PHASE I ENVIRONMENTAL SITE ASSESSMENT
ARRINGTON MANOR
2225 COLLEGE STREET
COLUMBIA, RICHLAND COUNTY, SOUTH CAROLINA 29205

D3G PROJECT NUMBER:
2025-001084

REPORT ISSUE DATE:
MAY 21, 2025

INSPECTION DATE:
MAY 15, 2025

PREPARED FOR:
COLUMBIA HOUSING
1917 HARDEN STREET
COLUMBIA, SOUTH CAROLINA

Brandon Vidra
Environmental Professional

Signature

Robert Hazelton
Principal

Signature

EXECUTIVE PROPERTY DESCRIPTION

Property: Arrington Manor
2225 College Street
Columbia, Richland County, South Carolina 29205

Site Description: The subject property consists of one (1) six-story age-restricted apartment structure constructed in 1971. The subject property structure contains a total of fifty-eight (58) residential dwelling units and is situated on approximately 0.94 acres of land. Located within the apartment structure are laundry facilities, office areas, a community room/kitchen, a maintenance shop, and mechanical areas. Exterior property improvements include sitting areas, landscaped regions, and asphalt parking areas. The subject property is serviced by electricity and municipally supplied water and sewer. The Sponsor is seeking tax credits through the South Carolina State Housing Finance and Development Authority (SCSHFDA).

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APPENDICES

1.0 EXECUTIVE SUMMARY

The following table summarizes the conclusions and opinions representing Dominion Due Diligence Group's (D3G's) best professional judgment based on information accessed during the course of this investigation. D3G performed a Phase I Environmental Site Assessment that included subject property observations of the Arrington Manor on May 15, 2025 located at 2225 College Street in Columbia, Richland County, South Carolina (subject property).

EVALUATED CONDITIONS	SECTION REFERENCE	ACCEPTABLE	RECOMMENDED RESPONSE ACTION
STANDARD ENVIRONMENTAL RECORDS REVIEW	5.1		(1)
UNREGULATED UNDERGROUND STORAGE TANK(S) (UST)	6.3	YES	
PAST INDUSTRIAL/DETRIMENTAL OPERATIONS	5.4 5.5	YES	
VAPOR ENCROACHMENT CONDITION	5.6		(1)
STORED HAZARDOUS MATERIALS	6.3 6.4	YES	
POLYCHLORINATED BIPHENYLS (PCBS)	6.3 6.4	YES	
ABOVEGROUND STORAGE TANK(S) (AST)	6.3 6.4	YES	
DUMPING, LANDFILLS	6.3	YES	
HAZARDOUS RUN-OFF	6.3	YES	
ASBESTOS-CONTAINING MATERIALS	8.1		(2)
LEAD-BASED PAINT	8.2	YES	
RADON GAS	8.3	YES	
FLOOD ZONE	8.4	YES	
WETLANDS	8.5		(3)
OTHER: MOLD	8.6		(4)

(1) Soil gas volatile chemical levels should be used to estimate the contribution of soil gas VI sources to indoor air levels. Confirmation sampling (i.e., an additional or additional rounds) may need to be conducted to estimate the contribution from the environmental release. If soil gas samples exceed screening values and buildings are within one hundred (100) feet of the sample location for nonpetroleum vapor-forming chemicals and within thirty (30) feet of PHC vapor-forming chemicals, then sub-slab vapor samples and/or indoor air samples should be collected to further evaluate the vapor intrusion risk pathway. Therefore, based on the results of the EPA VISL calculator indicating calculated estimated site-specific Indoor Air Concentrations of Select VOC (Benzene) above the applicable USEPA VISL for Target Indoor Air Concentrations, D3G concludes that the elevated levels of Select VOC (Benzene) identified within the soil gas samples collected from SG-1 through SG-3 potentially represents a VIC to existing/future tenants within 2225 College Street as investigated during this Limited Phase II ESA investigation with further Tier 2 investigations warranted (ASTM E 2600-22). However, it should be noted, the USEPA VISL model is a conservative screening tool and does not account for building foundation type, size, soil gas entry rates, building exchange rates, soil type, porosity, moisture, vertical and/or lateral inclusion zones from the source and/or chemical volatilization from groundwater. Therefore, D3G recommends a quantitative sub-slab sampling (Point of Entry to Receptor) to be conducted at the subject property (prior to disposition) further outlined herein. The supplemental quantitative Tier II invasive Vapor Encroachment Screen (VES)/supplemental vapor intrusion risk-based screening assessment is to be conducted on the subject property for the identified VEC including but not limited to sub-slab soil vapor and indoor air quality sampling

within the structures located within the area of SG-1 through SG-3 (2225 College Street) for Select VOC (Benzene).

The vapor intrusion risk-based screening will be utilized to support and evaluate human health risk using supplemental individual subsurface data (e.g., sub-slab vapor and indoor air concentrations), which would consider the magnitude of the concentration exceedance of the USEPA VISLs as outlined within SCDHEC Quality Assurance Program Plan for the UST Management Division — Revision Number 4.0, dated July 2020. The supplemental investigation will be utilized as a baseline risk assessment of exposure to residential receptors, exposure pathways, toxicity of contaminants present at the site, further characterization of human health risks, impacts or risks to the environment and the further development of a site-specific CSM. In accordance with the Office of Solid Waste and Emergency Response (OSWER) Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Vapor Sources to Indoor Air — OSWER Publication 9200.2-2-154, dated June 2015, multiple lines of evidence are particularly important for supporting "no-further-action" decisions regarding the vapor intrusion pathway (e.g., pathway incomplete determinations) to reduce the chance of reaching a false-negative conclusion (i.e., concluding vapor intrusion does not pose unacceptable human health risk, when it poses an unacceptable human health risk, when it does not).

(2) Prior to renovation activities, a comprehensive asbestos inspection which includes sampling of all materials to be impacted by renovation activities and an inspection of 100% of the units should be conducted at the subject property by an appropriately licensed asbestos inspector in accordance with State of South Carolina asbestos regulations. Any ACMs which are to be impacted during the renovation activities should be removed by a licensed asbestos abatement contractor in accordance with applicable regulations. Any remaining ACMs and/or PACMs should be managed under the site-specific Operations and Maintenance (O&M) Program prepared by D3G dated March 6, 2024. The O&M Program should be updated to reflect any additional inspection and subsequent abatement activities.

(3) D3G recommends that the remainder of Exhibit W (i.e. a wetland determination/delineation) be completed by the Development Owner certify if there are potential jurisdictional and non-jurisdictional wetlands on-site.

(4) D3G recommends contracting an experienced professional to evaluate and remediate the observed mold and moisture intrusion as part of the Scope of Work for the project in accordance with applicable local, state, and federal regulations.

2.0 INTRODUCTION

2.1 Purpose

Columbia Housing contracted Dominion Due Diligence Group (D3G) to perform a Phase I Environmental Site Assessment (ESA) of the Arrington Manor located at 2225 College Street in Columbia, Richland County, South Carolina (subject property). As such, Columbia Housing is considered the "User" of this report as defined under ASTM Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process Designation: E 1527-21 (ASTM E 1527-21). The South Carolina State Housing Finance and Development Authority (SCSHFDA) is considered an authorized User of this Phase I ESA.

The purpose of the Phase I ESA is to provide all appropriate inquiry into the previous ownership and uses of the subject property and to identify recognized environmental conditions (RECs), which are (1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment. In addition, the Phase I ESA includes the identification of controlled recognized environmental conditions (CRECs), historical recognized environmental conditions (HRECs), and de minimis conditions. CRECs are RECs affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to implementation of required controls (for example, activity and use limitations or other property use limitations). HRECs involve a previous release of hazardous substances or petroleum products affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the subject property to any controls (for example, activity and use limitations or other property use limitations). An HREC is not a REC. De minimis conditions generally do not present a threat to human health or the environment and generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. A de minimis condition is not a REC nor a CREC. For the purposes of this reporting, D3G defines "environmental concerns" as de minimis conditions and non-scope considerations for which further action is recommended.

In addition, this report assesses non-scope considerations as directed by the client. Factual information regarding on-site business operations, conditions, and historical data provided to D3G is assumed to be correct and complete.

This investigation was conducted in accordance with ASTM E 1527-21 published guidelines, 40 CFR Part 312, Standards and Practices for All Appropriate Inquiries: Final Rule, South Carolina State Housing Finance and Development Authority (SCSHFDA) environmental reporting requirements, and accepted Phase I ESA industry standards.

2.2 Detailed Scope of Services

The ASTM E 1527-21 scope of work for this Phase I ESA consisted of the following:

- site reconnaissance of the subject property and a visual survey of the adjacent properties to evaluate the potential for RECs;
- review of applicable and reasonably ascertainable information about the subject property, including aerial photography, USGS topographic map, state and federal databases, Sanborn maps, property assessment information and other governmental sources that are publicly available, practically reviewable, and obtainable within reasonable time and cost constraints;
- interviews with selected individuals knowledgeable about the subject property and vicinity properties; and
- if provided, a review of existing environmental reports documenting previous assessment and remediation efforts completed at the subject property.

D3G also evaluated the following ASTM Non-Scope Considerations in accordance with South Carolina State Housing Finance and Development Authority (SCSHFDA) 2025 Qualified Allocation Plan (QAP), including, but not limited to, Tier 1 Vapor Encroachment Screening in general compliance with ASTM Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions Designation: E 2600-22, asbestos-containing materials, lead-based paint, radon gas, floodplain hazards, and wetlands.

This Phase I ESA did not include the collection or analysis of soil or groundwater samples.

2.3 Significant Assumptions

Factual information regarding on-site business operations, conditions, and historical data provided to D3G is assumed to be correct and complete. D3G assumes no responsibility for hidden or latent conditions or misrepresentation, or inaccurate information provided, by the property owner, its representatives, public information officials or any authority consulted in connection with the compilation of this report.

D3G assumes that all information provided by Environmental Data Resources, Inc. (EDR) regarding the regulatory status of facilities within the approximate minimum search distance is complete, accurate and current.

D3G assumes no responsibility for differing opinions or interpretations by client or governmental or regulatory agencies of controlling laws, standards, or regulations provided D3G's services were performed in a professional manner.

2.4 Limitations and Exceptions

D3G encountered the following limitations, exceptions, and/or data gaps during the performance of this Phase I ESA:

- Our on-site observations pertain only to specific locations at specific times on specific dates. This report and conclusions herein are based upon data collection between May 9, 2025 and May 21, 2025. Our observations and conclusions do not reflect variations in conditions that may exist, in unexplored areas of the site, or at times other than those represented by our observations.
- In order for the prospective purchaser to claim protection from CERCLA liability as an innocent landowner, bona fide prospective purchaser, or contiguous property owner, the acquisition of the subject property should be completed within 180 days after the subject property inspection date.
- Accordingly, the professional services rendered by D3G are valid for a period of 180 days.
- According to 40 CFR Part 312, Standards and Practices for All Appropriate Inquiries: Final Rule, CERCLA liability rests with the owner or operator of a property and not with an environmental professional hired by the prospective landowner and who is not involved with the ownership or operation of the property.
- This report meets the requirements set forth in 40 CFR Part 312 Standards and Practices for All Appropriate Inquiries: Final Rule. However, in order to qualify for certain landowner liability protections under CERCLA, Bona Fide Prospective Purchasers, Contiguous Property Owners, and/or Innocent Landowners must meet additional requirements in 101(35)(B) of CERCLA (42 U.S.C. 9601(35)) of the Federal Register.
- No significant data gaps in historical information were identified that would impact D3G's ability to identify RECs. Collectively the sources considered and consulted during the course of this assessment allowed D3G to adequately determine the subject property history. Therefore, these data gaps are not considered to be significant.
- Historical information was not reasonably ascertainable to the subject property's first developed use. D3G obtained historical information to 1919 at which time the subject property was developed with a residential structure. Due to the residential nature of the subject property and surrounding area in 1919, this limitation is not significant.

2.5 Special Terms and Conditions

This investigation was conducted in accordance with ASTM E 1527-21 published guidelines and 40 CFR Part 312, Standards and Practices for All Appropriate Inquiries: Final Rule and South Carolina State Housing Finance and Development Authority (SCSHFDA) environmental protocols.

2.6 User Reliance

This report has been prepared for, and can be relied upon by the Client, Columbia Housing and the South Carolina State Housing Finance and Development Authority (SCSHFDA) This report is not to be relied upon or reproduced, either in whole or in part, without written consent from D3G.

3.0 SUBJECT PROPERTY DESCRIPTION

3.1 Location and Legal Description

The subject property is located at 2225 College Street in Columbia, Richland County, South Carolina and contains a total of approximately 0.94 acres of land. The subject property is situated at an elevation of approximately 240-260 feet above mean sea level and is located at Latitude, 34.002639 and Longitude, -81.014038.

MUNICIPAL PARCEL IDENTIFIER	MUNICIPAL PARCEL NUMBER
TAX MAP NUMBERS	R11409-02-18 and R11409-02-19

SOURCE - Richland County assessment documents

A copy of the tax cards and a map illustrating the legal property boundary is included in Appendix A of this report.

3.2 Site and Vicinity General Characteristics

The subject property is located in an area of residential and light commercial development and undeveloped land.

3.3 Current Use of the Subject Property

The subject property is currently utilized as an age-restricted apartment complex.

3.4 Description of Structures, Roads, and Other Improvements

The following section describes general conditions and features as noted during D3G's inspection:

GENERAL SITE DESCRIPTION AND IMPROVEMENTS	
SUBJECT PROPERTY ACREAGE	Approximately 0.94 acres
BUILDING(S) DESCRIPTION	One (1) six-story age-restricted apartment structure
ADJOINING ROADS	College Street and Oak Street
CONSTRUCTION DATE(S)	1971
EXTERIOR IMPROVEMENTS	Seating areas, landscaped regions, and asphalt parking areas
UNIMPROVED AREAS	NA

3.4.1 Subject Property Utilities

SUBJECT PROPERTY UTILITIES	
ELECTRICITY	Dominion Energy
NATURAL GAS	NA
WATER	Columbia Water
SANITARY SEWER	Columbia Water
INDUSTRIAL WASTEWATER	NA
SOLID WASTE	Waste Management

HEATING SOURCE	AGE
Electricity	1971 - current

COOLING SOURCE	AGE
Electricity	1971 - current

In addition, the facility features a back-up emergency generator with a self-contained 700-gallon diesel aboveground storage tank (AST), which is discussed further in Section 6.3 of this report.

3.5 Current Uses of Adjoining Properties

DIRECTION	LAND USAGE
NORTH	Single-family residential and undeveloped grassland
SOUTH	College Street, single-family residential, and undeveloped grassland
EAST	Oak Street and single-family residential
WEST	Single-family residential

See Appendix B for a copy of the Site Plan, which identifies subject property structure(s) and general vicinity characteristics.

4.0 USER PROVIDED INFORMATION

4.1 Title Records

PARCEL IDENTIFICATION	OWNER	PURCHASE DATE	DEED BOOK/PAGE
R11409-02-18	Housing Authority of the City of Columbia	01/01/1980	D0522/0851
R11409-02-19	Housing Authority of the City of Columbia	01/01/1979	D0522/0848

SOURCE - Richland County assessment documents

Due to the nature of the tax assessment documents and deed records, a thorough chain-of-title was not reasonably ascertainable.

4.2 Environmental Liens or Activity and Use Limitations (AULs)

It is the User's responsibility to provide D3G with information pertaining to environmental liens or AULs. According to information provided in the completed User Questionnaire, there are no environmental liens or AULs associated with the subject property.

4.3 Specialized Knowledge

According to the completed User Questionnaire, the Current Landowner Representative did not indicate to D3G that they were aware of any specialized knowledge or experience that is material to recognized environmental conditions in connection with the subject property. The Current Landowner Representative was unaware of any environmental liens or activity use limitations (AULs) encumbering the property or in connection with the subject property.

4.4 Commonly Known or Reasonably Ascertainable Information

The Current Landowner Representative did not indicate to D3G, in the completed User Questionnaire, that they were aware of commonly known or reasonably ascertainable information within the local community about the property that is material to recognized environmental conditions in connection with the property.

4.5 Valuation Reduction for Environmental Issues

According to the completed User Questionnaire, the Current Landowner Representative indicated the subject property is being seeking tax credits through the South Carolina State Housing Finance and Development Authority (SCSHFDA) and there is no valuation reduction for environmental issues pertaining to the subject property.

4.6 Owner, Property Manager, and Occupant Information

The subject property is currently owned by the Housing Authority of the City of Columbia and the Current Landowner questionnaire is discussed further in Sections 7.1 and 7.2. Ms. Robin Hudson, Development Compliance Manager with the Housing Authority of the City of Columbia is the current Key Site Manager and the questionnaire is discussed further in Section 7.4.

4.7 Reason For Performing Phase I ESA

The user informed D3G that the Phase I ESA is being performed because the subject property is seeking tax credits through the South Carolina State Housing Finance and Development Authority (SCSHFDA).

4.8 Previous Environmental Reports

D3G was not provided additional information from the user.

5.0 RECORDS REVIEW

5.1 Standard Environmental Records Sources

5.1.1 State Regulatory Records

DATABASE	SEARCH DISTANCE
STATE AND TRIBAL LEAKING STORAGE TANK DATA (LUST/LAST)	0.50 Mile
STATE AND TRIBAL STORAGE TANK DATA (UST/AST)	0.25 Mile
STATE AND TRIBAL VOLUNTARY CLEANUP PROGRAM SITES (VCP)	0.50 Mile
STATE AND TRIBAL BROWNFIELD SITES (BROWNFIELDS)	0.50 Mile
STATE AND TRIBAL HAZARDOUS WASTE SITES (SHWS)	1.00 Mile
STATE AND TRIBAL INSTITUTIONAL/ENGINEERING CONTROLS (IC/EC)	0.125 Mile
STATE AND TRIBAL REGISTERED SOLID WASTE LANDFILLS (SWL)	0.75 Mile

Source - State of South Carolina governmental records accessed by Environmental Data Resources Inc. (EDR)

Arrington Manor High Rise (the subject property), located on-site at 2225 College Street, is identified as a LUST incident and UST facility in the EDR Report. According to the UST listing, the facility (Facility ID:07323) is associated with one (1) 560-gallon abandoned diesel underground storage tank (UST). No information regarding the age of the UST was included in the EDR Report. According to the LUST listing (Facility ID #07323), a release of diesel was reported on December 20, 1991. Clean up was initiated November 23, 1992 and a No Further Action letter was issued on January 13, 1993. D3G submitted a FOIA request with the South Carolina Department of Health and Environmental Control (SCDHEC) to obtain records regarding the on-site LUST incident and UST facility. However, SCDHEC responded that no files were available for the on-site facility. Therefore, D3G requested that the Columbia Housing Authority provide any and all documentation related to the on-site UST facility and LUST incident. However, no information was available for review. Therefore, to determine if the LUST incident involving one (1) 560-gallon abandoned diesel UST has negatively affected the environmental integrity of the subject property, and to assess whether there has been a release of hazardous substances at levels that would exceed the Statewide screening-level criteria (de minimis levels), D3G performed a Limited Phase II ESA on March 15, 2024. The Limited Phase II ESA is discussed further in Section 5.6.1.

Recommendations are listed in Section 11.0 of this report.

The remaining state-regulated facilities are not located on-site or adjacent and are not of environmental concern to the subject property. The closest remaining record is located approximately 0.058 miles to the southwest and presumed hydrogeologically down-gradient from the subject property. Based on the listed distances, presumed hydrogeologic relationships and/or current regulatory statuses, the remaining state-regulated facilities are not suspected to have negatively impacted the environmental integrity of the subject property.

Please note that D3G additionally performed a Tier 1 Vapor Encroachment Screen (VES) in compliance with ASTM E 2600-22 "ASTM Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions" as amended, which is discussed in further detail in Section 5.6 and supported by the Non-Invasive Tier 1 VES located in Appendix E. Regulatory database listings that require further evaluation are discussed as necessary.

5.1.2 Federal Regulatory Records

DATABASE	SEARCH DISTANCE
EPA NATIONAL PRIORITIES LISTING (NPL - SUPERFUND)	1.00 Mile
EPA NATIONAL PRIORITIES LISTING (NPL - DELISTED SITES)	0.50 Mile
EPA SUPERFUND ENTERPRISE MANAGEMENT SYSTEM (SEMS)	0.50 Mile
EPA SEMS ARCHIVED SITES (SEMS-ARCHIVE)	0.50 Mile
EPA RESOURCE CONSERVATION AND RECOVERY ACT (RCRA)	0.25 Mile
EPA RCRA TREATMENT, STORAGE, AND DISPOSAL (TSD)	0.50 Mile
FEDERAL INSTITUTIONAL/ENGINEERING CONTROLS (IC/EC)	0.125 Mile
EPA EMERGENCY RESPONSE NOTIFICATION-SITES (ERNS)	0.15 Mile
EPA RCRA CORRECTIVE ACTION REPORT (CORRACTS)	1.00 Mile

SOURCE - Environmental Protection Agency records accessed by Environmental Data Resources Inc. (EDR)

The US BROWNFIELDS and RCRA-VSQG facilities are not located located on-site or adjacent and are not of environmental concern to the subject property. The closest record is located approximately 0.153 miles northeast and presumed hydrogeologically up-gradient from the subject property. Based on the listed distances, presumed hydrogeologic relationship, and/or current regulatory status, the vicinity federally-regulated facilities are not suspected to present environmental concerns to the subject property.

Please note that D3G additionally performed a Tier 1 Vapor Encroachment Screen (VES) in compliance with ASTM E 2600-22 "ASTM Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions" as amended, which is discussed in further detail in Section 5.6 and supported by the Non-Invasive Tier 1 VES located in Appendix E. Regulatory database listings that require further evaluation are discussed as necessary.

5.1.3 Non-Geocoded Sites

No non-geocoded sites were determined to be located within the applicable search radius for ASTM E 1527-21.

5.2 Additional Environmental Record Sources

Thirty-one (31) additional environmental records were identified in the EDR Report.

Arrington Manor High Rise (subject property), located on-site at 2225 College Street, is listed as an RGA LUST incident and UST FINDER and UST FINDER RELEASE listing in the EDR Report. The RGA LUST database is a Recovered Government Archive Leaking Underground Storage Tank database. According to the EDR Report, the property is listed in 1992, 1997, 2000, 2001, and 2003-2012. The on-site UST facility and LUST incident is discussed in further detail in Sections 5.1.1 and 5.6.1.

The remaining additional environmental records were not located on-site or adjacent and are not of environmental concern to the subject property. Based on the listed distances, presumed hydrogeologic relationships, and/or current regulatory statuses, the vicinity additional environmental records are not suspected to present environmental concerns to the subject property.

5.3 Physical Setting Sources

5.3.1 Topography and Regional Surface Water

TOPOGRAPHY AND REGIONAL SURFACE WATER	
ELEVATION (feet above mean sea level)	240-260
SLOPE	South-southeast
APPROXIMATE GROUNDWATER FLOW	South-southwest
REGIONAL SURFACE WATER	An intermittent tributary of the Congaree River is located approximately 0.09 miles to the south-southeast of the subject property and flows to the southwest and the Congaree River is located approximately two (2) miles to the west and flows to the southeast.

SOURCE - USGS Topographic Quadrangle - Columbia North, South Carolina 2024

Located in Appendix A is a topographic map depicting subject property elevations and drainage patterns. Depth to groundwater fluctuates depending on hydrological and weather conditions.

On-site drainage at the subject property is suspected to consist of flow along the asphalt parking areas to strategically located storm drains and surface percolation in the unpaved areas.

5.3.2 Soil Characteristics

According to the Natural Resources Conservation Service (NRCS) Web Soil Survey, accessed at http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx, the subject property consists of two (2) soil types: Orangeburg-Urban land complex and urban land. The Orangeburg soil types does not meet hydric criteria. Urban land consists of nearly level to moderately sloping areas where more than 85 percent of the surface is covered by asphalt, concrete, buildings, or other impervious surfaces. Further detail about the remaining soil types is included in Appendix A.

According to the South Carolina State Housing Finance and Development Authority (SCSHFDA) 2024 Qualified Action Plan (QAP), all new construction developments and rehabilitation projects adding a new building must submit a complete site-specific Geotechnical soil report and boring site plan not more than one (1) year old at the time of full application. Based on the fact that the rehabilitation project is not adding a new building, D3G does not believe a Geotechnical Soil Report is required at this time.

5.4 Historical Use Information on the Subject Property

5.4.1 Review of Aerial Photographs

D3G reviewed aerial photographs from 1938, 1943, 1951, 1955, 1964, 1966, 1971, 1981, 1983, 1994, 2006, 2011, 2015, and 2019. According to the reviewed information, the subject property was originally depicted as single-family residential properties, until prior to conversion to the existing land use as age-restricted residential. No environmental concerns were identified on the subject property based upon a review of the aerial photography.

A copy of the aerial photography is included in Appendix D of this report.

5.4.2 Fire Insurance Maps

D3G reviewed Sanborn Fire Insurance Maps from 1919, 1950, 1956, 1965, and 1969. It should be noted that the subject property is only partially depicted in the 1956 Sanborn Map. According to the reviewed information, the subject property was originally depicted as one (1) residential dwelling. Additional dwellings and associated outbuildings were constructed on the subject property prior to 1950 and remained unchanged through 1965. The subject property was not depicted on the 1969 Sanborn. No environmental concerns were identified on the subject property based upon a review of the Sanborn Fire Insurance Maps. A copy of the Certified Sanborn Map Report is included in Appendix D.

5.4.3 Local Street Directories

Based on the reviewed historical information outlined in Sections 5.4.1 and 5.4.2, the EP has determined that a review of historical local street directories will not provide any additional insight into the historic usage of the subject property. Therefore, a historical local street directories records review was not conducted.

5.4.4 Historical Topographic Maps

Based on the reviewed historical information outlined in Sections 5.4.1 and 5.4.2, the EP has determined that a review of historical topographic maps will not provide any additional insight into the historic usage of the subject property. Therefore, a historical topographic maps records review was not conducted.

5.4.5 Other Historical Sources

No additional historical sources were reasonably ascertainable.

5.4.6 Summary of Subject Property History

According to the reviewed subject property historical information, the subject property consisted of single-family residential structures from at least 1919 through at least 1966, prior to the construction of the existing age-restricted residential structure in 1971.

None of the accessed data depicts underground storage tanks (USTs) at the former structures; however, there exists the possibility that the former structures utilized underground or aboveground storage tanks (USTs/ASTs). No visual evidence of USTs (fill ports/vent pipes) or ASTs was observed during the subject property inspection. If ASTs or USTs were formerly located at the subject property, they should have been removed during the demolition of the structures.

5.5 Historical Use Information on Adjoining Properties

5.5.1 Review of Aerial Photographs

D3G reviewed aerial photographs from 1938, 1943, 1951, 1955, 1964, 1966, 1971, 1981, 1983, 1994, 2006, 2011, 2015, and 2019. According to the reviewed information, the adjacent properties have consisted of residential properties. No environmental concerns were identified on the adjacent properties based upon a review of the aerial photography.

A copy of the aerial photography is included in Appendix D of this report.

5.5.2 Fire Insurance Maps

D3G reviewed Sanborn Fire Insurance Maps from 1919, 1950, 1956, 1965, and 1969. Portions of the adjacent properties are not depicted on the 1919 and 1969 Sanborn. According to the reviewed information, the adjacent properties have consisted of undeveloped vacant lots and residential properties. No environmental concerns were identified on the adjacent properties based upon a review of the Sanborn Fire Insurance Maps. A copy of the Certified Sanborn Map Report is included in Appendix D.

5.5.3 Local Street Directories

Based on the reviewed historical information outlined in Sections 5.5.1 and 5.5.2, the EP has determined that a review of historical local street directories will not provide any additional insight into the historic usage of the adjoining properties. Therefore, a historical local street directories records review was not conducted.

5.5.4 Historical Topographic Maps

Based on the reviewed historical information outlined in Sections 5.5.1 and 5.5.2, the EP has determined that a review of historical topographic maps will not provide any additional insight into the historic usage of the adjoining properties. Therefore, a historical topographic maps records review was not conducted.

5.5.5 Other Historical Sources

No additional historical sources were reasonably ascertainable.

5.6 Tier 1 Vapor Encroachment Screening

D3G performed a Tier 1 Vapor Encroachment Screen (VES) in compliance with ASTM E 2600-22 "ASTM Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions" as amended. The purpose of the Tier 1 VES is to conduct an initial screen to determine if a Vapor Encroachment Condition (VEC) exists in connection with the subject property. A VEC is defined as the presence or likely presence of chemical(s) of concern (COC) vapors in the subsurface (vadose zone) of the subject property caused by the release of vapors from contaminated soil and/or groundwater either on or near the subject property, as identified by Tier I and/or Tier II procedures.

The VES process is a two (2)-tiered screening process. The Tier 1 VES is based upon information typically collected during an ASTM Standard E 1527 Phase I ESA and is typically focused on known or suspected contaminated properties that may exist within the area of concern (AOC). D3G reviewed standard environmental record sources including, but not limited to, local, state, tribal and/or federal (LSTF) government records, as reported in the regulatory database report; chemical use and historical records of prior uses on the subject property and within proximity of the subject property; soil characteristics; geological characteristics; contaminant characteristics and plume migration data (if this data is readily available); significant conduits that that might provide preferential pathways for vapor migration; and groundwater depth and groundwater flow data to identify known or suspected sources of contamination within the AOC.

According to ASTM E 2600-22, the AOC is defined by the approximate minimum search distance which is based upon the chemical of concern (i.e. petroleum hydrocarbons vs. non-petroleum hydrocarbons) and the location of a known or suspected source of

contamination with respect to the subject property. The Tier 1 screening includes: (1) a search distance test to determine whether there are any known or suspect contaminated properties within the AOC; and (2) COC Test to determine for those known or suspect contaminated properties within the AOC whether COCs are likely to be present in order to evaluate the likelihood that a VEC exists at the subject property. If information related to the boundaries of a contaminant plume from known contaminated properties is available, a critical distance test may be conducted. The critical distance is defined as the lineal distance between the nearest edge of the contaminant plume and the nearest subject property boundary. The critical distance is equal to one hundred (100) feet for COC or thirty (30) feet for dissolved petroleum hydrocarbon COCs. The critical distance for petroleum hydrocarbon COCs as light non-aqueous phase liquid (LNAPL), such as gasoline product(s), is one hundred (100) feet. If groundwater flow direction can be estimated, the AOC in the down-gradient direction may be reduced to the area within the critical distance during the Tier 1 screening. Additionally, the cross-gradient direction may be reduced to the critical distance plus one half of a reasonable estimation of the contaminated plume width or three hundred sixty-five (365) feet. It is not necessary to obtain information regarding the contaminant plume dimensions for down-gradient and cross-gradient contaminated properties, as the critical distance is measured from the nearest subject property boundary directly to the source on the off-site down-gradient property that is the origin of the contamination (with the contamination migrating away from the subject property).

For a contaminated property located up-gradient of the subject property, the critical distance determination requires knowledge of the length and depth of the groundwater contaminant plume. Such information is required to determine the lineal distance from the groundwater contaminant plume edge to the nearest existing or planned structure on the subject property, or the nearest subject property boundary if there are no existing or planned structures on the subject property. Data related to contaminant plume characteristics and dimensions associated with off-site contaminated properties is not typically available during the Tier 1 screening process and is typically obtained during the Tier 2 screening process. If it is not possible to conservatively estimate contaminant plume dimensions, then the AOC cannot be reduced in up-gradient directions during the Tier 1 screening process. Data regarding site-specific soil characteristics may also be used to adjust the AOC. Low permeability cohesive soils, such as soils high in clay and/or silt percentage content, generally tends to restrict soil gas movement, as may soil with high moisture content. Conversely, high porosity in soil tends to enhance soil gas movement. If known, this data may be utilized as a basis to either expand or reduce the AOC by the environmental professional.

The conclusions from the Tier 1 screening is: (1) a VEC exists or (2) a VEC does not exist. If a VEC does not exist, then the VES process is considered complete in accordance with the guidelines set forth under ASTM Standard E 2600-22. If a VEC exists at the subject property, the environmental professional should determine if the VEC represents a Recognized Environmental Condition (REC). If the VEC represents a REC, then further action or investigation may be recommended, including but not limited to a Tier 2 (invasive and/or non-invasive) screening and/or mitigation. If a VEC exists as determined by the Tier 1 screening process, then a more refined Tier 2 VES (non-invasive) may be completed in order to further evaluate the VEC. Tier 2 (non-invasive) focuses on characteristics of the contaminant plume associated with contaminated properties and the proximity of said contaminant plume to the subject property. This data is not typically available during the Tier 1 screening process and is typically obtained from state regulatory files and may also be obtained from other available documents and/or may be collected via sampling. Tier 2 (invasive) applies numeric screening criteria to existing or newly collected soil, soil gas, and/or groundwater testing results to further evaluate and/or validate the potential VEC.

5.6.1 Subject Property VEC Evaluation

Based on a review of the EDR Report, the subject property is not identified in the Federal Records Search. In addition, according to a review of subject property historical use information that is reasonably ascertainable, there are no known or suspect potentially contaminated sources having chemicals of concern (petroleum hydrocarbons or non-petroleum hydrocarbons) associated with the subject property. However, the subject property is identified in the State Records Search.

Arrington Manor High Rise (the subject property), located on-site at 2225 College Street, is identified as a LUST incident and UST facility in the EDR Report. According to the UST listing, the facility (Facility ID:07323) is associated with one (1) 560-gallon abandoned diesel underground storage tank (UST). No information regarding the age of the UST was included in the EDR Report. According to the LUST listing (Facility ID #07323), a release of diesel was reported on December 20, 1991. Clean up was initiated November 23, 1992 and a No Further Action letter was issued on January 13, 1993. D3G submitted a FOIA request with the South Carolina Department of Health and Environmental Control (SCDHEC) to obtain records regarding the on-site LUST incident and UST facility. However, SCDHEC responded that no files were available for the on-site facility. Therefore, D3G requested that the Columbia Housing Authority provide any and all documentation related to the on-site UST facility and LUST incident. However, no information was available for review. Therefore, to determine if the LUST incident involving one (1) 560-gallon abandoned diesel UST has negatively affected the environmental integrity of the subject property, and to assess whether there has been a release of hazardous substances at levels that would exceed the Statewide screening-level criteria (de minimis levels), D3G performed a Limited Phase II ESA on March 15, 2024, which included the advancement of three (3) soil borings with the collection of subsurface soil (SB-1, SB-2, and SB-3) for laboratory analysis. In addition, three (3) soil gas borings were advanced for the collection of soil gas samples (SG-1, SG-2, and SG-3), and one (1) outdoor (ambient) air sample (OA-1) was also taken. Subsurface soil samples were analyzed for Select Volatile Organic Compounds (VOCs) via EPA Method 8260/8011 and Polycyclic Aromatic Hydrocarbons (PAHs) via Environmental Protection Agency (EPA) Method 8270-SIM. Soil gas samples were analyzed for Select VOCs via EPA Method TO 15. Borings were advanced to an approximate depth of six (6) to seven (7) feet below ground surface (bgs) to locate a water bearing zone with sufficient recharge for groundwater sample collection.

East Coast Geophysics reported to the Arrington Manor property in Columbia, South Carolina (subject property) on March 15, 2024, to perform a geophysical and ferromagnetic survey within the immediate vicinity of the LUST incident involving one (1) 560-gallon abandoned diesel UST. The property was further surveyed with the GPR and no evidence of a UST was observed. There were some apparent disturbed soils in the area where borings were pre-cleared, but no definitive evidence of a tank grave was observed. Furthermore, East Coast Geophysics investigated the boiler room for evidence of an UST such as vent/fill pipes, asphalt patches, and/or ground depressions. No evidence of a UST was observed on the property.

To evaluate the VEC from the identified RECs at the subject property associated with the LUST incident involving one (1) 560-gallon abandoned diesel UST, D3G conducted a Vapor Encroachment Screen (VES)/risk-based screening assessment (Tier II Invasive Screen) on the subject property. D3G advanced three (3) exterior soil gas borings at the subject property for the installation of deep subsurface soil gas samples (SG-1 through SG-3), which were advanced and installed at a depth of five (5) feet below ground surface. Subsurface soils were collected (US EPA grab and 5035 sampling methodologies) continuously with disposable clear acetate liners and were screened in the field with a photoionization detector (PID) to indicate the presence of VOCs. In addition, D3G collected one (1) outdoor (ambient) air sample from upwind of the subject property and away from any potential VOC sources to account for

potential background influences. The sample was submitted to a South Carolina accredited laboratory under appropriate chain-of-custody procedures and analyzed for Select VOCs via EPA Method TO 15.

Temporary groundwater sampling points were initially proposed to be installed within soil borings (SB-1 through SB-3) using hydraulically driven direct-push sampling equipment. However, during borehole advancement, no observed water bearing zone was observed at depths measured at six (6) to seven (7) feet. D3G concludes that any potential or perceived groundwater contamination attributed to the LUST incident involving one (1) 560-gallon abandoned diesel UST is unlikely based on the subsurface conditions encountered as part of this Limited Phase II ESA subsurface investigation. Therefore, a VEC is unlikely to exist attributed to the groundwater exposure pathway beneath the subject property within the areas of SB-1 through SB-3 as investigated as part of this Limited Phase II ESA.

Subsurface Soil Sampling Analytical Results

Field Observations: No visual or olfactory evidence of soil contamination (free product, staining and/or odor) was observed during the advancement of soil borings SB-1 through SB-3. PID readings taken during the soil screening process ranged from 0.0 to 0.2 parts per million (ppm).

Select VOCs: No concentrations of Select VOCs analyzed within subsurface soil samples collected from SB-1 through SB-3 were identified above their respective laboratory reporting limits, above their applicable most stringent SCDHEC Risk Based Screening Levels (RBSLs) for soils, and/or the USEPA RSLs for Resident Soil .

PAHs: No concentrations of PAHs analyzed within subsurface soil samples collected from SB-1 through SB-3 were identified above their respective laboratory reporting limits, above their applicable most stringent SCDHEC RBSLs for soils and/or the USEPA RSLs for Resident Soil during this Limited Phase II ESA investigation.

Exposure Pathways: Based on the lack of visual and olfactory evidence of contamination as well as the subsurface soil laboratory analytical results indicating concentrations of Select VOCs and PAHs below their applicable, most stringent SCDHEC RBSLs for soils and/or the USEPA RSLs for Resident Soil within soil borings SB-1 through SB-3 during this Limited Phase II ESA investigation, D3G concludes that hazardous substances and petroleum constituents as defined by CERCLA have not been identified above Statewide, non-site specific criteria, and that a REC and a VEC does not exist on the subject property attributed to the LUST incident involving one (1) 560-gallon abandoned diesel UST within the areas investigated during this Limited Phase II ESA. Therefore, the exposure pathways for dermal contact, incidental ingestion, and inhalation for current/future residential receptors and/or construction/utility workers are considered incomplete.

Soil Gas Vapor Sampling Analytical Results

Field Observations: No evidence of contamination (petroleum/non-petroleum odors) was observed during the advancement of soil gas borings SG-1 through SG-3. PID readings taken during soil screening and temporary soil gas probe monitoring prior to sampling SG-1 through SG-3 ranged from 0.0 to 0.6 ppm during this Limited Phase II ESA Investigation.

Select VOCs: Elevated concentrations of Select VOC (Benzene) analyzed within the soil gas samples collected from soil gas sampling point SG-1 through SG-3 was identified above its respective laboratory reporting limits and above their applicable USEPA Sub-Slab and Near Source Soil Gas VISLs. Benzene was detected at 22.9 ug/m3 in SG-1, 51.7 ug/m3 in SG-2, and 19.2 ug/m3. All other concentrations of Select VOCs analyzed within soil gas samples collected from SG-1 through SG-3 were detected below their applicable laboratory reporting limits and/or below their applicable USEPA Sub-Slab and Near Source Soil Gas VISLs.

Outdoor (Ambient) Air Sampling Analytical Results

Field Observations: No olfactory or visual evidence of contamination (petroleum/non-petroleum odors) was observed during the placement of the outdoor (ambient) air sample (OA-1). PID readings of the outdoor (ambient) air, prior to soil gas sampling, was 0.0 ppm.

Select VOCs: An elevated concentration of Select VOC (Benzene) analyzed within the outdoor (ambient) air sample collected from outdoor (ambient) air sampling point OA-1 (0.87 ug/m3) was identified above its respective laboratory reporting limits and above their applicable SCDHEC RBSLs for Inhalation of vapors.

Exposure Pathways: VOC concentrations within the outdoor (ambient) air sampling point OA-1 were below the laboratory detection limits and the applicable SCDHEC RBSLs for Inhalation of vapors. However, elevated concentrations of Select VOC (Benzene) were identified within the outdoor (ambient) air sampling point OA-1 during this Limited Phase II ESA investigation. The outdoor (ambient) air sample was collected approximately 167 feet west of an active main road (College Street). The possibility exists that the elevated Benzene concentrations is a result of organic vapors, such as vehicle exhaust. Therefore, D3G concludes the exposure pathways for inhalation for future/current residential receptors and construction/utility workers are considered incomplete for outdoor (ambient) air vapor inhalation with the identified Benzene concentrations most likely due to automotive emissions due to the subject property's urban environment setting.

Vapor Intrusion Screening Level (VISL) Calculator

Based on the laboratory analytical results indicating elevated concentrations of Select VOC constituent (Benzene) identified within the soil gas sample collected from SG-1 through SG-3 above the applicable USEPA Target Sub-Slab and Near-source Soil Gas VISLs during this Limited Phase II ESA, D3G utilized the USEPA VISL Calculator to determine site-specific calculated Target Indoor Air Concentrations. The VISL calculator identifies chemicals that are sufficiently volatile and toxic to warrant an investigation of the soil gas intrusion pathway when they are present as subsurface contaminants. D3G input the elevated soil gas sampling analytical data and the recommended default attenuation factor for soil gas (0.03) into the USEPA VISL calculator to further evaluate calculated site-specific indoor air concentrations. After calculating estimated site-specific Target Indoor Air Concentrations from the soil gas analytical data, the estimated Target Indoor Air Concentrations were compared against the USEPA Resident Target Indoor Air VISLs, to determine if the identified soil gas concentrations will be detrimental to the residential structure indoor air and thus, pose a threat to the environment and to the health of existing or future tenants. The results of the EPA VISL calculator indicate calculated estimated site-specific Indoor Air Concentrations of Select VOC constituent (Benzene) above the applicable SCDHEC RBSLs for Inhalation of vapors. The calculated estimated indoor air benzene concentrations for SG-1 is 0.687 ug/m3; SG-2 is 1.66 ug/m3; and SG-3 is 0.576 ug/m3. Therefore, D3G concludes that the identified Select VOC constituent (Benzene) identified within soil gas samples SG-1 through SG-3 currently represents a VEC within the area investigated during the Limited Phase II ESA investigation with supplemental Tier II invasive investigation warranted (ASTM E 2600-22).

However, based on the subsurface soil samples collected from the subject property, no concentrations of Select VOC constituent (Benzene) were identified within the source media (soil and/or groundwater) beneath the AOCs; therefore, D3G suspects a potential vapor source migrating onto the subject property through preferential pathways (i.e. utility lines, etc.) and are most likely attributed to an off-site source. In addition, it should be noted, the USEPA VISL model is a conservative screening tool and does not account for building foundation type, size, soil gas entry rates, building exchange rates, soil type, porosity, moisture, vertical and/or lateral inclusion zones from the source and/or chemical volatilization from groundwater.

Conclusions
based on the subsurface soil samples collected from the subject property, no concentrations of Select VOC constituent (Benzene) was identified above the SCDHEC RBSLs for soils and/or the USEPA RSLs for Resident Soil within the areas investigated indicating a lack of source media (soil contamination) beneath the subject property, D3G suspects a potential vapor source migrating onto the subject property through preferential pathways (i.e. utility lines, etc.) and are most likely attributed to an off-site source. Based on the soil gas laboratory analytical results from samples collected from soil gas points SG 1 [22.9 ug/m3], SG-2 [51.7 ug/m3], and SG-3 [19.2 ug/m3] indicating the presence of Volatile Organic Compound (Benzene) above its applicable USEPA VISLs for Target Sub-Slab and Near-Source Soil-Gas Concentration (TR=1E 06, THQ=0.1) and/or SCDHEC RBSLs for Inhalation of vapors during this Limited Phase II ESA/Tier II Invasive Screen investigation, soil vapor beneath the Arrington Manor has been adversely affected with a Recognized Environmental Condition (REC) and Vapor Encroachment Condition (VEC) currently existing within subsurface media (soil gas) beneath the subject property within the areas investigated as part of the Limited Phase II ESA investigation.

Based on the exterior soil gas sampling analytical laboratory results obtained within the soil gas samples collected from SG-1 through SG-3 indicating elevated levels of (Benzene) above the applicable SCDHEC RBSLs for Inhalation of vapors, further investigation is warranted at the subject property.

Recommendations are listed in Section 11.0 of this report.

A copy of the D3G's Limited Phase II ESA is included in Appendix K.

5.6.2 Contaminated Properties within the Area of Concern

Based on a review of the EDR Report and a review of adjacent historical use information that is reasonably ascertainable, there are no records identified within the area of concern. Therefore, a Vapor Encroachment Condition (VEC) does not exist at the subject property from an off-site source.

6.0 SITE RECONNAISSANCE

6.1 Methodology and Limiting Conditions

D3G's site inspection consisted of visual observations along boundaries and various transects throughout the subject property. On the interior, common areas such as lobbies, hallways, utility rooms, recreation areas, maintenance and repair areas, and a representative sample of occupant spaces were observed. The adjacent properties were observed from the subject property and the boundaries of the subject property and public right-of-ways.

6.2 General Site Setting

The subject property consists of one (1) six-story age-restricted apartment structure constructed in 1971. The subject property structure contains a total of fifty-eight (58) residential dwelling units and is situated on approximately 0.94 acres of land. Located within the apartment structure are laundry facilities, office areas, a community room/kitchen, a maintenance shop, and mechanical areas. Exterior property improvements include sitting areas, landscaped regions, and asphalt parking areas. The subject property is serviced by electricity and municipally supplied water and sewer. The Sponsor is seeking tax credits through the South Carolina State Housing Finance and Development Authority (SCSHFDA).

6.3 Exterior Observations

6.3.1 Hazardous Materials and Petroleum Products

No bulk storage of hazardous materials or petroleum products were identified at the subject property.

6.3.2 Polychlorinated Biphenyls (PCBs)

Located at exterior locations of the property are one (1) pad-mounted electrical transformer and one (1) pole-mounted electrical transformer, which are owned and maintained by Dominion Energy. The on-site electrical transformers were affixed with "Non-PCB" stickers. In addition, leakage was not visually observed on or around the transformers and in their current physical condition they are not believed to present environmental concerns to the subject property.

6.3.3 Subject Property Dumped Materials/Landfills

No dumped debris was observed on-site during the subject property inspection.

6.3.4 Solid Waste Disposal

Located in designated areas of the property are two (2) solid waste dumpsters. No staining and/or visual signs of spillage were observed in the vicinity of the dumpsters during the subject property visit.

6.3.5 Spills/Stained Soils/Stained Pavement/Stressed Vegetation

Spills, stained soil and/or pavement, and stressed vegetation were not observed on-site during the subject property inspection.

6.3.6 Storage Tanks Not Previously Listed

Located at the subject property is one (1) approximately 700-gallon diesel aboveground storage tank (AST) which is utilized to fuel the emergency generator. The AST was located on a concrete slab and was observed to be in fair physical condition. Based on observed subject property conditions, the diesel AST is not suspected to present an environmental concern to the subject property.

6.3.7 Wells Not Previously Listed

Wells were not observed on-site during the subject property inspection.

6.3.8 Hazardous Runoff

Hazardous runoff was not observed on-site during the subject property inspection.

6.3.9 Pits, Ponds, or Lagoons

Pits, ponds, and lagoons were not observed on-site during the subject property inspection.

6.3.10 Odors

Evidence of adverse or suspicious odors was not detected during the subject property inspection.

6.4 Interior Observations

6.4.1 Hazardous Materials and Petroleum Products

No bulk storage of hazardous materials or petroleum products was identified at the subject property. However, paints and cleaning products are stored in the maintenance areas. None of the stored materials were observed to be leaking or to have had signs of major spillage. No floor drains or other potential receptors for the release of hazardous materials were observed within the areas of material storage. The on-site chemicals are commercially available, stored in limited quantities, and are not believed to present an environmental concern to the subject property.

6.4.2 Polychlorinated Biphenyls (PCBs)

Three (3) hydraulic elevators are located on the subject property. It is not known whether the hydraulic elevators contain regulated levels of PCBs; however, leakage was not observed at the time of the site visit. Therefore, the elevators and the associated equipment are not believed to present environmental concerns to the subject property.

One (1) hydraulic trash compactor is also located on the subject property. It is not known whether the trash compactor contains regulated levels of PCBs; however, leakage was not observed at the time of the site visit. Therefore, the trash compactor is not believed to present environmental concerns to the subject property.

6.4.3 Storage Tanks Not Previously Listed

No additional storage tanks were observed on-site during the subject property inspection.

6.4.4 Odors

Evidence of adverse or suspicious odors was not detected during the subject property inspection.

6.4.5 Drains and/or Sumps

Drains and/or sumps were not observed during the subject property inspection.

6.4.6 Pools of Liquid

Pools of liquid were not observed during the subject property inspection.

7.0 INTERVIEWS

7.1 Prospective Landowner/User Questionnaire

A Property Questionnaire was completed by Ms. Robin Hudson, Development Compliance Manager, and the Current Landowner Representative, and returned to D3G. Ms. Robinson indicated that the property was purchased in 1979 and that she has been with the property for over three (3) years. A copy of the completed Property Questionnaire is included in Appendix F.

7.2 Current Landowner Questionnaire

A User Property Questionnaire was completed by Ms. Robin Hudson, Development Compliance Coordinator with Columbia Housing and the Current Landowner Representative; therefore, an additional questionnaire is not warranted.

7.3 Previous Landowner Questionnaire

The current landowner has owned the property for more than two (2) years; therefore, a previous landowner questionnaire is not required.

7.4 Key Site Manager Questionnaire

A Property Questionnaire was completed by Ms. Robin Hudson, Development Compliance Manager with Columbia Housing and the Key Site Manager, and returned to D3G. Ms. Hudson indicated that she has been associated with the subject property for more than three (3) years. A copy of the completed Property Questionnaire is included in Appendix F.

7.5 Occupant Questionnaire

The subject property is currently utilized for residential purposes; therefore, an Occupant Questionnaire is not necessary for this investigation pursuant to ASTM E 1527-21 Section 10.5.2.1.

7.6 Local Agencies Contacted

D3G contacted the Richland County Fire Department on March 13, 2025 for a review of their environmental records (i.e. USTs, hazardous materials storage, and spills) for the subject property. As of the date of this report, D3G has not received a response to this inquiry. Upon receipt of the agency response, D3G will forward this information as an addendum to this report. If no response is received or no material information is identified, our report will not be modified. A copy of the correspondence is located in Appendix F of this report.

D3G contacted the Richland County Health Department on March 13, 2025 for a review of their environmental records including regional environmental health issues, on-site wells and/or septic system records for the subject property. As of the date of this report, D3G has not received a response to this inquiry. Upon receipt of the agency response, D3G will forward this information as an addendum to this report. If no response is received or no material information is identified, our report will not be modified. A copy of the correspondence is located in Appendix F of this report.

7.7 Additional Persons Interviewed

INTERVIEWED PERSON	POSITION/ RELATION TO PROPERTY	INTERVIEW DATE	CONTENT OF DISCUSSION
Ricky Boyd	Grounds Keeper	5/15/2025	Provided tour of facility and discussed property history

8.0 INVESTIGATION FOR NON-SCOPE CONSIDERATIONS

8.1 Asbestos-Containing Materials

The facility was constructed in 1971, during a time of asbestos-containing building material usage. Ms. Kathryn Hubicki, a State of South Carolina licensed Asbestos Building Inspector (license #BI-01079) with One Source Environmental, LLC (OSE), previously conducted a limited asbestos survey at the subject property on November 15, 2023 on behalf of D3G. The survey was conducted in accordance with practices described within the ASTM Standard Practice for Comprehensive Asbestos Building Surveys Designation: E 2356-18 (ASTM E 2356-18) for Baseline Surveys. However, the inspection was limited to accessible areas of the facility and is not considered to be in full compliance with pre-renovation standards (40 CFR 61 Subpart M) or State of South Carolina regulations. The structure is proposed for significant rehabilitation; however, as it is currently occupied, only limited sampling was able to be conducted. Therefore, additional sampling and inspection of 100% of the units will be required prior to renovation activities to comply with EPA and State of South Carolina asbestos regulations. All suspect ACMs were identified during the course of the inspection. Sampled materials included drywall, joint compound, ceiling tiles and textured ceiling materials. An asbestos-containing material is defined as containing greater than 1% asbestos. Identified and/or assumed ACMs include popcorn ceiling texture materials, vinyl flooring and covebase materials and associated mastics, ceramic tile and grout, undersink coating materials, transite panels, mirror mastics, caulking materials and roofing materials. The textured ceiling materials are considered to be a non-friable (not able to be crushed via hand pressure) material in its current intact condition and is not considered to present a concern to residents or maintenance staff. The remainder of the presumed ACMs are considered to be non-friable and all materials were observed to be in good condition at the time of the site inspection, with the exception of the textured ceiling materials located in the entry of unit 507 which were observed to be damaged.

The Limited Asbestos Survey Report, which provides more detail on the sampled materials and inspector observations, is included in Appendix J.

Recommendations are included in Section 11.0 of this report.

8.2 Lead-Based Paint

The facility was originally constructed in 1971, prior to the 1978 ban on lead-based paint (LBP). Therefore, lead-based paint may be present. Lead-based paint is presumed to have been used on interior and exterior surfaces of the facility. No peeling or flaking paint was observed at the subject property at the time of the subject property inspection. Applicable protocols do not typically regulate facilities that are occupied by senior citizens and/or disabled individuals.

8.3 Radon Gas

The subject property is located in an EPA Radon Zone 3, designated as an area of low radon gas potential with an average indoor radon level below 2 picocuries per liter (pCi/L) of air. Radon gas testing was not included in D3G's scope of work and is not recommended at this time based on the extent of the proposed rehabilitation activities. Depending on the end financing, radon testing may be required to be conducted following renovation activities.

8.4 Flood Zone

According to FEMA Flood Insurance Rate Map (FIRM) #45079C-0244L, dated December 21, 2017, the subject property is located in Unshaded Zone X, designated as an area outside the 100 and 500-year flood zones and the flood potential for the subject property is minimal. According to the FEMA Flood Map Service Center accessed at https://msc.fema.gov/portal/home, there are no preliminary or pending FIRMs for the subject property. A copy of the FEMA FIRMs are located in Appendix A.

8.5 Wetlands

A wetland delineation/determination has not been performed at the subject property; however, according to the USFWS National Wetlands Inventory Layer accessed at http://nepassisttool.epa.gov/nepassist/entry.aspx and visual observations, there are not suspected to be any wetland areas on the subject property. A copy of the NWI Map is provided in Appendix A.

According to the South Carolina State Housing Finance and Development Authority (SCSHFDA) 2025 Qualified Action Plan (QAP), the full application must include "A determination regarding the presence or absence of wetlands, including non-jurisdictional wetlands. The Applicant must retain a qualified professional to complete Exhibit W." In 2024, Ms. Margaret Monnett, Professional Wetland Scientist, completed a desktop review of the subject property's soil characteristics, site photographs, and NWI mapper and determined that the subject property does not contain jurisdictional and non-jurisdictional wetlands. The Development Owner is responsible for the remainder of the Exhibit W. A copy of the Exhibit W is included in Appendix L.

Recommendations are listed in Section 11.0 of this report.

8.6 Mold

The subject property was visually inspected for the presence of moisture intrusion and mold growth. Interior evidence of moisture intrusion and/or mold growth was not observed during D3G's inspection on May 15, 2025. However, interior evidence of moisture intrusion and/or mold growth was observed during D3G's previous inspection in the following locations: Units 510 at the bedroom and living room windows; Unit 510, 511, 305 at the living room windows; in the kitchen of Units 606, 510, 509, and 305; and in the bathroom ceilings of Units 509, 508, 307, 202, 206 and 107. In addition, according to Mr. Ricky Boyd, Grounds Keeper, there are minor issues with moisture intrusion during heavy rain.

Recommendations are listed in Section 11.0 of this report.

9.0 FINDINGS

This Phase I ESA was prepared in accordance with ASTM Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process Designation: E 1527-21, 40 CFR Part 312 Standards and Practices for All Appropriate Inquiries: Final Rule, SCSHFDA 2025 environmental guidelines, and accepted Phase I ESA industry standards. This assessment has revealed the following findings, consisting of RECs, CRECs, HRECs, environmental concerns, and significant data gaps, based on the subject property inspection, interviews, and review of available records:

EVALUATED CONDITIONS	ON-SITE	ADJACENT
STANDARD ENVIRONMENTAL RECORDS REVIEW	YES	NO
UNREGULATED UNDERGROUND STORAGE TANK(S) (UST)	NO	NO
PAST INDUSTRIAL/DETRIMENTAL OPERATIONS	NO	NO
VAPOR ENCROACHMENT CONDITION	YES	NO
STORED HAZARDOUS MATERIALS	NO	NA
POLYCHLORINATED BIPHENYLS (PCBS)	NO	NA
ABOVEGROUND STORAGE TANK(S) (AST)	NO	NO
DUMPING, LANDFILLS	NO	NO
HAZARDOUS RUN-OFF	NO	NO
ASBESTOS-CONTAINING MATERIALS	YES	NA
LEAD-BASED PAINT	NA	NA
RADON GAS	NO	NA
FLOOD ZONE	NO	NA
WETLANDS	YES	NA
OTHER: MOLD	YES	NA

NA = Not Applicable

10.0 OPINION

Recognized Environmental Conditions (RECs)

As defined in ASTM E 1527-21, RECs are (1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment. **Based on the findings of this Phase I ESA, no RECs were identified, except for the following:**

Adjacent LUST/UST/VEC

Arrington Manor High Rise (the subject property), located on-site at 2225 College Street, is identified as a LUST incident and UST facility in the EDR Report. According to the UST listing, the facility (Facility ID:07323) is associated with one (1) 560-gallon abandoned diesel underground storage tank (UST). No information regarding the age of the UST was included in the EDR Report. According to the LUST listing (Facility ID #07323), a release of diesel was reported on December 20, 1991. Clean up was initiated November 23, 1992 and a No Further Action letter was issued on January 13, 1993. D3G submitted a FOIA request with the South Carolina Department of Health and Environmental Control (SCDHEC) to obtain records regarding the on-site LUST incident and UST facility. However, SCDHEC responded that no files were available for the on-site facility. Therefore, D3G requested that the Columbia Housing Authority provide any and all documentation related to the on-site UST facility and LUST incident. However, no information was available for review. Therefore, to determine if the LUST incident involving one (1) 560-gallon abandoned diesel UST has negatively affected the environmental integrity of the subject property, and to assess whether there has been a release of hazardous substances at levels that would exceed the Statewide screening-level criteria (de minimis levels), D3G performed a Limited Phase II ESA on March 15, 2024, which included the advancement of three (3) soil borings with the collection of subsurface soil (SB-1, SB-2, and SB-3) for laboratory analysis. In addition, three (3) soil gas borings were advanced for the collection of soil gas samples (SG-1, SG-2, and SG-3), and one (1) outdoor (ambient) air sample (OA-1) was also taken. Subsurface soil samples were analyzed for Select Volatile Organic Compounds (VOCs) via EPA Method 8260/8011 and Polycyclic Aromatic Hydrocarbons (PAHs) via Environmental Protection Agency (EPA) Method 8270-SIM. Soil gas samples were analyzed for Select VOCs via EPA Method TO 15. Borings were advanced to an approximate depth of six (6) to seven (7) feet below ground surface (bgs) to locate a water bearing zone with sufficient recharge for groundwater sample collection.

East Coast Geophysics reported to the Arrington Manor property in Columbia, South Carolina (subject property) on March 15, 2024, to perform a geophysical and ferromagnetic survey within the immediate vicinity of the LUST incident involving one (1) 560-gallon abandoned diesel UST. The property was further surveyed with the GPR and no evidence of a UST was observed. There were some apparent disturbed soils in the area where borings were pre-cleared, but no definitive evidence of a tank grave was observed. Furthermore, East Coast Geophysics investigated the boiler room for evidence of an UST such as vent/fill pipes, asphalt patches, and/or ground depressions. No evidence of a UST was observed on the property.

To evaluate the VEC from the identified RECs at the subject property associated with the LUST incident involving one (1) 560-gallon abandoned diesel UST, D3G conducted a Vapor Encroachment Screen (VES)/risk-based screening assessment (Tier II Invasive Screen) on the subject property. D3G advanced three (3) exterior soil gas borings at the subject property for the installation of deep subsurface soil gas samples (SG-1 through SG-3), which were advanced and installed at a depth of five (5) feet below ground surface. Subsurface soils were collected (US EPA grab and 5035 sampling methodologies) continuously with disposable clear acetate

liners and were screened in the field with a photoionization detector (PID) to indicate the presence of VOCs. In addition, D3G collected one (1) outdoor (ambient) air sample from upwind of the subject property and away from any potential VOC sources to account for potential background influences. The sample was submitted to a South Carolina accredited laboratory under appropriate chain-of-custody procedures and analyzed for Select VOCs via EPA Method TO 15.

Temporary groundwater sampling points were initially proposed to be installed within soil borings (SB-1 through SB-3) using hydraulically driven direct-push sampling equipment. However, during borehole advancement, no observed water bearing zone was observed at depths measured at six (6) to seven (7) feet. D3G concludes that any potential or perceived groundwater contamination attributed to the LUST incident involving one (1) 560-gallon abandoned diesel UST is unlikely based on the subsurface conditions encountered as part of this Limited Phase II ESA subsurface investigation. Therefore, a VEC is unlikely to exist attributed to the groundwater exposure pathway beneath the subject property within the areas of SB-1 through SB-3 as investigated as part of this Limited Phase II ESA.

Subsurface Soil Sampling Analytical Results

Field Observations: No visual or olfactory evidence of soil contamination (free product, staining and/or odor) was observed during the advancement of soil borings SB-1 through SB-3. PID readings taken during the soil screening process ranged from 0.0 to 0.2 parts per million (ppm).

Select VOCs: No concentrations of Select VOCs analyzed within subsurface soil samples collected from SB-1 through SB-3 were identified above their respective laboratory reporting limits, above their applicable most stringent SCDHEC Risk Based Screening Levels (RBSLs) for soils, and/or the USEPA RSLs for Resident Soil .

PAHs: No concentrations of PAHs analyzed within subsurface soil samples collected from SB-1 through SB-3 were identified above their respective laboratory reporting limits, above their applicable most stringent SCDHEC RBSLs for soils and/or the USEPA RSLs for Resident Soil during this Limited Phase II ESA investigation.

Exposure Pathways: Based on the lack of visual and olfactory evidence of contamination as well as the subsurface soil laboratory analytical results indicating concentrations of Select VOCs and PAHs below their applicable, most stringent SCDHEC RBSLs for soils and/or the USEPA RSLs for Resident Soil within soil borings SB-1 through SB-3 during this Limited Phase II ESA investigation, D3G concludes that hazardous substances and petroleum constituents as defined by CERCLA have not been identified above Statewide, non-site specific criteria, and that a REC and a VEC does not exist on the subject property attributed to the LUST incident involving one (1) 560-gallon abandoned diesel UST within the areas investigated during this Limited Phase II ESA. Therefore, the exposure pathways for dermal contact, incidental ingestion, and inhalation for current/future residential receptors and/or construction/utility workers are considered incomplete.

Soil Gas Vapor Sampling Analytical Results

Field Observations: No evidence of contamination (petroleum/non-petroleum odors) was observed during the advancement of soil gas borings SG-1 through SG-3. PID readings taken during soil screening and temporary soil gas probe monitoring prior to sampling SG-1 through SG-3 ranged from 0.0 to 0.6 ppm during this Limited Phase II ESA Investigation.

Select VOCs: Elevated concentrations of Select VOC (Benzene) analyzed within the soil gas samples collected from soil gas sampling point SG-1 through SG-3 was identified above its respective laboratory reporting limits and above their applicable USEPA Sub-Slab and Near Source Soil Gas VISLs. Benzene was detected at 22.9 ug/m3 in SG-1, 51.7 ug/m3 in SG-2, and

19.2 ug/m3. All other concentrations of Select VOCs analyzed within soil gas samples collected from SG-1 through SG-3 were detected below their applicable laboratory reporting limits and/or below their applicable USEPA Sub-Slab and Near Source Soil Gas VISLs.

Outdoor (Ambient) Air Sampling Analytical Results

Field Observations: No olfactory or visual evidence of contamination (petroleum/non-petroleum odors) was observed during the placement of the outdoor (ambient) air sample (OA-1). PID readings of the outdoor (ambient) air, prior to soil gas sampling, was 0.0 ppm.

Select VOCs: An elevated concentration of Select VOC (Benzene) analyzed within the outdoor (ambient) air sample collected from outdoor (ambient) air sampling point OA-1 (0.87 ug/m3) was identified above its respective laboratory reporting limits and above their applicable SCDHEC RBSLs for Inhalation of vapors.

Exposure Pathways: VOC concentrations within the outdoor (ambient) air sampling point OA-1 were below the laboratory detection limits and the applicable SCDHEC RBSLs for Inhalation of vapors. However, elevated concentrations of Select VOC (Benzene) were identified within the outdoor (ambient) air sampling point OA-1 during this Limited Phase II ESA investigation. The outdoor (ambient) air sample was collected approximately 167 feet west of an active main road (College Street). The possibility exists that the elevated Benzene concentrations is a result of organic vapors, such as vehicle exhaust. Therefore, D3G concludes the exposure pathways for inhalation for future/current residential receptors and construction/utility workers are considered incomplete for outdoor (ambient) air vapor inhalation with the identified Benzene concentrations most likely due to automotive emissions due to the subject property's urban environment setting.

Vapor Intrusion Screening Level (VISL) Calculator

Based on the laboratory analytical results indicating elevated concentrations of Select VOC constituent (Benzene) identified within the soil gas sample collected from SG-1 through SG-3 above the applicable USEPA Target Sub-Slab and Near-source Soil Gas VISLs during this Limited Phase II ESA, D3G utilized the USEPA VISL Calculator to determine site-specific calculated Target Indoor Air Concentrations. The VISL calculator identifies chemicals that are sufficiently volatile and toxic to warrant an investigation of the soil gas intrusion pathway when they are present as subsurface contaminants. D3G input the elevated soil gas sampling analytical data and the recommended default attenuation factor for soil gas (0.03) into the USEPA VISL calculator to further evaluate calculated site-specific indoor air concentrations. After calculating estimated site-specific Target Indoor Air Concentrations from the soil gas analytical data, the estimated Target Indoor Air Concentrations were compared against the USEPA Resident Target Indoor Air VISLs, to determine if the identified soil gas concentrations will be detrimental to the residential structure indoor air and thus, pose a threat to the environment and to the health of existing or future tenants. The results of the EPA VISL calculator indicate calculated estimated site-specific Indoor Air Concentrations of Select VOC constituent (Benzene) above the applicable SCDHEC RBSLs for Inhalation of vapors. The calculated estimated indoor air benzene concentrations for SG-1 is 0.687 ug/m3; SG-2 is 1.66 ug/m3; and SG-3 is 0.576 ug/m3. Therefore, D3G concludes that the identified Select VOC constituent (Benzene) identified within soil gas samples SG-1 through SG-3 currently represents a VEC within the area investigated during the Limited Phase II ESA investigation with supplemental Tier II invasive investigation warranted (ASTM E 2600-22).

However, based on the subsurface soil samples collected from the subject property, no concentrations of Select VOC constituent (Benzene) were identified within the source media (soil and/or groundwater) beneath the AOCs; therefore, D3G suspects a potential vapor source migrating onto the subject property through preferential pathways (i.e. utility lines, etc.) and are most likely attributed to an off-site source. In addition, it should be noted, the USEPA VISL model

is a conservative screening tool and does not account for building foundation type, size, soil gas entry rates, building exchange rates, soil type, porosity, moisture, vertical and/or lateral inclusion zones from the source and/or chemical volatilization from groundwater.

Conclusions

based on the subsurface soil samples collected from the subject property, no concentrations of Select VOC constituent (Benzene) was identified above the SCDHEC RBSLs for soils and/or the USEPA RSLs for Resident Soil within the areas investigated indicating a lack of source media (soil contamination) beneath the subject property, D3G suspects a potential vapor source migrating onto the subject property through preferential pathways (i.e. utility lines, etc.) and are most likely attributed to an off-site source. Based on the soil gas laboratory analytical results from samples collected from soil gas points SG 1 [22.9 ug/m3], SG-2 [51.7 ug/m3], and SG-3 [19.2 ug/m3] indicating the presence of Volatile Organic Compound (Benzene) above its applicable USEPA VISLs for Target Sub-Slab and Near-Source Soil-Gas Concentration (TR=1E 06, THQ=0.1) and/or SCDHEC RBSLs for Inhalation of vapors during this Limited Phase II ESA/Tier II Invasive Screen investigation, soil vapor beneath the Arrington Manor has been adversely affected with a Recognized Environmental Condition (REC) and Vapor Encroachment Condition (VEC) currently existing within subsurface media (soil gas) beneath the subject property within the areas investigated as part of the Limited Phase II ESA investigation.

Based on the exterior soil gas sampling analytical laboratory results obtained within the soil gas samples collected from SG-1 through SG-3 indicating elevated levels of (Benzene) above the applicable SCDHEC RBSLs for Inhalation of vapors, further investigation is warranted at the subject property.

Controlled Recognized Environmental Conditions (CRECs)

As defined in ASTM E 1527-21, a CREC is a REC affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to implementation of required controls (for example, activity and use limitations or other property use limitations). **Based on the findings of this Phase I ESA, no CRECs were identified.**

Historical Recognized Environmental Conditions (HRECs)

As defined in ASTM E 1527-21, an HREC is a previous release of hazardous substances or petroleum products affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the subject property to any controls (for example, activity and use limitations or other property use limitations). A HREC is not a REC. **Based on the findings of this Phase I ESA, no HRECs were identified.**

Environmental Concerns

D3G defines "environmental concerns" as de minimis conditions and non-scope considerations for which further action is recommended. As defined in ASTM E 1527-21, a de minimis condition is a condition related to a release 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 appropriate governmental agencies. A condition determined to be a de minimis condition is not a REC nor a CREC. Non-scope considerations include assessed environmental issues or conditions beyond the scope of ASTM E 1527-21 as stated in Section 2.2 and/or discussed below. **Based on the findings of this Phase I ESA, no environmental concerns were identified, except for the following:**

Asbestos-Containing Materials (ACMs)

The facility was constructed in 1971, during a time of asbestos-containing building material usage. Ms. Kathryn Hubicki, a State of South Carolina licensed Asbestos Building Inspector (license #BI-01079) with One Source Environmental, LLC (OSE), previously conducted a limited asbestos survey at the subject property on November 15, 2023 on behalf of D3G. The survey was conducted in accordance with practices described within the ASTM Standard Practice for Comprehensive Asbestos Building Surveys Designation: E 2356-18 (ASTM E 2356-18) for Baseline Surveys. However, the inspection was limited to accessible areas of the facility and is not considered to be in full compliance with pre-renovation standards (40 CFR 61 Subpart M) or State of South Carolina regulations. The structure is proposed for significant rehabilitation; however, as it is currently occupied, only limited sampling was able to be conducted. Therefore, additional sampling and inspection of 100% of the units will be required prior to renovation activities to comply with EPA and State of South Carolina asbestos regulations. All suspect ACMs were identified during the course of the inspection. Sampled materials included drywall, joint compound, ceiling tiles and textured ceiling materials. An asbestos-containing material is defined as containing greater than 1% asbestos. Identified and/or assumed ACMs include popcorn ceiling texture materials, vinyl flooring and covebase materials and associated mastics, ceramic tile and grout, under sink coating materials, transite panels, mirror mastics, caulking materials and roofing materials. The textured ceiling materials are considered to be a non-friable (not able to be crushed via hand pressure) material in its current intact condition and is not considered to present a concern to residents or maintenance staff. The remainder of the presumed ACMs are considered to be non-friable and all materials were observed to be in good condition at the time of the site inspection, with the exception of the textured ceiling materials located in the entry of unit 507 which were observed to be damaged.

Wetlands

A wetland delineation/determination has not been performed at the subject property; however, according to the USFWS National Wetlands Inventory Layer accessed at http://nepassisttool.epa.gov/nepassist/entry.aspx and visual observations, there are not suspected to be any wetland areas on the subject property. A copy of the NWI Map is provided in Appendix A.

According to the South Carolina State Housing Finance and Development Authority (SCSHFDA) 2024 Qualified Action Plan (QAP), the full application must include "A determination regarding the presence or absence of wetlands, including non-jurisdictional wetlands. The Applicant must retain a qualified professional to complete Exhibit W." Ms. Margaret Monnett, Professional Wetland Scientist, completed a desktop review of the subject property's soil characteristics, site photographs, and NWI mapper and determined that the subject property does not contain jurisdictional and non-jurisdictional wetlands. The Development Owner is responsible for the remainder of the Exhibit W.

Mold/Moisture Intrusion

The subject property was visually inspected for the presence of moisture intrusion and mold growth. Interior evidence of moisture intrusion and/or mold growth was not observed during D3G's inspection on May 15, 2025. However, interior evidence of moisture intrusion and/or mold growth was observed during D3G's previous inspection in the following locations: Units 510 at the bedroom and living room windows; Unit 510, 511, 305 at the living room windows; in the kitchen of Units 606, 510, 509, and 305; and in the bathroom ceilings of Units 509, 508, 307, 202, 206 and 107. In addition, according to Mr. Ricky Boyd, Grounds Keeper, there are minor issues with moisture intrusion during heavy rain.

Significant Data Gaps

As defined in ASTM E 1527-21, a significant data gap is a data gap that affects the ability of the environmental professional to identify a REC. A data gap is a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information. Data gaps may result from incompleteness in any of the activities required by this practice, including, but not limited to, site reconnaissance (for example, an inability to conduct the site visit), and interviews (for example, an inability to interview the key site manager, regulatory officials, etc.). **Based on the findings of this Phase I ESA, no significant data gaps were identified.**

11.0 CONCLUSIONS

Dominion Due Diligence Group has performed a Phase I Environmental Site Assessment (ESA) in conformance with the scope and limitations of ASTM Practice E 1527-21 of the Arrington Manor located at 2225 College Street in Columbia, Richland County, South Carolina (subject property). Any exceptions to, or deletions from, this practice are described in Section 2.4 of this report. **This assessment has revealed no evidence of recognized environmental conditions (RECs), controlled recognized environmental conditions (CRECs), or significant data gaps in connection with the subject property, except for the following:**

On-site LUST/UST/VEC

Soil gas volatile chemical levels should be used to estimate the contribution of soil gas VI sources to indoor air levels. Confirmation sampling (i.e., an additional or additional rounds) may need to be conducted to estimate the contribution from the environmental release. If soil gas samples exceed screening values and buildings are within one hundred (100) feet of the sample location for nonpetroleum vapor-forming chemicals and within thirty (30) feet of PHC vapor-forming chemicals, then sub-slab vapor samples and/or indoor air samples should be collected to further evaluate the vapor intrusion risk pathway. Therefore, based on the results of the EPA VISL calculator indicating calculated estimated site-specific Indoor Air Concentrations of Select VOC (Benzene) above the applicable USEPA VISL for Target Indoor Air Concentrations, D3G concludes that the elevated levels of Select VOC (Benzene) identified within the soil gas samples collected from SG-1 through SG-3 potentially represents a VIC to existing/future tenants within 2225 College Street as investigated during this Limited Phase II ESA investigation with further Tier 2 investigations warranted (ASTM E 2600-22). However, it should be noted, the USEPA VISL model is a conservative screening tool and does not account for building foundation type, size, soil gas entry rates, building exchange rates, soil type, porosity, moisture, vertical and/or lateral inclusion zones from the source and/or chemical volatilization from groundwater. Therefore, D3G recommends a quantitative sub-slab sampling (Point of Entry to Receptor) to be conducted at the subject property (prior to disposition) further outlined herein. The supplemental quantitative Tier II invasive Vapor Encroachment Screen (VES)/supplemental vapor intrusion risk-based screening assessment is to be conducted on the subject property for the identified VEC including but not limited to sub-slab soil vapor and indoor air quality sampling within the structures located within the area of SG-1 through SG-3 (2225 College Street) for Select VOC (Benzene).

The vapor intrusion risk-based screening will be utilized to support and evaluate human health risk using supplemental individual subsurface data (e.g., sub-slab vapor and indoor air concentrations), which would consider the magnitude of the concentration exceedance of the USEPA VISLs as outlined within SCDHEC Quality Assurance Program Plan for the UST Management Division — Revision Number 4.0, dated July 2020. The supplemental investigation will be utilized as a baseline risk assessment of exposure to residential receptors, exposure pathways, toxicity of contaminants present at the site, further characterization of human health risks, impacts or risks to the environment and the further development of a site-specific CSM. In accordance with the Office of Solid Waste and Emergency Response (OSWER) Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Vapor Sources to Indoor Air — OSWER Publication 9200.2-2-154, dated June 2015, multiple lines of evidence are particularly important for supporting "no-further-action" decisions regarding the vapor intrusion pathway (e.g., pathway incomplete determinations) to reduce the chance of reaching a false-negative conclusion (i.e., concluding vapor intrusion does not pose unacceptable human health risk, when it poses an unacceptable human health risk, when it does not).

D3G has performed a Phase I ESA at the subject property. Based on the identified environmental concerns discussed in Section 10.0, D3G recommends the following:

Asbestos-Containing Materials (ACMs)
Prior to renovation activities, a comprehensive asbestos inspection which includes sampling of all materials to be impacted by renovation activities and an inspection of 100% of the units should be conducted at the subject property by an appropriately licensed asbestos inspector in accordance with State of South Carolina asbestos regulations. Any ACMs which are to be impacted during the renovation activities should be removed by a licensed asbestos abatement contractor in accordance with applicable regulations. Any remaining ACMs and/or PACMs should be managed under the site-specific Operations and Maintenance (O&M) Program prepared by D3G dated March 6, 2024. The O&M Program should be updated to reflect any additional inspection and subsequent abatement activities.

Wetlands
D3G recommends that the remainder of Exhibit W (i.e. a wetland determination/delineation) be completed by the Development Owner certify if there are potential jurisdictional and non-jurisdictional wetlands on-site.

Mold/Moisture Intrusion
D3G recommends contracting an experienced professional to evaluate and remediate the observed mold and moisture intrusion as part of the Scope of Work for the project in accordance with applicable local, state, and federal regulations.

12.0 DEVIATIONS

There are no deviations from ASTM E1527-21 except for those outlined in Section 2.4 of this report.

13.0 ADDITIONAL SERVICES

No additional services were contracted between the User and D3G.

14.0 REFERENCE MATERIALS

- Richland County Fire Department, Health Department, and Assessor
- Web Soil Survey accessed at http://websoilsurvey.nrcs.usda.gov/app/
- Environmental Data Resources Inc. (EDR) Report, dated May 9, 2025
- FEMA Flood Insurance Rate Map (FIRM) #45079C-0244L, dated December 21, 2017
- Google Maps
- Google Earth and EDR — aerial photographs
- EDR Certified Sanborn Map Report
- Current USGS Topographic Quadrangles accessed via the USGS Map Locator Store - https://store.usgs.gov/map-locator
- EPA Radon Map
- U.S. EPA NEPAssist access at http://nepassisttool.epa.gov/nepassist/entry.aspx
- Below provides basic descriptions for the data included in the mapping layers available through NEPAssist that were utilized in this Phase I ESA:
- USFWS National Wetlands Inventory map accessed at http://www.fws.gov/wetlands/Data/Mapper.html

15.0 SIGNATURE OF ENVIRONMENTAL PERSONNEL

Data presented in this report is factual to the best of our knowledge. Available sources of data were comprehensively researched to provide a complete Phase I ESA of the subject property. The Phase I ESA was prepared in accordance with ASTM Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (ASTM E 1527-21), 40 CFR Part 312 Standards and Practices for All Appropriate Inquiry: Final Rule, SCSHFDA 2024 environmental guidelines, and accepted Phase I ESA industry standards.

D3G has no financial interest or family relationship with the officers, directors, stockholders or partners of the Borrower, the general contractor, any subcontractors, the buyer or seller of the proposed property or engage in any business that might present a conflict of interest.

D3G is employed under contract for this specific assignment and has no other side deals, agreements, or financial considerations with the Lender or others in connection with this transaction.

Environmental Professional

Brandon Vidra
Environmental Professional

Principal

Robert Hazelton
Principal

16.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

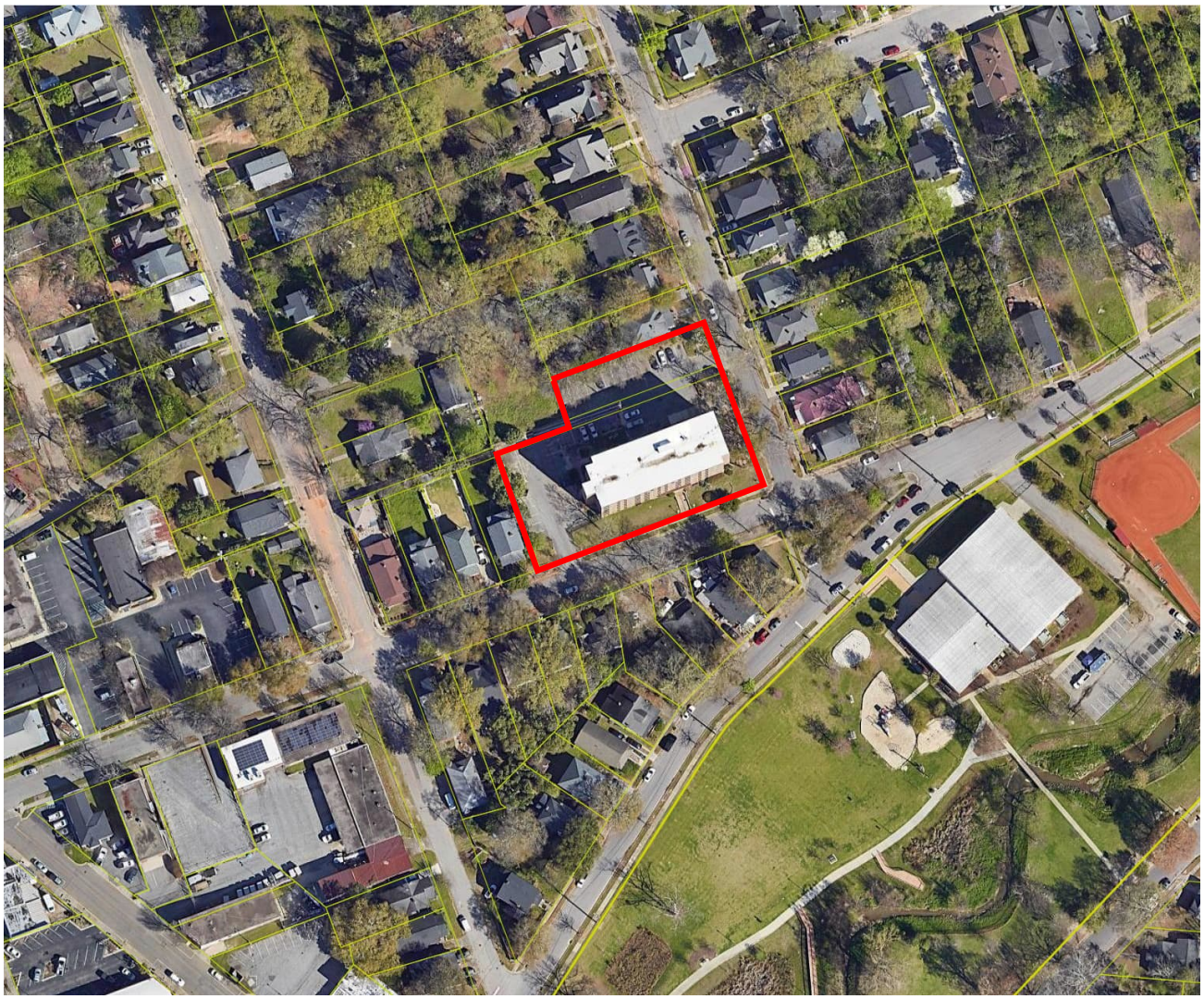
I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR Part 312.

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Brandon Vidra qualifies as an **Environmental Professional** as defined in 40 CFR Part 312.10(b). Mr. Vidra has numerous years of extensive training and experience with regards to environmental issues. He received an undergraduate B.S. degree in Integrated Science and Technology, with a concentration in the Environment, from James Madison University and has inspected, managed, and designed numerous environmental projects throughout the United States. Mr. Vidra also has extensive knowledge of the ASTM E1527 Phase I Environmental Site Assessment regulations as well as the EPA 40 CFR Part 312 Standards and Practices for All Appropriate Inquiries regulations. Mr. Vidra qualifies as an Environmental Professional as defined under ASTM E1527 Section 4.3 and Appendix X2 with over five (5) years of experience performing investigations of surface and subsurface environmental conditions. As an Environmental Team Leader and Environmental Professional for Dominion Due Diligence Group, his responsibilities include coordinating, conducting, preparing, and reviewing Phase I Environmental Site Assessments (HUD, ASTM E1527, state tax credits, Fannie Mae, Freddie Mac, etc.), as well as Environmental Reviews throughout the United States, consisting of compliance evaluations with the National Environmental Policy Act (NEPA) and other project-specific guidance requirements (MAP, LEAN, HOME, HTF, RAD, SAC, etc.). Additionally, Mr. Vidra is responsible for training, performance, and management of Housing Preservation Services (HPS) Environmental Technicians, client contact, and comprehensive report reviewing.

Appendix A:

Site (Vicinity) Maps



Appendix A Tax Map	↑ **N**	Arrington Manor 2225 College Street Columbia, South Carolina *Tax Map Numbers R11409-02-18 and R11409-02-19*	**DOMINION DUE DILIGENCE GROUP**

RICHLAND COUNTY SOUTH CAROLINA

Richland County, SC, Property Record Card

Tax Map Number: R11409-02-18
809 OAK ST COLUMBIA SC 29205

HOUSING AUTHORITY OF THE
CITY OF COLUMBIA
1917 HARDEN ST
COLUMBIA SC 292040000

Total Value
$0

KEY INFORMATION

TMS #	**R11409-02-18**	Zoning	**RM-2**
Account #	**00300784**		
Secondary Zoning	-		
Owner	**HOUSING AUTHORITY OF THE**	Tax District	**1CC**
Situs Address	**809 OAK ST**	Legal Residence	**No**
Neighborhood	**MARTIN LUTHER KING PARK AREA NORTH TO GERVAIS ST**	Sewer Connection	**NONE**
Legal Description	**PARCEL 1 #SU #PR**	Water Connection	**NONE**

ASSESSMENT INFORMATION

Assessment Year	**2024**
Market Non-Agric Value	**$11,300**
Market Agric Value	-
Market Structure Value	-
Total Market Value	**$11,300**
Total Taxable Value	**$0**

TAX INFORMATION

Year	**2024**
Property Tax Relief	**0.00**
Local Opt Sales Credit	**0.00**
Tax Amount	**$0**
Paid	**Y**
Homestead	**N**

LAND

Number of Acres	-	Neighborhood	**MARTIN LUTHER KING PARK AREA NORTH TO GERVAIS ST**

BUILDINGS

No data to display

SALES HISTORY

BOOK	PAGE	SOLD AS VACANT	TRANSACTION DATE	TRANSACTION PRICE	GRANTEE	GRANTOR
D0522	0851	0	01/01/1980	*See Deed*	HOUSING AUTHORITY OF THE	-

SERVICES INFORMATION

Address	**809 OAK ST COLUMBIA SC 29205**	Garbage Coll. Day	**No Pickup**
Municipality	**Columbia**	Recycling Coll. Day	**No Pickup**
School District	**Richland School District 1**	Yard Trash Coll. Day	**No Pickup**

POLITICAL INFORMATION

Voting Precinct	**Ward 33**	SC Senate Dist.	**21**
Voting Location	**Martin Luther King Park**	SC Senate Rep.	**Darrell Jackson**
County Council Dist.	**5**	SC House Dist.	**74**
County Council Rep.	**Allison Terracio**	SC House Rep.	**J. Todd Rutherford**
County Magistrate	**JUDGE HAROLD CUFF**		

Data last updated: 05/09/2025

RICHLAND COUNTY SOUTH CAROLINA

Richland County, SC, Property Record Card

Tax Map Number: R11409-02-19
2225 COLLEGE ST COLUMBIA SC 29205

HOUSING AUTHORITY OF
THE CITY OF COLUMBIA
1917 HARDEN ST
COLUMBIA SC 292040000

Total Value
$0

KEY INFORMATION

TMS #	**R11409-02-19**	Zoning	**RM-2**
Account #	**00300793**		
Secondary Zoning	-		
Owner	**HOUSING AUTHORITY OF**	Tax District	**1CC**
Situs Address	**2225 COLLEGE ST**	Legal Residence	**No**
Neighborhood	**NORTH OF TAYLOR ST TO ELMWOOD AVE**	Sewer Connection	**NONE**
Legal Description	**251.4X125 ARRINGTON MANOR APTS. #PR #OM 0094-07-19**	Water Connection	**NONE**

ASSESSMENT INFORMATION

Assessment Year	**2024**
Market Non-Agric Value	**$59,700**
Market Agric Value	-
Market Structure Value	**$4,900**
Total Market Value	**$64,600**
Total Taxable Value	**$0**

TAX INFORMATION

Year	**2024**
Property Tax Relief	**0.00**
Local Opt Sales Credit	**0.00**
Tax Amount	**$0**
Paid	**Y**
Homestead	**N**

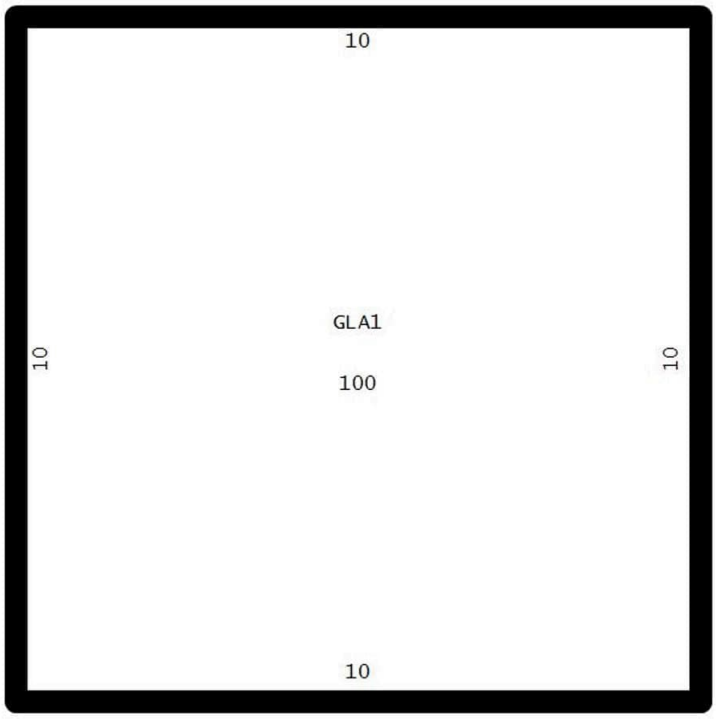
LAND

Number of Acres	-	Neighborhood	**NORTH OF TAYLOR ST TO ELMWOOD AVE**

BUILDINGS

BUILDING 1

Property Type	**Commercial**		
Year Built	**1900**	Stories	**0.00**
Year Remodeled	**1900**	Bedrooms	**0.00**
Heated Area	**100**	Bathrooms	**0.00**
Total Area	**100**	Exterior Wall	**Frame Masonry Veneer**
HVAC Type	-	Interior Wall	-
Roof Type	-	Foundation	-
Roof Cover	-	Floor Cover	-



SALES HISTORY

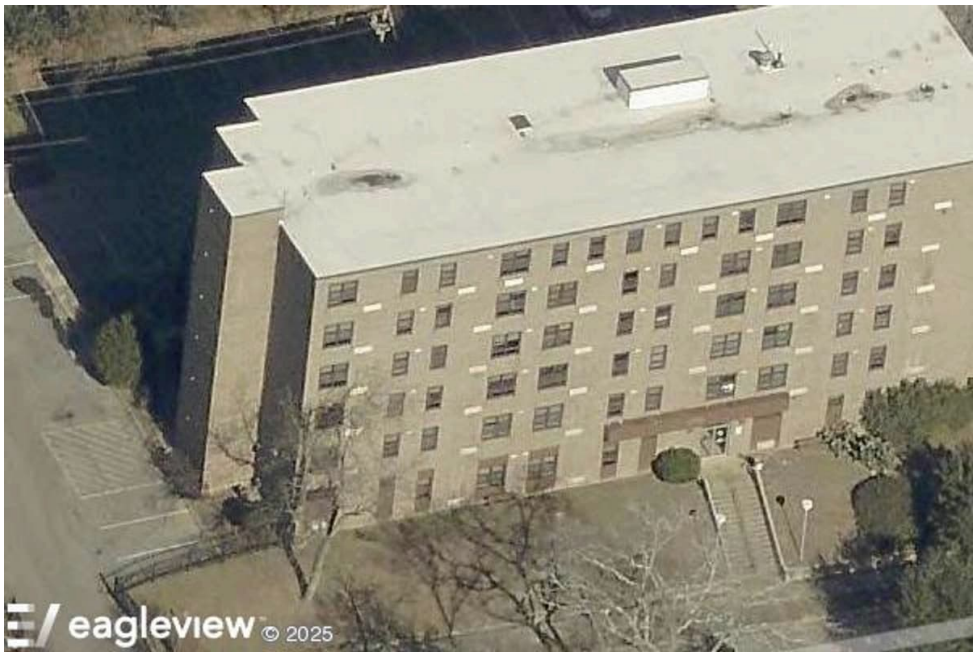
BOOK	PAGE	SOLD AS VACANT	TRANSACTION DATE	TRANSACTION PRICE	GRANTEE	GRANTOR
D0522	0848	0	01/01/1979	*See Deed*	HOUSING AUTHORITY OF	-

SERVICES INFORMATION

Address	**2225 COLLEGE ST COLUMBIA SC 29205**	Garbage Coll. Day	**No Pickup**
Municipality	**Columbia**	Recycling Coll. Day	**No Pickup**
School District	**Richland School District 1**	Yard Trash Coll. Day	**No Pickup**

POLITICAL INFORMATION

Voting Precinct	**Ward 33**	SC Senate Dist.	**21**
Voting Location	**Martin Luther King Park**	SC Senate Rep.	**Darrell Jackson**
County Council Dist.	**5**	SC House Dist.	**74**
County Council Rep.	**Allison Terracio**	SC House Rep.	**J. Todd Rutherford**
County Magistrate	**JUDGE HAROLD CUFF**		



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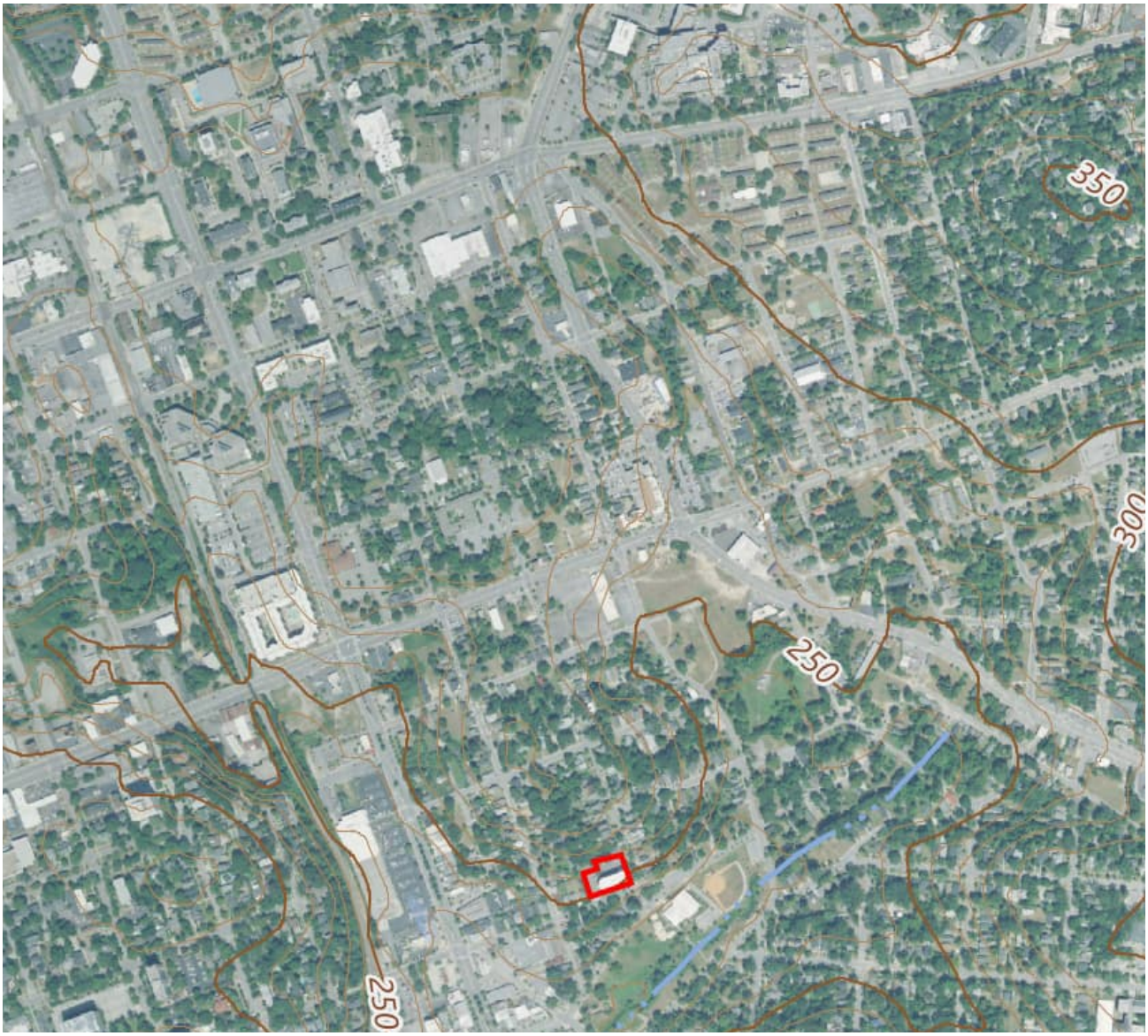
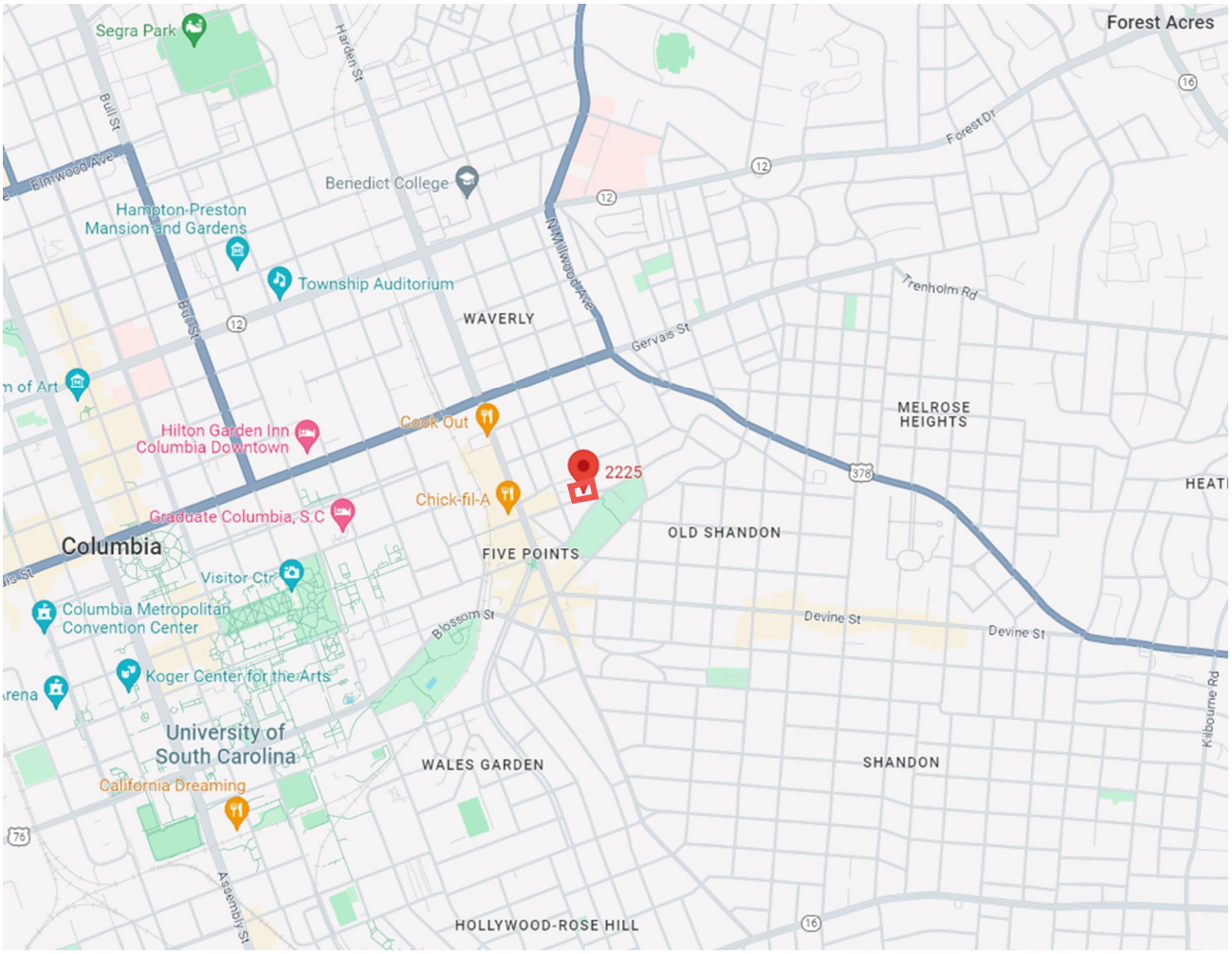


Appendix A Site Topographic Map	↑ **N**	Arrington Manor 2225 College Street Columbia, South Carolina *Topographic Quadrangle:* *Columbia North, South Carolina 2024*	**DOMINION DUE DILIGENCE GROUP**



Appendix A Site Locator Map	↑ **N**	Arrington Manor 2225 College Street Columbia, South Carolina	**DOMINION DUE DILIGENCE GROUP**

Appendix A Site Soils Map	↑ **N**	Arrington Manor 2225 College Street Columbia, South Carolina *http://websoilsurvey.nrcs.usda.gov/app/*	**DOMINION DUE DILIGENCE GROUP**

Map Unit Description (Brief, Generated)

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions in this report, along with the maps, provide information on the composition of map units and properties of their components.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

The Map Unit Description (Brief, Generated) report displays a generated description of the major soils that occur in a map unit. Descriptions of non-soil (miscellaneous areas) and minor map unit components are not included. This description is generated from the underlying soil attribute data.

Additional information about the map units described in this report is available in other Soil Data Mart reports, which give properties of the soils and the limitations, capabilities, and potentials for many uses. Also, the narratives that accompany the Soil Data Mart reports define some of the properties included in the map unit descriptions.

Report—Map Unit Description (Brief, Generated)

Richland County, South Carolina

Map Unit: OgD—Orangeburg-Urban land complex, 6 to 15 percent slopes

Component: Orangeburg (55%)

The Orangeburg component makes up 55 percent of the map unit. Slopes are 6 to 15 percent. This component is on marine terraces on coastal plains. The parent material consists of loamy marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria.

Component: Urban land (45%)

Generated brief soil descriptions are created for major soil components. The Urban land is a miscellaneous area.

Map Unit: Ur—Urban land

Component: Urban land (100%)

Generated brief soil descriptions are created for major soil components. The Urban land is a miscellaneous area.

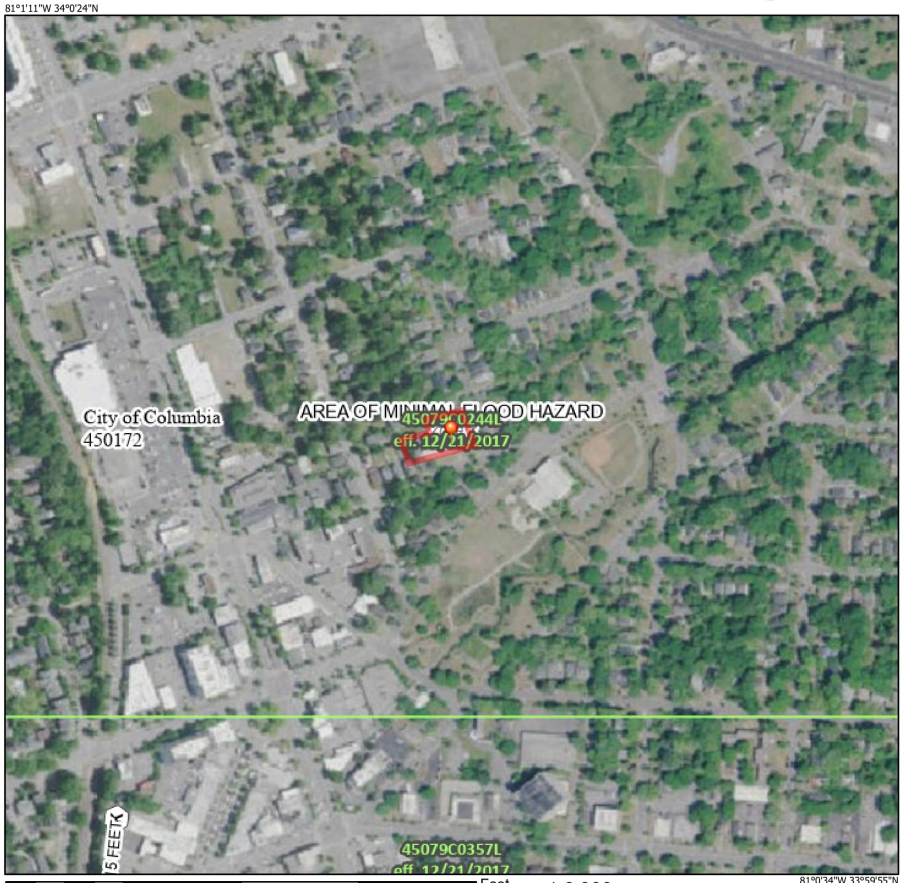
Data Source Information

Soil Survey Area: Richland County, South Carolina
Survey Area Data: Version 27, Aug 29, 2024

National Flood Hazard Layer FIRMette

FEMA

81°1'11"W 34°0'24"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

81°0'34"W 33°59'55"N

Basemap Imagery Source: USGS National Map 2023

Legend

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

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 / 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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 accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/9/2025 at 5:57 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.

Appendix A FEMA Flood Insurance Rate Map	↑ **N**	Arrington Manor 2225 College Street Columbia, South Carolina *Community Panel #45079C-0244L* *dated December 21, 2017*	**DOMINION DUE DILIGENCE GROUP**

FEMA Flood Map Service Center: Search All Products

Choose one of the three search options below and optionally enter a posting date range.

Jurisdiction	Jurisdiction Name	Product ID
State	**Jurisdiction Name or FEMA ID**	**Product ID**
-- Select --	COLUMBIA, CITY OF	
	(Ex. Fairfax County-wide or 51059C)	*(Ex. Panel Number, LOMC Case Number)*

> Filter By Posting Date Range *(Optional)*

Search | Clear All Fields

Search Results for COLUMBIA, CITY OF

Click subscribe to receive email notifications when products are updated.
Click to download a listing of all products.
If you are a person with a disability, are blind, or have low vision, and need assistance, please contact a map specialist

Please Note: Searching All Products by county displays all products for all communities within the county. You can refine your search results by specifying your specific jurisdiction location using the drop-down menus above.

Expand All

Effective Products (98)
Preliminary Products (0)
Pending Product (0)
Historic Products (185)
Flood Risk Products (10)

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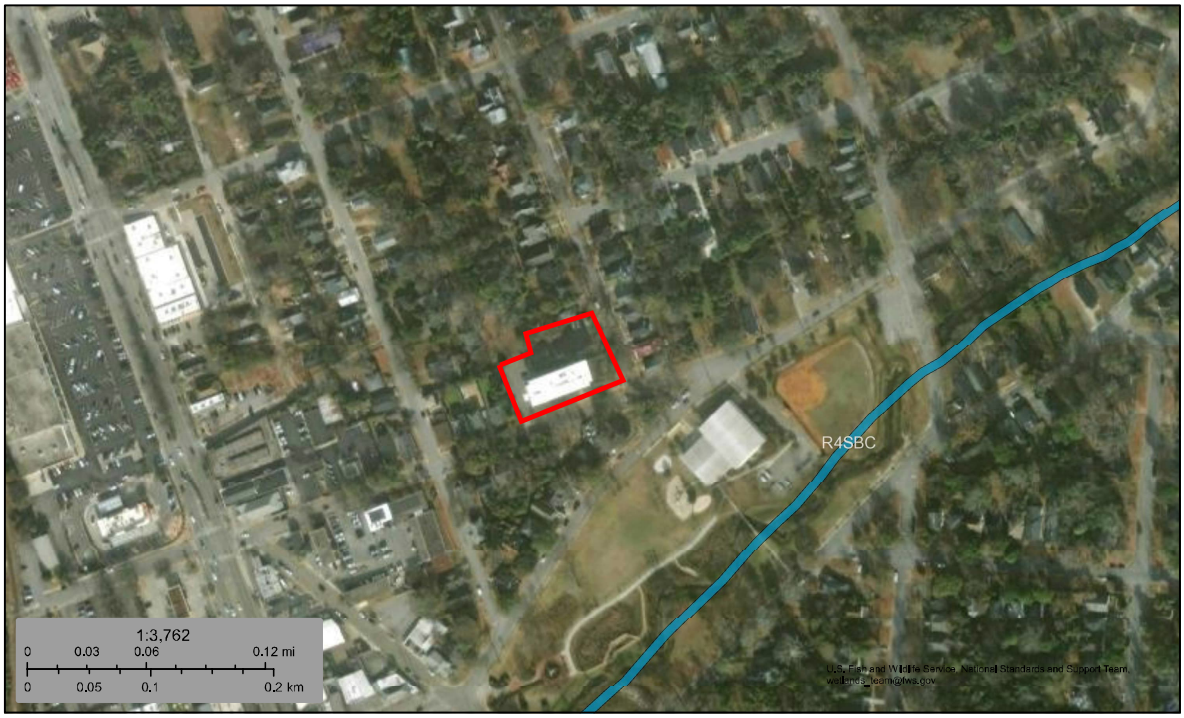
OIG HOTLINE Report Fraud, Waste & Abuse

Official website of the Department of Homeland Security

U.S. Fish and Wildlife Service
National Wetlands Inventory

NWI



May 9, 2025

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

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 Wetlands Inventory (NWI)
This page was produced by the NWI mapper

Appendix A National Wetland Inventory Map	↑ **N**	Arrington Manor 2225 College Street Columbia, South Carolina *USFWS National Wetlands Inventory*	**DOMINION DUE DILIGENCE GROUP**

Appendix B:

Site Plan

Appendix B Site Plan	↑ N	Arrington Manor (aka Fernwood at Five Points) 2225 College Street Columbia, South Carolina	**DOMINION DUE DILIGENCE GROUP**

Appendix C:

Site Photographs

1: View of the subject property signage

2: View of the subject property

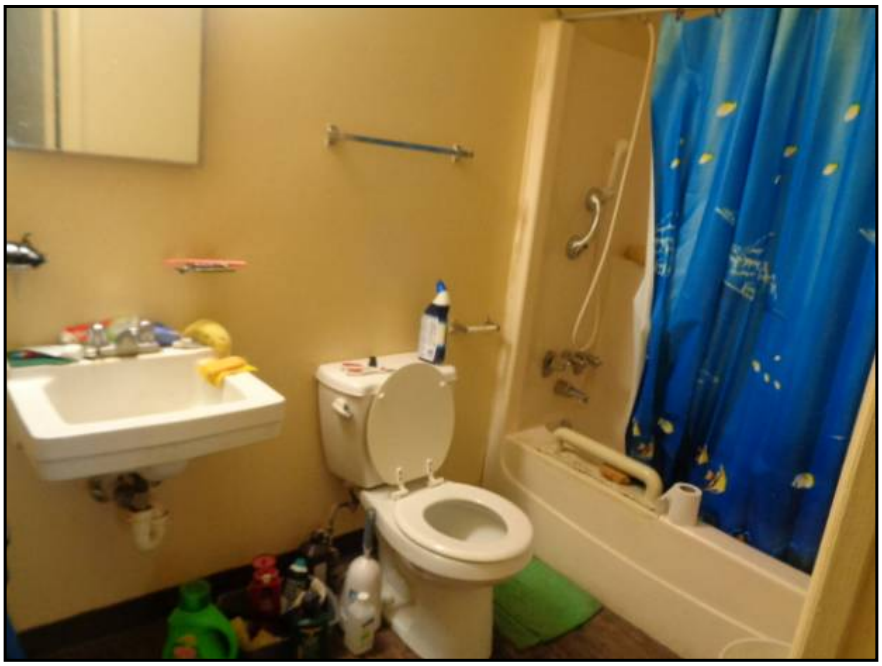
3: View of the subject property

4: View of the subject property

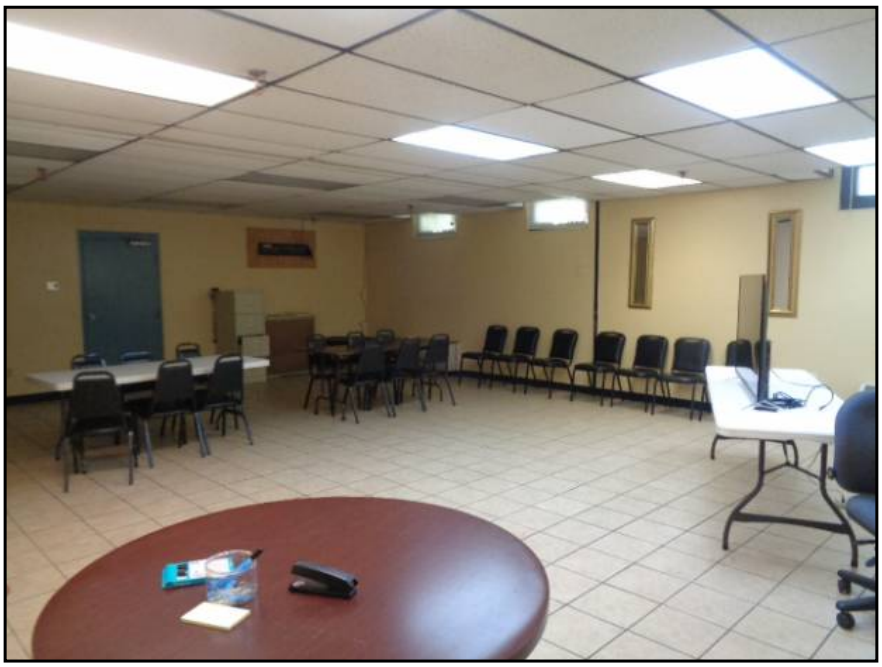
5: View of a typical residential unit kitchen

6: View of a typical residential unit living room

7: View of a typical residential unit bedroom



8: View of a typical residential unit bathroom



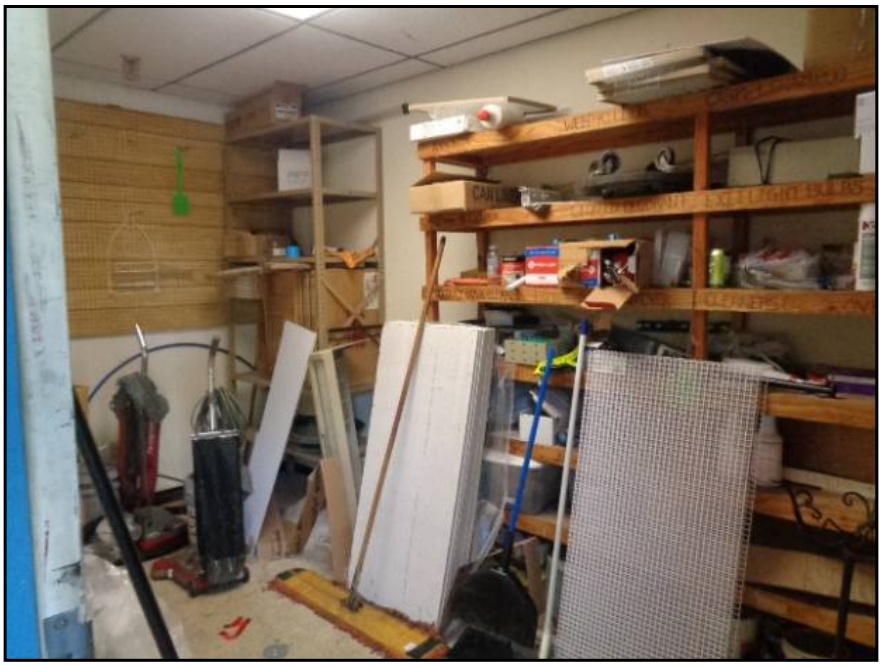
9: View of the community room

10: View of the community kitchen

11: View of the laundry facilities

12: View of typical office space

13: View of the fire pump room



14: View of the maintenance shop

15: View of a typical mechanical area

16: View of the on-site hydraulic elevator equipment

17: View of the on-site trash compactor

18: View of the out of use emergency generator and associated approximately 700-gallon diesel aboveground storage tank (AST)

19: View of a typical subject property dumpster

20: View of a typical parking area

21: View of the on-site pole-mounted electrical transformer


22: View of the on-site pad-mounted electrical transformer

23: View of the northern adjacent single-family residential

24: View of the western adjacent single-family residential

25: View of the eastern adjacent single-family residential

26: View of the southern adjacent undeveloped grassland

27: View of the southern adjacent single-family residential

28: View of the northern/western adjacent undeveloped grassland

Appendix D:

Historical Research Documents

Arrington Manor

2225 College Street

Columbia, SC 29205

Inquiry Number: 7339472.3

May 17, 2023

Certified Sanborn® Map Report

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

Certified Sanborn® Map Report

05/17/23

Site Name:	Client Name:
Arrington Manor	Dominion Environmental Group, Inc
2225 College Street	201 Wylderose Drive
Columbia, SC 29205	Midlothian, VA 23113
EDR Inquiry # 7339472.3	Contact: Alexis Belvin

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

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

Certified Sanborn Results:

Certification # 1D34-4E4A-B63C

PO # HPS-ENV-1

Project 2023-000878

Maps Provided:

1969
1965
1956
1950
1919

Sanborn® Library search results

Certification #: 1D34-4E4A-B63C

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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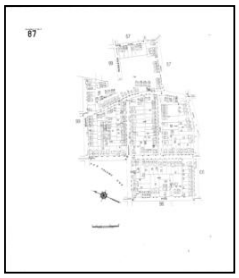
Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1965 Source Sheets



Volume 1A, Sheet 87
1965

Volume 1A, Sheet 66
1965

Volume 1A, Sheet 96
1965

1956 Source Sheets

Volume 1A, Sheet 66
1956

Volume 1A, Sheet 96
1956

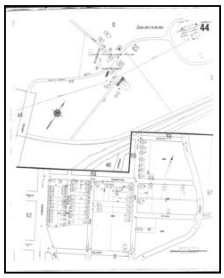
1950 Source Sheets

Volume 1A, Sheet 66
1950

Volume 1A, Sheet 87
1950

Volume 1, Sheet 44
1950

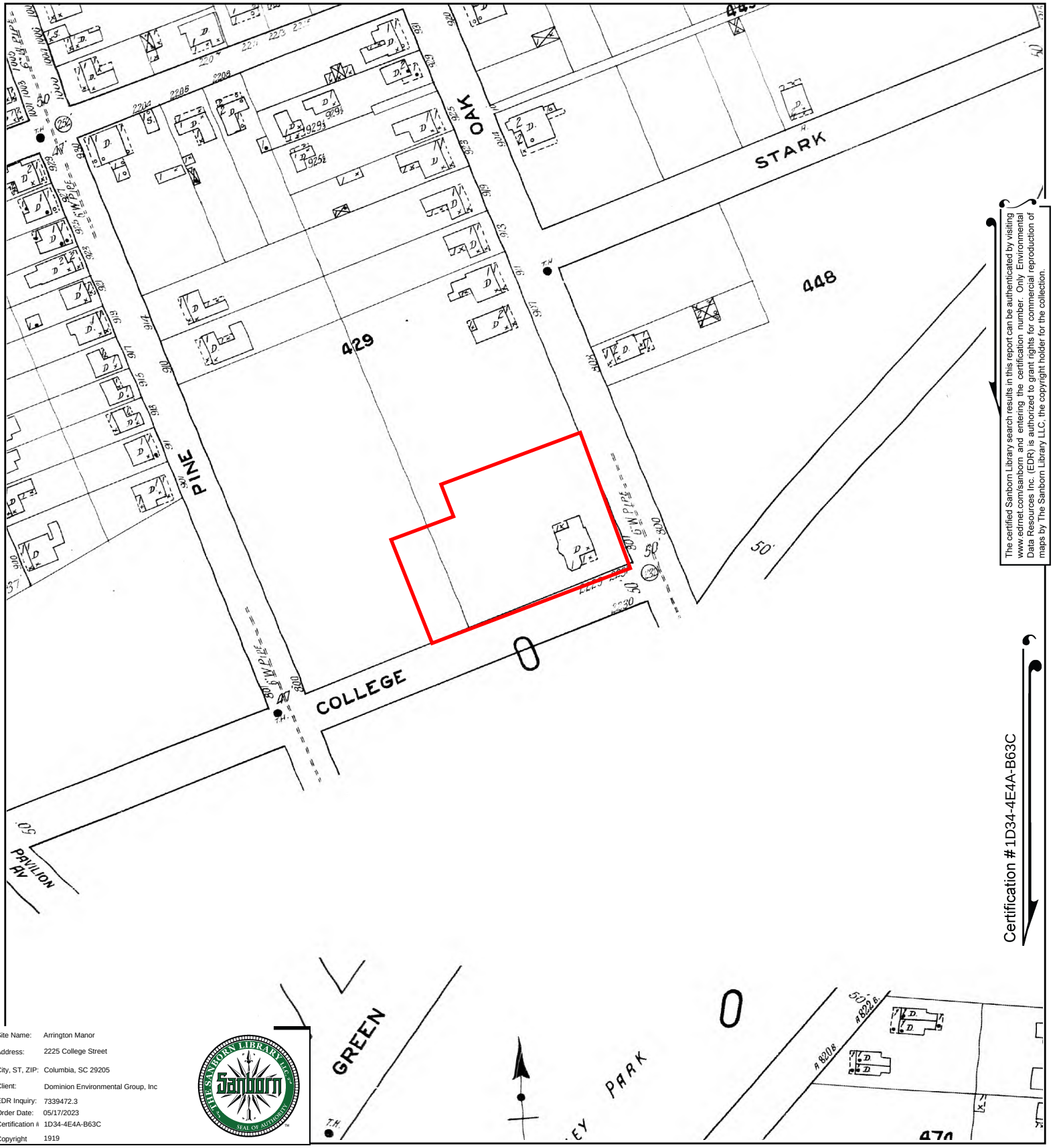
1919 Source Sheets



Volume 1, Sheet 44
1919

Certified Sanborn® Map

1919



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Address:	2225 College Street
City, ST, ZIP:	Columbia, SC 29205
Client:	Dominion Environmental Group, Inc
EDR Inquiry:	7339472.3
Order Date:	05/17/2023
Certification #	1D34-4E4A-B63C
Copyright	1919

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Outlined areas indicate map sheets within the collection.

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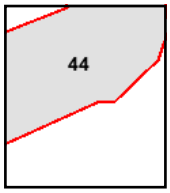
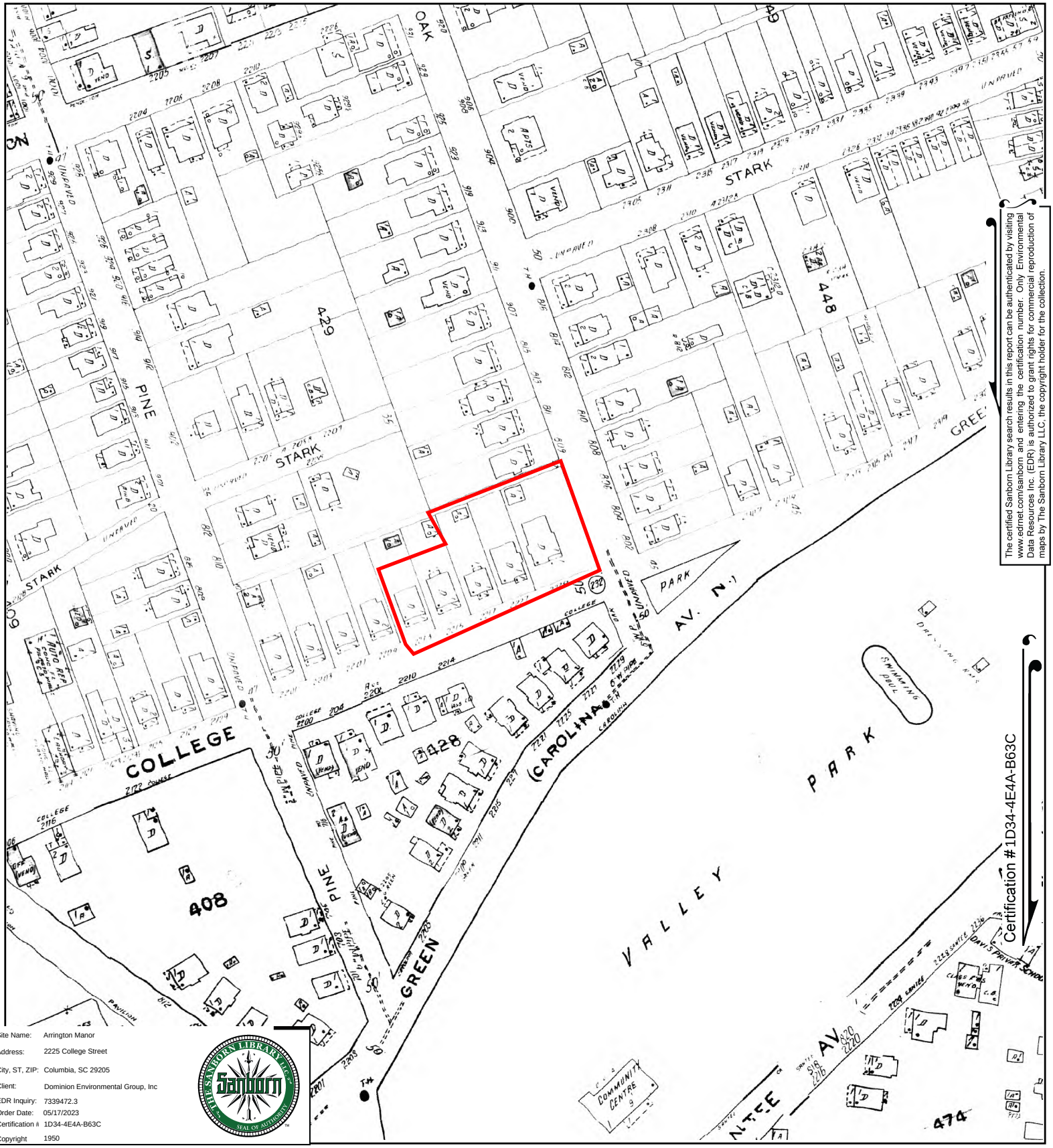


Volume 1, Sheet 44

N

Certified Sanborn® Map

1950



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Address:	2225 College Street
City, ST, ZIP:	Columbia, SC 29205
Client:	Dominion Environmental Group, Inc
EDR Inquiry:	7339472.3
Order Date:	05/17/2023
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Copyright	1950

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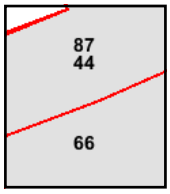

Volume 1, Sheet 44
Volume 1A, Sheet 87
Volume 1A, Sheet 66

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Certified Sanborn® Map

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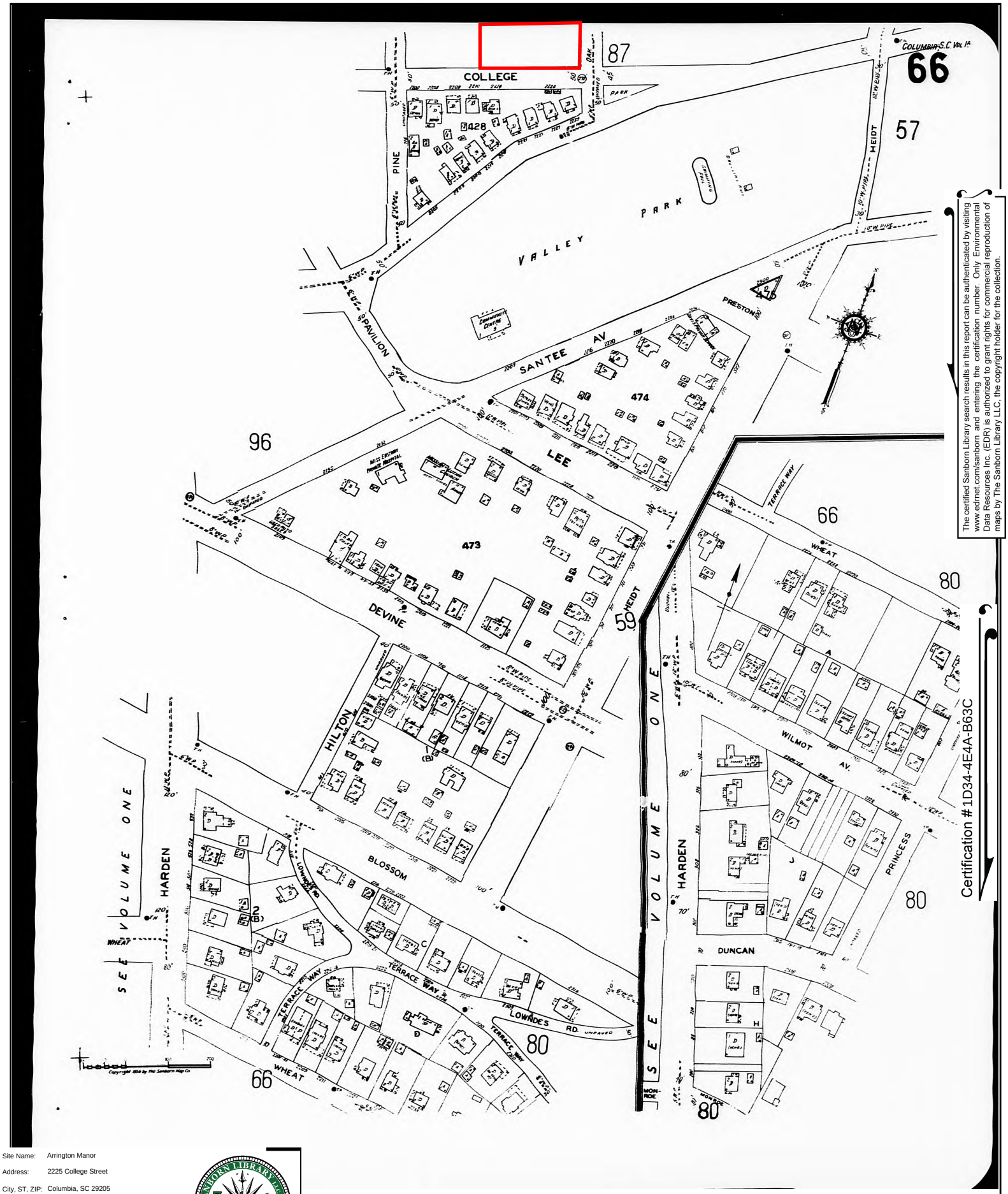
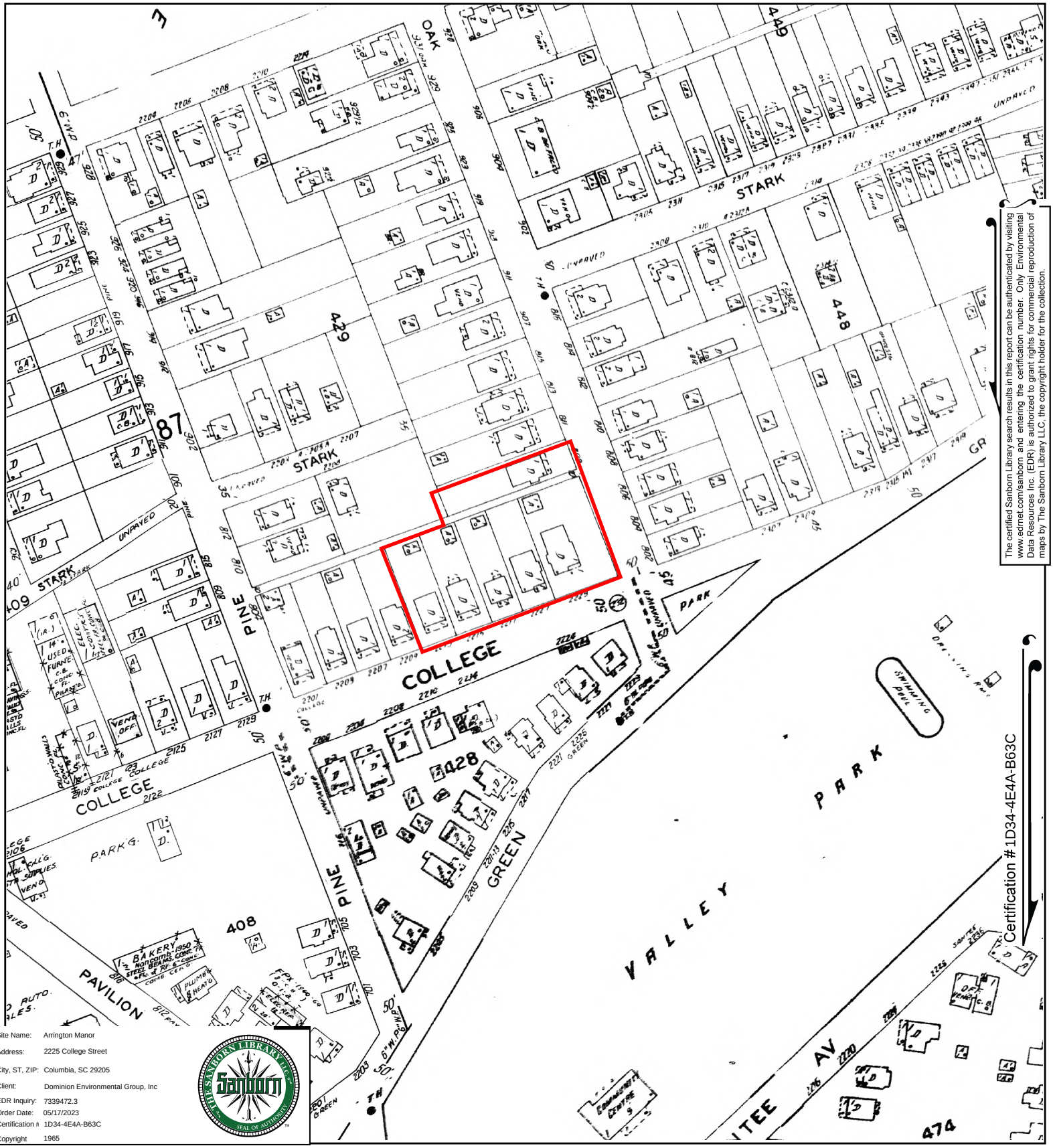


Certification # 1D34-4E4A-B63C

Site Name:	Arrington Manor
Address:	2225 College Street
City, ST, ZIP:	Columbia, SC 29205
Client:	Dominion Environmental Group, Inc
EDR Inquiry:	7339472.3
Order Date:	05/17/2023
Certification #	1D34-4E4A-B63C
Copyright	1956

Certified Sanborn® Map

1965



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Address:	2225 College Street
City, ST, ZIP:	Columbia, SC 29205
Client:	Dominion Environmental Group, Inc
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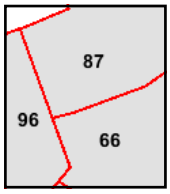

Volume 1A, Sheet 96
Volume 1A, Sheet 66
Volume 1A, Sheet 87

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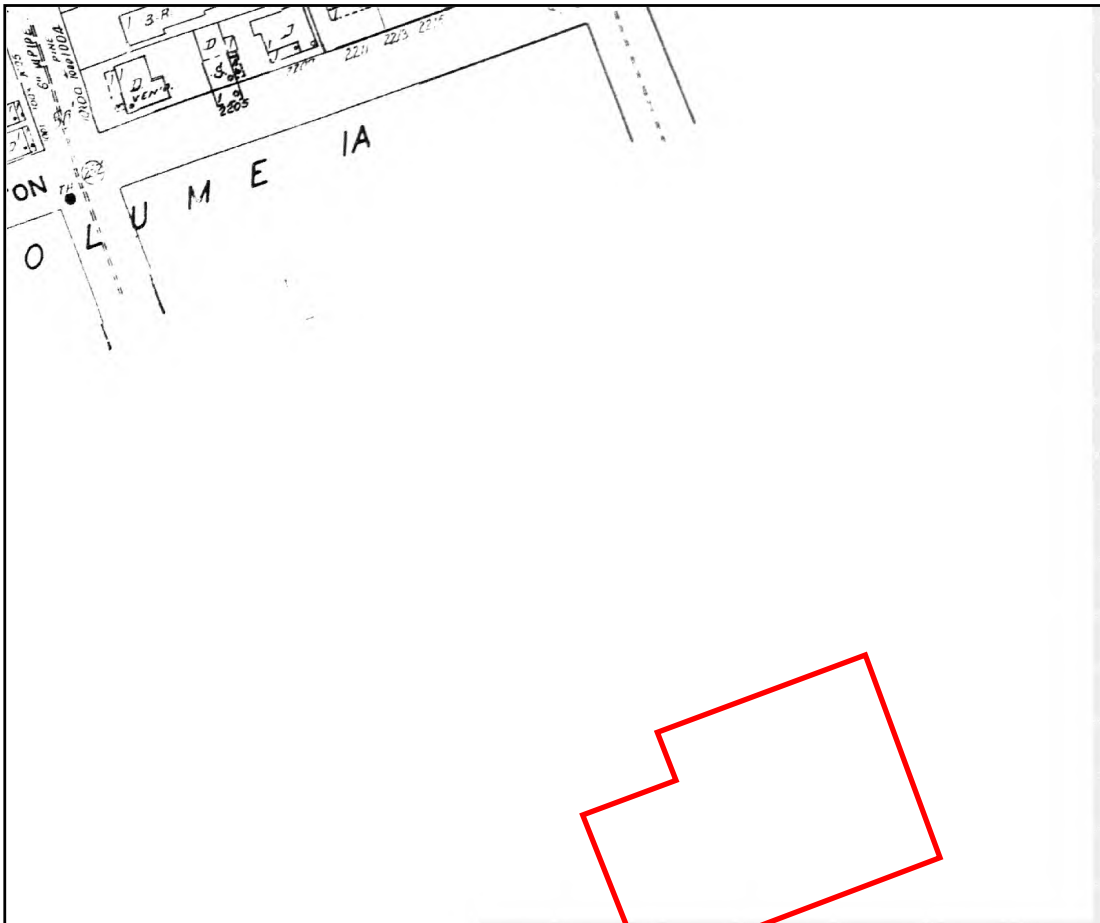
Certified Sanborn® Map

1969



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Site Name:	Arrington Manor
Address:	2225 College Street
City, ST, ZIP:	Columbia, SC 29205
Client:	Dominion Environmental Group, Inc
EDR Inquiry:	7339472.3
Order Date:	05/17/2023
Certification #	1D34-4E4A-B63C
Copyright	1969

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Outlined areas indicate map sheets within the collection.

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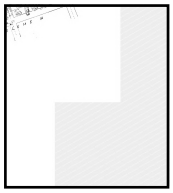

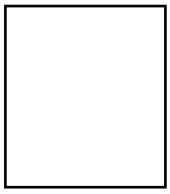

N

Arrington Manor

2225 College Street

Columbia, SC 29205

Inquiry Number: 7339472.5

May 17, 2023

The EDR Aerial Photo Decade Package

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

EDR Aerial Photo Decade Package

05/17/23

Site Name:

Arrington Manor
2225 College Street
Columbia, SC 29205
EDR Inquiry # 7339472.5

Client Name:

Dominion Environmental Group, Inc
201 Wylderose Drive
Midlothian, VA 23113
Contact: Alexis Belvin

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

Search Results:

Year	*Scale*	*Details*	*Source*
2019	1"=500'	Flight Year: 2019	USDA/NAIP
2015	1"=500'	Flight Year: 2015	USDA/NAIP
2011	1"=500'	Flight Year: 2011	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1994	1"=500'	Acquisition Date: January 01, 1994	USGS/DOQQ
1983	1"=500'	Flight Date: March 03, 1983	USDA
1981	1"=500'	Flight Date: February 05, 1981	USDA
1971	1"=500'	Flight Date: March 21, 1971	USGS
1966	1"=500'	Flight Date: February 19, 1966	USDA
1964	1"=500'	Flight Date: October 07, 1964	USGS
1955	1"=500'	Flight Date: March 29, 1955	USDA
1951	1"=500'	Flight Date: May 15, 1951	USDA
1943	1"=500'	Flight Date: May 22, 1943	USDA
1938	1"=500'	Flight Date: April 25, 1938	USDA

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INQUIRY #: 7339472.5

YEAR: 1938

= 500'

N

EDR


INQUIRY #: 7339472.5
YEAR: 1943
= 500'
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EDR

INQUIRY #: 7339472.5

YEAR: 1951

= 500'

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EDR

INQUIRY #: 7339472.5

YEAR: 1955

= 500'

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EDR

INQUIRY #: 7339472.5

YEAR: 1964

= 500'

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EDR

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EDR

INQUIRY #: 7339472.5

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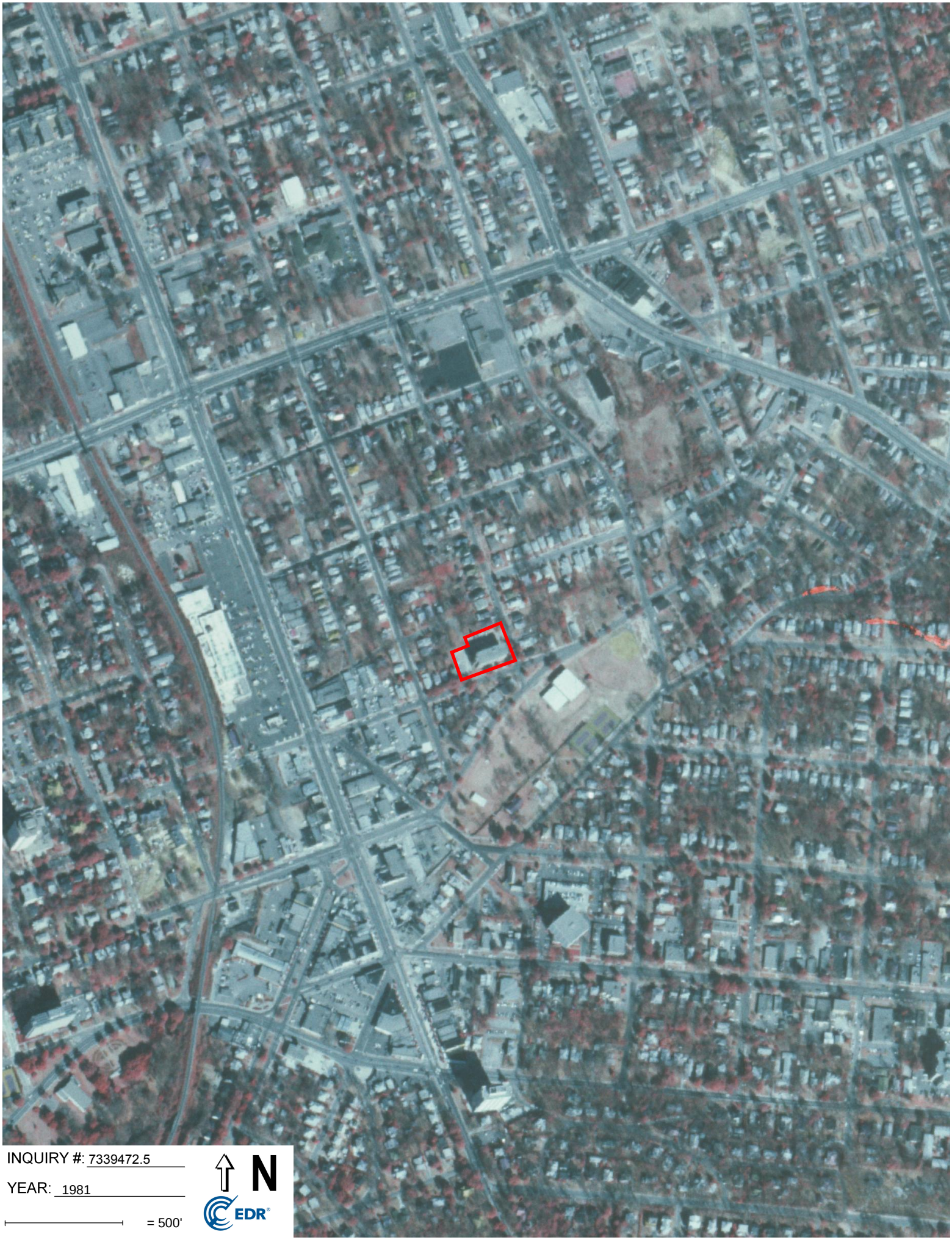
EDR



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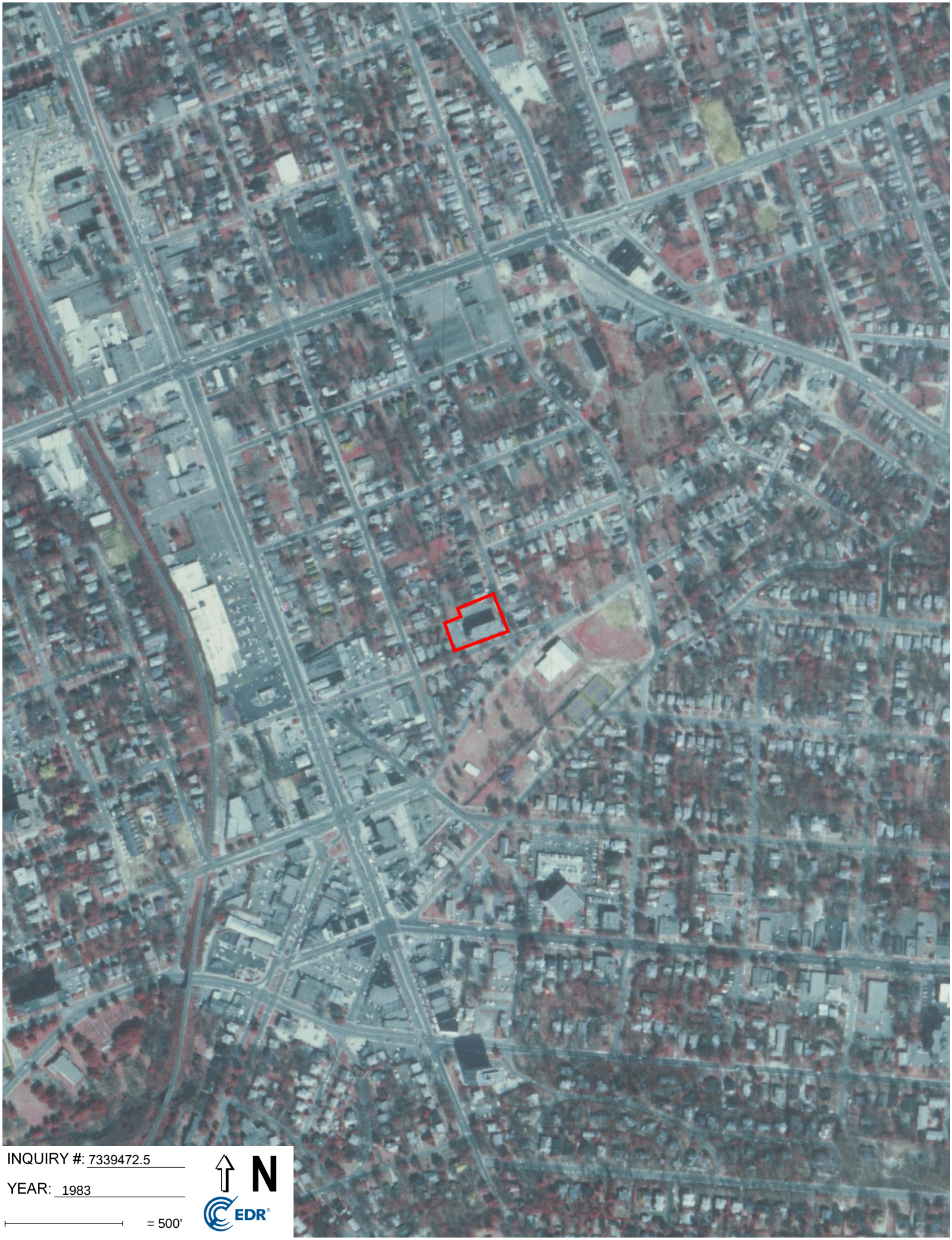
EDR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YEAR: 1983
= 500'
N
EDR

INQUIRY #: 7339472.5

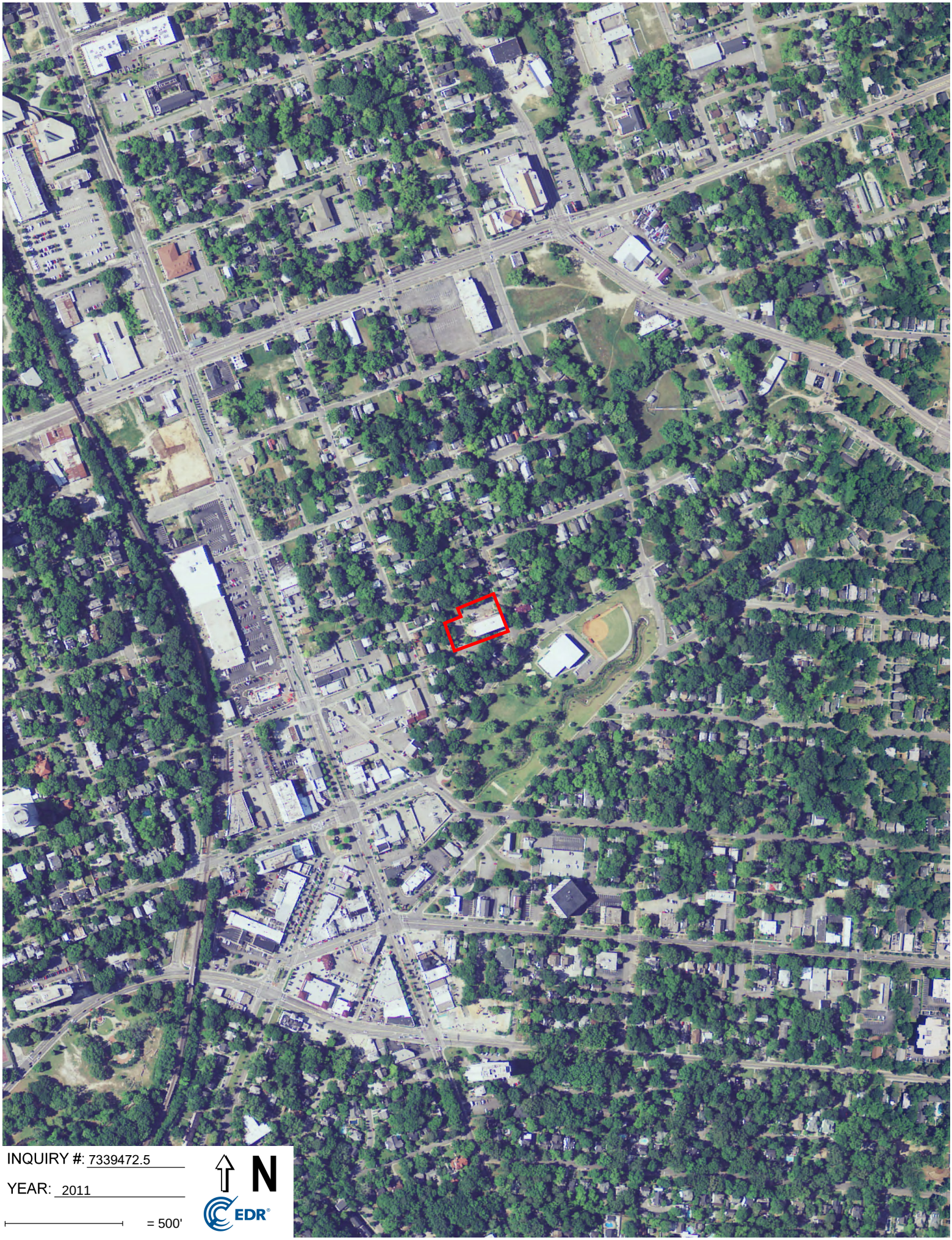
YEAR: 1994

= 500'

N

EDR


INQUIRY #: 7339472.5
YEAR: 2006
= 500'
N
EDR



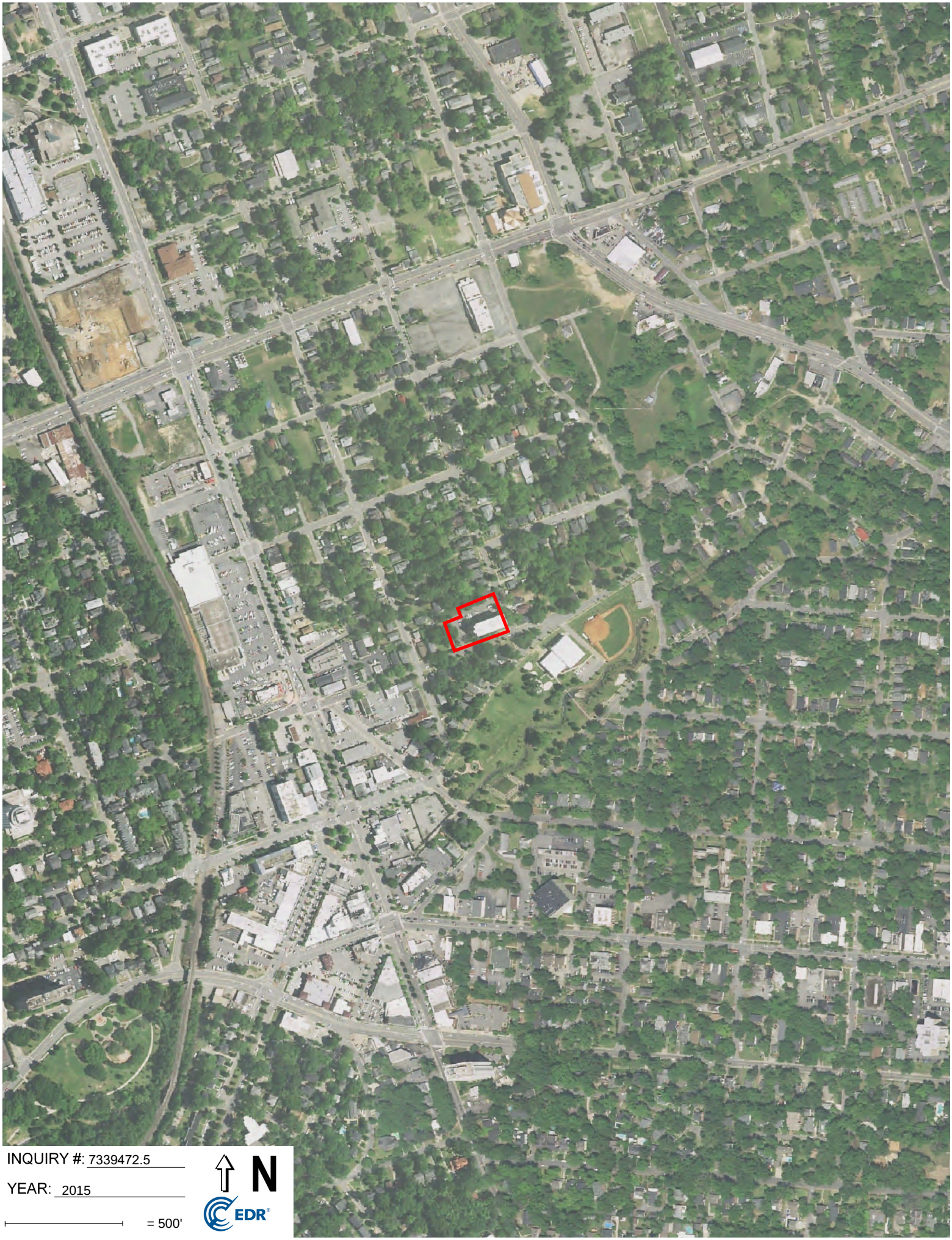
INQUIRY #: 7339472.5

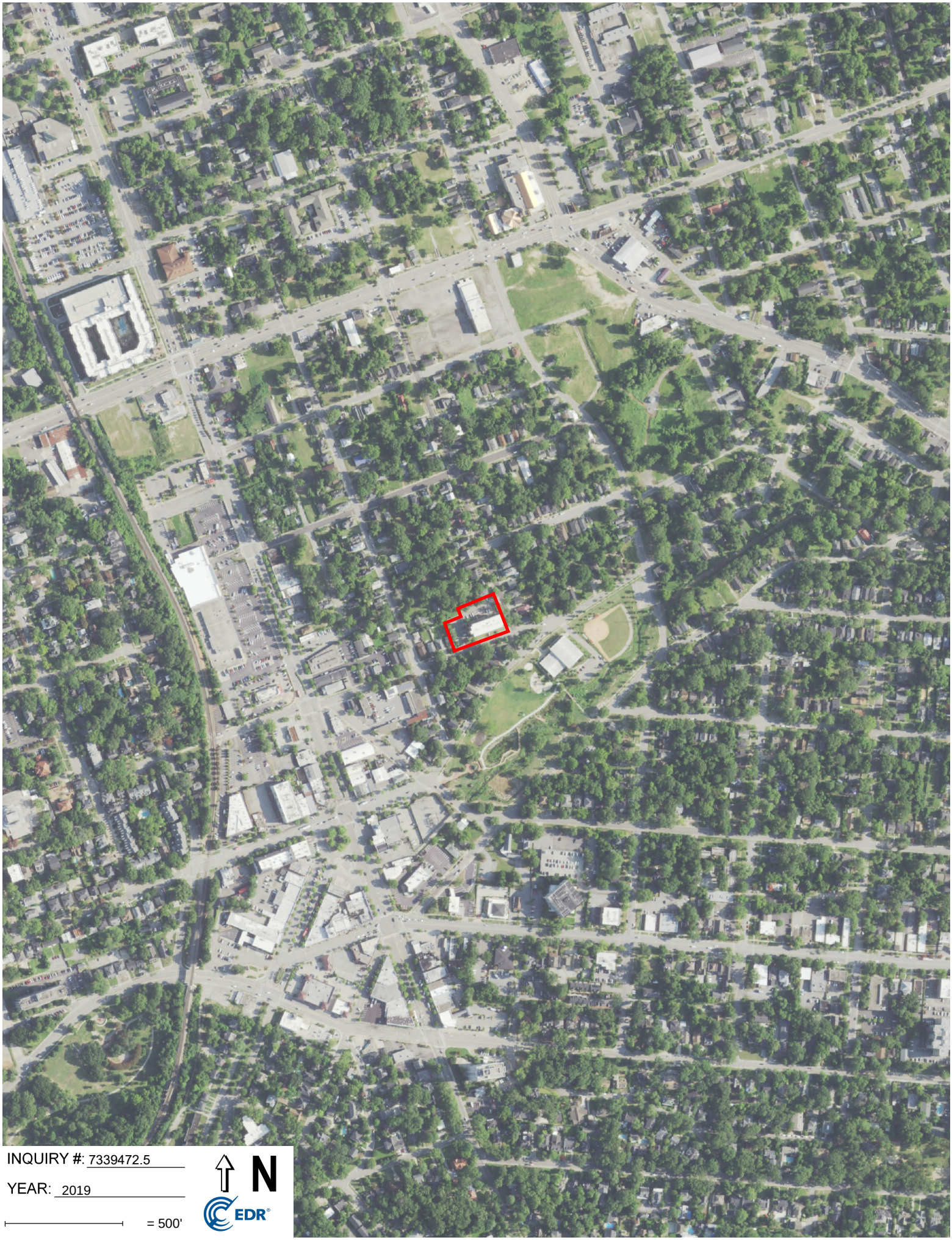
YEAR: 2011

= 500'

N

EDR


INQUIRY #: 7339472.5
YEAR: 2015
= 500'
N
EDR



INQUIRY #: 7339472.5

YEAR: 2019

= 500'

N

EDR

Appendix E:

Regulatory Records Documentation

Arrington Manor
2225 College Street
Columbia, SC 29205

Inquiry Number: 7984093.2s
May 09, 2025

FirstSearch Area/Linear Report

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

Search Summary Report

TARGET SITE **2225 COLLEGE STREET**
COLUMBIA, SC 29205

Category	Sel	Site	1/8	1/4	1/2	> 1/2	ZIP	TOTALS
NPL	Y	0	0	0	0	0	0	0
NPL Delisted	Y	0	0	0	0	-	0	0
CERCLIS	Y	0	0	0	0	-	0	0
NFRAP	Y	0	0	0	0	-	0	0
RCRA COR ACT	Y	0	0	0	0	0	0	0
RCRA TSD	Y	0	0	0	0	-	0	0
RCRA GEN	Y	0	0	1	-	-	0	1
Federal IC / EC	Y	0	0	-	-	-	0	0
ERNS	Y	0	0	-	-	-	0	0
State/Tribal CERCLIS	Y	0	1	0	5	14	1	21
State/Tribal SWL	Y	0	0	0	0	0	0	0
State/Tribal LTANKS	Y	1	1	3	12	-	3	20
State/Tribal Tanks	Y	1	2	4	-	-	0	7
State/Tribal IC / EC	Y	0	0	2	3	-	0	5
State/Tribal VCP	Y	0	0	0	3	-	0	3
ST/Tribal Brownfields	Y	0	0	0	3	-	0	3
US Brownfields	Y	0	0	1	1	-	0	2
Other SWF	Y	0	0	0	0	-	0	0
Other Haz Sites	Y	0	0	0	2	-	0	2
Spills	Y	0	0	-	-	-	0	0
Other	Y	2	4	9	12	-	0	27
EDR Exclusive	Y	0	1	-	-	-	0	1
Exclusive Recovered Govt. Archives	Y	1	-	-	-	-	0	1
	- Totals --	5	9	20	41	14	4	93

Search Summary Report

TARGET SITE: **2225 COLLEGE STREET**
COLUMBIA, SC 29205

Category	Database	Update	Radius	Site	1/8	1/4	1/2	> 1/2	ZIP	TOTALS
NPL	NPL	03/27/2025	1.000	0	0	0	0	0	0	0
	Proposed NPL	03/27/2025	1.000	0	0	0	0	0	0	0
	NPL LIENS	10/15/1991	TP	0	-	-	-	-	0	0
NPL Delisted	Delisted NPL	03/27/2025	0.500	0	0	0	0	-	0	0
CERCLIS	FEDERAL FACILITY	11/20/2024	0.500	0	0	0	0	-	0	0
	SEMS	03/27/2025	0.500	0	0	0	0	-	0	0
NFRAP	SEMS-ARCHIVE	03/27/2025	0.500	0	0	0	0	-	0	0
RCRA COR ACT	CORRACTS	02/17/2025	1.000	0	0	0	0	0	0	0
RCRA TSD	RCRA-TSDF	02/17/2025	0.500	0	0	0	0	-	0	0
RCRA GEN	RCRA-LQG	02/17/2025	0.250	0	0	0	-	-	0	0
	RCRA-SQG	02/17/2025	0.250	0	0	0	-	-	0	0
	RCRA-VSQG	02/17/2025	0.250	0	0	1	-	-	0	1
Federal IC / EC	LUCIS	11/11/2024	0.125	0	0	-	-	-	0	0
	US ENG CONTROLS	01/29/2025	0.125	0	0	-	-	-	0	0
	US INST CONTROLS	01/29/2025	0.125	0	0	-	-	-	0	0
ERNS	ERNS	12/03/2024	0.125	0	0	-	-	-	0	0
State/Tribal CERCLIS	SHWS	03/18/2024	1.000	0	1	0	5	14	1	21
State/Tribal SWL	SWF/LF	02/04/2025	0.750	0	0	0	0	0	0	0
State/Tribal LTANKS	LUST	02/10/2025	0.500	1	1	3	12	-	3	20
	INDIAN LUST	11/18/2024	0.500	0	0	0	0	-	0	0
State/Tribal Tanks	FEMA UST	04/08/2025	0.250	0	0	0	-	-	0	0
	UST	10/07/2024	0.250	1	2	4	-	-	0	7
	AST	03/25/2004	0.250	0	0	0	-	-	0	0
	INDIAN UST	11/18/2024	0.250	0	0	0	-	-	0	0
State/Tribal IC / EC	RCR	10/01/2024	0.500	0	0	2	3	-	0	5
	AUL	12/02/2024	0.125	0	0	-	-	-	0	0
State/Tribal VCP	INDIAN VCP	07/27/2015	0.500	0	0	0	0	-	0	0

Search Summary Report

TARGET SITE: **2225 COLLEGE STREET**
COLUMBIA, SC 29205

Category	Database	Update	Radius	Site	1/8	1/4	1/2	> 1/2	ZIP	TOTALS
	VCP	03/11/2025	0.500	0	0	0	3	-	0	3
ST/Tribal Brownfields	BROWNFIELDS	01/07/2025	0.500	0	0	0	3	-	0	3
US Brownfields	US BROWNFIELDS	09/09/2024	0.500	0	0	1	1	-	0	2
Other SWF	INDIAN ODI	12/31/1998	0.500	0	0	0	0	-	0	0
	ODI	06/30/1985	0.500	0	0	0	0	-	0	0
Other Haz Sites	ALLSITES	12/02/2024	0.500	0	0	0	2	-	0	2
Spills	SPILLS	12/09/2024	0.125	0	0	-	-	-	0	0
Other	RCRA NonGen / NLR	02/17/2025	0.250	0	0	3	-	-	0	3
	SCRD DRYCLEANERS	07/30/2021	0.125	0	0	-	-	-	0	0
	TRIS	12/31/2023	TP	0	-	-	-	-	0	0
	RADINFO	07/01/2019	TP	0	-	-	-	-	0	0
	INDIAN RESERV	12/31/2014	1.000	0	0	0	0	0	0	0
	UMTRA	02/12/2025	0.125	0	0	-	-	-	0	0
	LEAD SMELTERS	03/27/2025	TP	0	-	-	-	-	0	0
	US MINES	02/03/2025	0.125	0	0	-	-	-	0	0
	ABANDONED MINES	12/10/2024	0.125	0	0	-	-	-	0	0
	PFAS PROJECT	05/19/2023	0.250	0	0	0	-	-	0	0
	UST FINDER	06/08/2023	0.250	1	2	4	-	-	0	7
	UST FINDER RELEASE	06/08/2023	0.500	1	1	2	12	-	0	16
	AIRS	11/18/2024	TP	0	-	-	-	-	0	0
	DRYCLEANERS	04/26/2023	0.125	0	1	-	-	-	0	1
	GWCI	07/01/2008	0.125	0	0	-	-	-	0	0
EDR Exclusive	EDR MGP	08/28/2009	0.125	0	0	-	-	-	0	0
	EDR Hist Auto	02/20/2007	0.125	0	0	-	-	-	0	0
	EDR Hist Cleaner	02/20/2007	0.125	0	1	-	-	-	0	1
Exclusive Recovered Government Archives	RGA HWS		TP	0	-	-	-	-	0	0
	RGA LF		TP	0	-	-	-	-	0	0
	RGA LUST		TP	1	-	-	-	-	0	1
	- Totals --			5	9	20	41	14	4	93

Site Information Report

Request Date:	MAY 9, 2025	**Search Type:**	COORD
Request Name:	BRANDON R VIDRA	**Job Number:**	HPS ENV-1

Target Site: 2225 COLLEGE STREET
COLUMBIA, SC 29205

Site Location

	Degrees (Decimal)	Degrees (Min/Sec)		UTMs
Longitude:	81.014643	81.0146430 - 81˚ 0' 52.71''	Easting:	498647.8
Latitude:	34.002628	34.0026280 - 34˚ 0' 9.46''	Northing:	3762253.0
Elevation:	253 ft. above sea level		Zone:	Zone 17

Demographics

Sites: 89 **Non-Geocoded:** 4 **Population:** N/A

RADON

Federal EPA Radon Zone for RICHLAND County: 3

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

Federal Area Radon Information for Zip Code: 29205

Number of sites tested: 5

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.620 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	1.100 pCi/L	100%	0%	0%

Federal Area Radon Information for RICHLAND COUNTY, SC

Number of sites tested: 83

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.610 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	1.345 pCi/L	89%	11%	0%

Site Information Report

RADON

State Database: SC Radon

Radon Test Results

Zipcode	Average	Num Tests	Minimum	Maximum	% > 4 pCi/L
29205	1.1	79	0.3	5.7	2.5

Target Site Summary Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

TOTAL: 93 GEOCODED: 89 NON GEOCODED: 4

Map ID	DB Type --ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
A1	UST FINDER RELEASE	ARRINGTON MANOR HIGH RISE	2225 COLLEGE ST COLUMBIA, SC	0.00	+ 0	1
A1	UST FINDER	ARRINGTON MANOR HIGH RISE	2225 COLLEGE ST COLUMBIA, SC	0.00	+ 0	2
A2	UST --07323	ARRINGTON MANOR HIGH RISE	2225 COLLEGE ST COLUMBIA, SC 29205	0.00	+ 0	3
A2	LUST --01/13/1993 --07323 --PETRO	ARRINGTON MANOR HIGH RISE	2225 COLLEGE ST COLUMBIA, SC 29205	0.00	+ 0	4
A3	RGA LUST	ARRINGTON MANOR HIGH RISE	2225 COLLEGE ST COLUMBIA, SC	0.00	+ 0	5

Sites Summary Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

TOTAL: 93 GEOCODED: 89 NON GEOCODED: 4

Map ID	DB Type --ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
B4	UST FINDER RELEASE	GREGORY ELECTRIC CO	2124 COLLEGE ST COLUMBIA, SC	0.06 SW	- 10	6
B4	UST FINDER	GREGORY ELECTRIC CO	2124 COLLEGE ST COLUMBIA, SC	0.06 SW	- 10	7
B5	UST --11379	GREGORY ELECTRIC CO	2124 COLLEGE ST COLUMBIA, SC 29205	0.06 SW	- 10	9
B5	LUST --03/19/1993 --11379 --PETRO	GREGORY ELECTRIC CO	2124 COLLEGE ST COLUMBIA, SC 29205	0.06 SW	- 10	10
B6	UST --07821	COLUMBIA CABLE TV CO INC	2123 COLLEGE ST COLUMBIA, SC 29205	0.08 WSW	- 11	11
B7	UST FINDER	COLUMBIA CABLE TV CO INC	2123 COLLEGE ST COLUMBIA, SC	0.08 WSW	- 11	12
C8	DRYCLEANERS --52843	TRIPP'S FINE CLEANERS	830 HARDEN ST COLUMBIA, SC 29205	0.12 SW	- 28	14
C8	SHWS --SCDRY0052843	TRIPP'S FINE CLEANERS	830 HARDEN ST COLUMBIA, SC 29205	0.12 SW	- 28	15
C9	EDR Hist Cleaner	PENTERPRISES INC	830 HARDEN ST COLUMBIA, SC 29205	0.12 SW	- 28	16
C10	RCRA NonGen / NLR --SCR000776401	RITE AID 11583	818 HARDEN ST COLUMBIA, SC 29205	0.13 SW	- 28	17
C11	UST FINDER RELEASE	CORNER PANTRY 118	831 HARDEN ST COLUMBIA, SC	0.15 SW	- 28	26
C11	UST FINDER	CORNER PANTRY 118	831 HARDEN ST COLUMBIA, SC	0.15 SW	- 28	27
C12	RCRA NonGen / NLR --SCD987587078	SOMMERS 318	831 HARDEN ST COLUMBIA, SC 29205	0.15 SW	- 28	30
C13	RCR	CORNER PANTRY 118	831 HARDEN ST COLUMBIA, SC 29205	0.15 SW	- 28	35

Sites Summary Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

TOTAL: 93 GEOCODED: 89 NON GEOCODED: 4

Map ID	DB Type --ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
C13	UST --07765	CORNER PANTRY 118	831 HARDEN ST COLUMBIA, SC 29205	0.15 SW	- 28	36
C13	LUST --05/21/2012 --07765 --PETROL	CORNER PANTRY 118	831 HARDEN ST COLUMBIA, SC 29205	0.15 SW	- 28	38
14	US BROWNFIELDS	PENDLETON STREET PROPERTY	2346 PENDLETON ST. COLUMBIA, SC 29205	0.15 NNE	- 10	39
C15	RCRA-VSQG --SCD981930589	TRIPPS FINE CLEANERS	819 HARDEN ST COLUMBIA, SC 29205	0.15 SW	- 29	42
D16	UST --18950	MARKETPLACE AT HARDEN STREET	1001 HARDEN ST COLUMBIA, SC 29205	0.16 West	- 24	47
D17	UST FINDER	MARKETPLACE AT HARDEN STREET	1001 HARDEN ST COLUMBIA, SC 29205	0.16 West	- 24	49
E18	UST FINDER RELEASE	R L NEWMAN EXXON 4 2563	727 HARDEN ST COLUMBIA, SC 29205	0.21 SSW	- 37	52
E18	UST FINDER	R L NEWMAN EXXON 4 2563	727 HARDEN ST COLUMBIA, SC 29205	0.21 SSW	- 37	53
E19	UST FINDER	FIVE POINTS EXXON	727 HARDEN ST COLUMBIA, SC 29205	0.21 SSW	- 37	55
E20	UST --07641	R L NEWMAN EXXON 4 2563	727 HARDEN ST COLUMBIA, SC 29205	0.21 SSW	- 37	57
E20	LUST --05/12/1999 --07641 --PETRO	R L NEWMAN EXXON 4 2563	727 HARDEN ST COLUMBIA, SC 29205	0.21 SSW	- 37	59
E21	UST --16865	FIVE POINTS EXXON	727 HARDEN ST COLUMBIA, SC 29205	0.21 SSW	- 37	60
E21	LUST --16865 --PETROL	FIVE POINTS EXXON	727 HARDEN ST COLUMBIA, SC 29205	0.21 SSW	- 37	62

Sites Summary Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

TOTAL: 93 GEOCODED: 89 NON GEOCODED: 4

Map ID	DB Type --ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
E22	RCR	R L NEWMAN EXXON 4 2563	727 HARDEN ST COLUMBIA, SC 29205	0.21 SSW	- 37	63
E23	RCRA NonGen / NLR --SCD987578283	EXXON LOCATION 4-2563	727 HARDEN STREET COLUMBIA, SC 29205	0.21 SSW	- 37	64
F24	RCR	CIRCLE K 8099	2100 DEVINE ST COLUMBIA, SC 29205	0.25 South	- 34	67
F24	LUST --01/10/2013 --07718 --PETRO	CIRCLE K 8099	2100 DEVINE ST COLUMBIA, SC 29205	0.25 South	- 34	68
F25	UST FINDER RELEASE	CIRCLE K 8099	2100 DEVINE ST COLUMBIA, SC	0.25 South	- 34	69
G26	UST FINDER RELEASE	FORMER KAYO/SOC SERVICE STATIO	2250 GERVAIS ST COLUMBIA, SC 29671	0.26 NNW	+ 33	70
G27	LUST --10/03/2005 --19143	N-19143 FORMER KAYO/SOC SERVIC	2250 GERVAIS ST COLUMBIA, SC	0.26 NNW	+ 33	71
H28	UST FINDER RELEASE	T J HARRELSON CO	2000 GREENE ST COLUMBIA, SC	0.26 SW	- 19	72
H29	LUST --02/03/1995 --11658 --PETRO	T J HARRELSON CO	2000 GREENE ST COLUMBIA, SC 29205	0.26 SW	- 19	73
I30	UST FINDER RELEASE	SPEEDWAY 289	2106 GERVAIS ST COLUMBIA, SC	0.29 NW	+ 13	74
I31	LUST --07757 --PETRO	SPEEDWAY 289	2106 GERVAIS ST COLUMBIA, SC 29203	0.29 NW	+ 13	75
J32	ALLSITES --ACTIVE	WACHOVIA BANK FIVE POINTS	705 SALUDA AVE COLUMBIA, SC 29205	0.31 SW	- 35	76
J32	BROWNFIELDS --ACTIVE --59420	WACHOVIA BANK FIVE POINTS	705 SALUDA AVE COLUMBIA, SC 29205	0.31 SW	- 35	77

Sites Summary Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

TOTAL: 93 GEOCODED: 89 NON GEOCODED: 4

Map ID	DB Type --ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
J32	VCP	WACHOVIA BANK FIVE POINTS	705 SALUDA AVE COLUMBIA, SC 29205	0.31 SW	- 35	78
J32	SHWS --SCS123458035	WACHOVIA BANK FIVE POINTS	705 SALUDA AVE COLUMBIA, SC 29205	0.31 SW	- 35	80
K33	UST FINDER RELEASE	EXXON 4 6087	2020 GERVAIS ST COLUMBIA, SC 29204	0.31 NW	+ 5	81
K34	LUST --13962 --PETRO	EXXON 4 6087	2020 GERVAIS ST COLUMBIA, SC 29204	0.31 NW	+ 5	82
J35	SHWS --SCDRY0056171	MASTER CLEANERS INC	1907 BLOSSOM ST COLUMBIA, SC 29205	0.32 SW	- 37	83
K36	BROWNFIELDS --COMP --58214	GREYHOUND BUS TERMINAL	2017 GERVAIS ST COLUMBIA, SC 29201	0.35 NW	- 2	84
K36	VCP	GREYHOUND BUS TERMINAL	2017 GERVAIS ST COLUMBIA, SC 29201	0.35 NW	- 2	85
K37	UST FINDER RELEASE	TRAILWAYS BUS LINES	2015 GERVAIS ST COLUMBIA, SC 29205	0.35 NW	- 2	87
K38	LUST --08/02/1995 --16930 --PETRO	BURNSIDE DODGE	2005 GERVAIS ST COLUMBIA, SC 29201	0.35 NW	- 2	88
K39	LUST --08/02/1995 --16931 --PETRO	FORMER HORACE BEECH AUTO SERV	2023 GERVAIS ST COLUMBIA, SC 29201	0.35 NW	- 2	89
K40	SHWS --SCS123457644	GREYHOUND BUS TERMINAL	2017 GERVAIS ST COLUMBIA, SC 29201	0.35 NW	- 2	90
K41	UST FINDER RELEASE	BURNSIDE DODGE	2005 GERVAIS ST COLUMBIA, SC 29201	0.35 NW	- 2	91
K42	UST FINDER RELEASE	FORMER HORACE BEECH AUTO SERV	2023 GERVAIS ST COLUMBIA, SC 29201	0.35 NW	- 2	92

Sites Summary Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

TOTAL: 93 GEOCODED: 89 NON GEOCODED: 4

Map ID	DB Type --ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
K43	LUST --12/30/1994 --14551 --PETRO	TRAILWAYS BUS LINES	2015 GERVAIS ST COLUMBIA, SC 29205	0.35 NW	- 2	93
K44	US BROWNFIELDS	THE STATION @ FIVE POINTS	2025 GERVAIS ST. COLUMBIA, SC 29204	0.35 NW	- 2	94
45	SHWS --SCDRY0051122	MASTER CLEANERS	1908 BLOSSOM ST COLUMBIA, SC 29205	0.37 SW	- 37	103
L46	UST FINDER RELEASE	CONSTAN INC	1950 GERVAIS ST COLUMBIA, SC 0	0.37 WNW	- 10	104
L47	RCR	CONSTAN INC	1950 GERVAIS ST COLUMBIA, SC 29201	0.37 WNW	- 10	106
L47	LUST --07/31/2017 --07871 --PETRO	CONSTAN INC	1950 GERVAIS ST COLUMBIA, SC 29201	0.37 WNW	- 10	107
M48	UST FINDER RELEASE	BUDDY MONTGOMERY AUTO SALES	1239 HARDEN ST COLUMBIA, SC	0.39 NW	+ 29	109
M49	LUST --03/12/1997 --16001 --PETRO	BUDDY MONTGOMERY AUTO SALES	1239 HARDEN ST COLUMBIA, SC 29204	0.39 NW	+ 29	110
N50	UST FINDER RELEASE	IMPORTS ONLY INC	1300 N MILLWOOD AVE COLUMBIA, SC 29204	0.42 North	+ 18	111
N51	ALLSITES --ACTIVE	IMPORTS ONLY INC	1300 N MILLWOOD AVE COLUMBIA, SC 29204	0.42 North	+ 18	112
N51	BROWNFIELDS --ACTIVE --59370	IMPORTS ONLY INC	1300 N MILLWOOD AVE COLUMBIA, SC 29204	0.42 North	+ 18	113
N51	VCP	IMPORTS ONLY INC	1300 N MILLWOOD AVE COLUMBIA, SC 29204	0.42 North	+ 18	114
N51	RCR	IMPORTS ONLY INC	1300 N MILLWOOD AVE COLUMBIA, SC 29204	0.42 North	+ 18	116

Sites Summary Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

TOTAL: 93 GEOCODED: 89 NON GEOCODED: 4

Map ID	DB Type --ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
N51	LUST --07/28/2022 --18184 --PETRO	IMPORTS ONLY INC	1300 N MILLWOOD AVE COLUMBIA, SC 29204	0.42 North	+ 18	117
N51	SHWS --SCS123458013	IMPORTS ONLY INC	1300 N MILLWOOD AVE COLUMBIA, SC 29204	0.42 North	+ 18	118
O52	UST FINDER RELEASE	YOUNGS 3627	2527 DEVINE ST COLUMBIA, SC 29205	0.47 SE	+ 19	119
O53	LUST --07920 --PETRO	YOUNGS 3627	2527 DEVINE ST COLUMBIA, SC 29205	0.47 SE	+ 19	120
54	SHWS --SCS123457114	USC COLISEUM PARKING LOTS	GREENE ST COLUMBIA, SC 29201	0.59 WSW	+ 47	121
55	SHWS --SCS123457892	POPE-DAVIS TIRE COMPANY	2368 TAYLOR ST COLUMBIA, SC 29204	0.64 North	+ 37	122
56	SHWS --SCS123456969	COLUMBIA PINTSCH GAS PLANT	NEAR 919 CATAWBA ST COLUMBIA, SC 29205	0.71 West	+ 74	123
57	SHWS --SCS123458073	1911 1919 1921 TAYLOR STREET	1911 1919 1921 TAYLOR ST COLUMBIA, SC 29201	0.73 NW	+ 27	124
58	SHWS --SCS123457600	BAUKNIGHT PIETRAS AND STORMER	1517 GERVAIS ST COLUMBIA, SC 29201	0.74 West	+ 67	125
P59	SHWS --SCDRY0056449	FMR SUNSHINE LAUNDRY AND CLEAN	1500 WOODROW ST COLUMBIA, SC 29205	0.75 NE	+ 58	126
60	SHWS --SCS123458029	MUSC HEALTH COLUMBIA MEDICAL C	2435 FOREST DR COLUMBIA, SC 29204	0.77 North	+ 63	127
P61	SHWS --SCS123457968	TRIPP'S FINE CLEANERS	2710 GERVAIS ST COLUMBIA, SC 29204	0.79 NE	+ 55	128

Sites Summary Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

TOTAL: 93 GEOCODED: 89 NON GEOCODED: 4

Map ID	DB Type --ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
62	SHWS --SCS123456983	PROVIDENCE ST PROPERTY/PROVIDE	1702 PROVIDENCE ST COLUMBIA, SC 29204	0.81 NNE	+ 60	129
63	SHWS --SCDRY0056110	2551 FOREST DRIVE	2551 FOREST DR COLUMBIA, SC 29204	0.83 NNE	+ 57	130
64	SHWS --SCS123458078	CLAIRE TOWER PARKING	1320 SENATE ST COLUMBIA, SC 29201	0.89 West	+ 60	131
65	SHWS --SCS123458093	POPE-DAVIS TIRE & AUTOMOTIVE	1531 TAYLOR ST COLUMBIA, SC 29201	0.94 WNW	+ 51	132
66	SHWS --SCDRY0056215	MILLWOOD AVE 3023 - BUILDING 4	3023 MILLWOOD AVE COLUMBIA, SC 29205	0.94 East	+ 54	133
67	SHWS --SCS123457724	VACANT BLDG	1321 LADY ST COLUMBIA, SC 29201	0.95 West	+ 65	134

Sites Summary Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

TOTAL: 93 GEOCODED: 89 NON GEOCODED: 4

Map ID	DB Type --ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
	SHWS --SCDRY0056168	FMR ED ROBINSON LAUNDRY & DRY	1000 BLOCK GERVAIS ST; 20 COLUMBIA, SC 29201	NON GC	N/A	N/A
	LUST --07/19/2004 --17185 --PETRO	SC DEPT OF MENTAL HEALTH	PRESTON BUILDING COLUMBIA, SC 29201	NON GC	N/A	N/A
	LUST --09/30/1999 --17265 --PETRO	SC DEPT OF MENTAL HEALTH	RODDEY PAVILLION COLUMBIA, SC 29201	NON GC	N/A	N/A
	LUST --06/11/1998 --17266 --PETRO	SC DEPT OF MENTAL HEALTH	SECURITY GATE HOUSE COLUMBIA, SC 29201	NON GC	N/A	N/A

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST FINDER RELEASE

EDR ID: 1028700140 **DIST/DIR:** 0.000 **ELEVATION:** 253 **MAP ID:** A1

NAME: ARRINGTON MANOR HIGH RISE **Rev:** 06/08/2023

ADDRESS: 2225 COLLEGE ST
COLUMBIA, SC

SOURCE: US Environmental Protecton Agency

UST FINDER RELEASE:
Object ID: 25398
Facility ID: SC7323
Lust ID: SC7323_1
Name: ARRINGTON MANOR HIGH RISE
Address: 2225 COLLEGE ST
City,State,Zip: COLUMBIA, SC 0
Address Match Type: StreetAddress
Reported Date: 1991/12/20 15:59:59+00
Status: No Further Action
Substance: PETRO
Population within 1500ft: 951
Domestic Wells within 1500ft: 0
Land Use: Developed, Low Intensity
Within SPA: No
SPA PWS Facility ID: Not reported
SPA Water Type: Not reported
SPA Facility Type: Not reported
SPA HUC12: Not reported
Within WHPA: No
WHPA PWS Facility ID: Not reported
WHPA Water Type: Not reported
WHPA Facility Type: Not reported
WHPA HUC12: Not reported
Within 100yr Floodplain: No
Tribe: Not reported
EPA Region: 4
NFA Letter 1: Not reported
NFA Letter 2: Not reported
NFA Letter 3: Not reported
NFA Letter 4: Not reported
Closed With Residual Contaminate: Not reported
Coordinate Source: Geocode
X Coord: -81.01516
Y Coord: 34.00228
Latitude: 34.00228
Longitude: -81.01516

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST FINDER

EDR ID: 1028700140 **DIST/DIR:** 0.000 **ELEVATION:** 253 **MAP ID:** A1

NAME: ARRINGTON MANOR HIGH RISE **Rev:** 06/08/2023

ADDRESS: 2225 COLLEGE ST
COLUMBIA, SC

SOURCE: US Environmental Protection Agency

UST FINDER:
Object ID: 401296
Facility ID: SC7323
Name: ARRINGTON MANOR HIGH RISE
Address: 2225 COLLEGE ST
City,State,Zip: COLUMBIA, SC
Address Match Type: StreetAddress
Open USTs: 0
Closed USTs: 1
TOS USTs: 0
Population 1500ft: 951
Private Wells 1500ft: 0
Within 100yr Floodplain: No
Land Use: Developed, Low Intensity
Within SPA: No
SPA PWS Facility ID: Not reported
SPA Water Type: Not reported
SPA Facility Type: Not reported
SPA HUC12: Not reported
Within WHPA: No
WHPA PWS Facility ID: Not reported
WHPA Water Type: Not reported
WHPA Facility Type: Not reported
WHPA HUC12: Not reported
Facility Status: Closed UST(s)
Date of Last Inspection: Not reported
EPA Region: 4
Tribe: Not reported
Coordinate Source: Geocode
X Coord: -81.01515595
Y Coord: 34.0022795100001
Latitude: 34.00227951
Longitude: -81.01515595

UST FINDER:
Object ID: 1011073
Facility ID: SC7323
Tank ID: SC7323_1
Tank Status: Closed
Installation Date: Not reported
Removal Date: Not reported
Tank Capacity: 560
Substances: DL
Tank Wall Type: Not reported

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST

EDR ID: U001015209 **DIST/DIR:** 0.000 **ELEVATION:** 253 **MAP ID:** A2

NAME: ARRINGTON MANOR HIGH RISE

Rev: 10/07/2024
ID/Status: 07323

ADDRESS: 2225 COLLEGE ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: SC Department of Environmental Services

UST:
Name: ARRINGTON MANOR HIGH RISE
Address: 2225 COLLEGE ST
City: COLUMBIA
Facility ID: 07323
Permit: N 07323
Owner: COLUMBIA HOUSING AUTHORITY
Owner Address: 1917 HARDEN ST
Owner City, st, zip: COLUMBIA SC 29204
Owner Phone: 803-376-6177

Tank ID: 1
Status: Abandoned
Capacity: 560
Product: Diesel fuel
Calcage: 5

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

LUST

EDR ID: U001015209 **DIST/DIR:** 0.000 **ELEVATION:** 253 **MAP ID:** A2

NAME: ARRINGTON MANOR HIGH RISE

ADDRESS: 2225 COLLEGE ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: SC Department of Environmental Services

Rev: 02/10/2025
ID/Status: 01/13/1993
ID/Status: 07323
ID/Status: PETRO

LUST:
Name: ARRINGTON MANOR HIGH RISE
Address: 2225 COLLEGE ST
City,State,Zip: COLUMBIA, SC 29205-1075
Release Number: 1
Facility ID: 07323
Release Status Number: Not reported
Substance: PETRO
Tank Owner Company Name: COLUMBIA HOUSING AUTHOR
Tank Owner Last Name: Not reported
Tank Owner First name: Not reported
NFA Date: 01/13/1993
Tank Owner City: Not reported
Confirmed Date: Not reported
Release Date: 12/20/1991
EID: Not reported
Local Facility District: Not reported
SCRBCA Class Number: Not reported
Release Fin Type Code: Not reported
Qualified: Not reported
Release Source: Not reported
Local Fac Last Name: Not reported
Local Fac First Name: Not reported
User Name: STOUDEDW
Cleanup Initiated Date: 11/23/1992
Prefix: Not reported
Total Score: Not reported

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

RGA LUST

EDR ID: S114804078 **DIST/DIR:** 0.000 **ELEVATION:** 253 **MAP ID:** A3

NAME: ARRINGTON MANOR HIGH RISE **Rev:**

ADDRESS: 2225 COLLEGE ST
COLUMBIA, SC

SOURCE: SC Department of Environmental Services

RGA LUST:

2012	ARRINGTON MANOR HIGH RISE	2225 COLLEGE ST
2011	ARRINGTON MANOR HIGH RISE	2225 COLLEGE ST
2010	ARRINGTON MANOR HIGH RISE	2225 COLLEGE ST
2009	ARRINGTON MANOR HIGH RISE	2225 COLLEGE ST
2008	ARRINGTON MANOR HIGH RISE	2225 COLLEGE ST
2007	ARRINGTON MANOR HIGH RISE	2225 COLLEGE ST
2006	ARRINGTON MANOR HIGH RISE	2225 COLLEGE ST
2005	ARRINGTON MANOR HIGH RISE	2225 COLLEGE ST
2004	ARRINGTON MANOR HIGH RISE	2225 COLLEGE ST
2003	ARRINGTON MANOR HIGH RISE	2225 COLLEGE ST
2001	ARRINGTON MANOR HIGH RISE	2225 COLLEGE ST
2000	ARRINGTON MANOR HIGH RISE	2225 COLLEGE ST
1997	ARRINGTON MANOR HIGH RISE	2225 COLLEGE ST
1992	ARRINGTON MANOR HIGH RISE	2225 COLLEGE ST

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST FINDER RELEASE

EDR ID: 1028688414 **DIST/DIR:** 0.058 SW **ELEVATION:** 243 **MAP ID:** B4

NAME: GREGORY ELECTRIC CO **Rev:** 06/08/2023

ADDRESS: 2124 COLLEGE ST
COLUMBIA, SC

SOURCE: US Environmental Protecton Agency

UST FINDER RELEASE:
Object ID: 25395
Facility ID: SC11379
Lust ID: SC11379_1
Name: GREGORY ELECTRIC CO
Address: 2124 COLLEGE ST
City,State,Zip: COLUMBIA, SC 0
Address Match Type: PointAddress
Reported Date: 1991/12/30 15:59:59+00
Status: No Further Action
Substance: PETRO
Population within 1500ft: 1026
Domestic Wells within 1500ft: 0
Land Use: Developed, High Intensity
Within SPA: No
SPA PWS Facility ID: Not reported
SPA Water Type: Not reported
SPA Facility Type: Not reported
SPA HUC12: Not reported
Within WHPA: No
WHPA PWS Facility ID: Not reported
WHPA Water Type: Not reported
WHPA Facility Type: Not reported
WHPA HUC12: Not reported
Within 100yr Floodplain: No
Tribe: Not reported
EPA Region: 4
NFA Letter 1: Not reported
NFA Letter 2: Not reported
NFA Letter 3: Not reported
NFA Letter 4: Not reported
Closed With Residual Contaminate: Not reported
Coordinate Source: Geocode
X Coord: -81.01581
Y Coord: 34.00197
Latitude: 34.00197
Longitude: -81.01581

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST FINDER

EDR ID: 1028688414 **DIST/DIR:** 0.058 SW **ELEVATION:** 243 **MAP ID:** B4

NAME: GREGORY ELECTRIC CO **Rev:** 06/08/2023

ADDRESS: 2124 COLLEGE ST
COLUMBIA, SC

SOURCE: US Environmental Protection Agency

UST FINDER:
Object ID: 401292
Facility ID: SC11379
Name: GREGORY ELECTRIC CO
Address: 2124 COLLEGE ST
City,State,Zip: COLUMBIA, SC
Address Match Type: PointAddress
Open USTs: 0
Closed USTs: 2
TOS USTs: 0
Population 1500ft: 1028
Private Wells 1500ft: 0
Within 100yr Floodplain: No
Land Use: Developed, High Intensity
Within SPA: No
SPA PWS Facility ID: Not reported
SPA Water Type: Not reported
SPA Facility Type: Not reported
SPA HUC12: Not reported
Within WHPA: No
WHPA PWS Facility ID: Not reported
WHPA Water Type: Not reported
WHPA Facility Type: Not reported
WHPA HUC12: Not reported
Facility Status: Closed UST(s)
Date of Last Inspection: Not reported
EPA Region: 4
Tribe: Not reported
Coordinate Source: Geocode
X Coord: -81.01581321
Y Coord: 34.0019683900001
Latitude: 34.00196839
Longitude: -81.01581321

UST FINDER:
Object ID: 976692
Facility ID: SC11379
Tank ID: SC11379_2
Tank Status: Closed
Installation Date: Not reported
Removal Date: Not reported
Tank Capacity: 1000
Substances: GN
Tank Wall Type: Not reported

- Continued on next page -

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST FINDER

EDR ID: 1028688414 **DIST/DIR:** 0.058 SW **ELEVATION:** 243 **MAP ID:** B4

NAME: GREGORY ELECTRIC CO **Rev:** 06/08/2023

ADDRESS: 2124 COLLEGE ST
COLUMBIA, SC

SOURCE: US Environmental Protection Agency

Object ID: 976693
Facility ID: SC11379
Tank ID: SC11379_1
Tank Status: Closed
Installation Date: Not reported
Removal Date: Not reported
Tank Capacity: 1000
Substances: GN
Tank Wall Type: Not reported

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST

EDR ID: U003521936 **DIST/DIR:** 0.058 SW **ELEVATION:** 243 **MAP ID:** B5

NAME: GREGORY ELECTRIC CO

ADDRESS: 2124 COLLEGE ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: SC Department of Environmental Services

Rev: 10/07/2024
ID/Status: 11379

UST:
Name: GREGORY ELECTRIC CO
Address: 2124 COLLEGE ST
City: COLUMBIA
Facility ID: 11379
Permit: N 11379
Owner: GREGORY ELECTRIC CO
Owner Address: 2124 COLLEGE ST
Owner City, st, zip: COLUMBIA SC 29205-1023
Owner Phone: 803-748-1100

Tank ID: 1
Status: Abandoned
Capacity: 1000
Product: Gasoline
Calcage: 20

Name: GREGORY ELECTRIC CO
Address: 2124 COLLEGE ST
City: COLUMBIA

Tank ID: 2
Status: Abandoned
Capacity: 1000
Product: Gasoline
Calcage: 20

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

LUST

EDR ID: U003521936 **DIST/DIR:** 0.058 SW **ELEVATION:** 243 **MAP ID:** B5

NAME: GREGORY ELECTRIC CO

ADDRESS: 2124 COLLEGE ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: SC Department of Environmental Services

Rev: 02/10/2025
ID/Status: 03/19/1993
ID/Status: 11379
ID/Status: PETRO

LUST:
Name: GREGORY ELECTRIC CO
Address: 2124 COLLEGE ST
City,State,Zip: COLUMBIA, SC 29205-1023
Release Number: 1
Facility ID: 11379
Release Status Number: Not reported
Substance: PETRO
Tank Owner Company Name: GREGORY ELECTRIC CO
Tank Owner Last Name: GREGORY ELECTRIC CO
Tank Owner First name: Not reported
NFA Date: 03/19/1993
Tank Owner City: COLUMBIA
Confirmed Date: 03/23/1992
Release Date: 12/30/1991
EID: 1764518
Local Facility District: Columbia EQC Office
SCRBCA Class Number: Not reported
Release Fin Type Code: UNK
Qualified: Not reported
Release Source: UST
Local Fac Last Name: GREGORY ELECTRIC CO
Local Fac First Name: Not reported
User Name: WHITEJL
Cleanup Initiated Date: 03/23/1992
Prefix: N
Total Score: Not reported

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST

EDR ID: U003520371 **DIST/DIR:** 0.075 WSW **ELEVATION:** 242 **MAP ID:** B6

NAME: COLUMBIA CABLE TV CO INC

Rev: 10/07/2024
ID/Status: 07821

ADDRESS: 2123 COLLEGE ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: SC Department of Environmental Services

UST:
Name: COLUMBIA CABLE TV CO INC
Address: 2123 COLLEGE ST
City: COLUMBIA
Facility ID: 07821
Permit: N 07821
Owner: THOMPSON, BROADUS
Owner Address: PO BOX 8509
Owner City, st, zip: COLUMBIA SC 29202-8509
Owner Phone: 803-254-5533

Tank ID: 1
Status: Abandoned
Capacity: 500
Product: Gasoline
Calcage: Not reported

Name: COLUMBIA CABLE TV CO INC
Address: 2123 COLLEGE ST
City: COLUMBIA

Tank ID: 2
Status: Abandoned
Capacity: 1000
Product: Gasoline
Calcage: Not reported

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST FINDER

EDR ID: 1028700595 **DIST/DIR:** 0.075 WSW **ELEVATION:** 242 **MAP ID:** B7

NAME: COLUMBIA CABLE TV CO INC **Rev:** 06/08/2023

ADDRESS: 2123 COLLEGE ST
COLUMBIA, SC

SOURCE: US Environmental Protection Agency

UST FINDER:
Object ID: 401290
Facility ID: SC7821
Name: COLUMBIA CABLE TV CO INC
Address: 2123 COLLEGE ST
City,State,Zip: COLUMBIA, SC
Address Match Type: StreetAddress
Open USTs: 0
Closed USTs: 2
TOS USTs: 0
Population 1500ft: 1746
Private Wells 1500ft: 0
Within 100yr Floodplain: No
Land Use: Developed, High Intensity
Within SPA: No
SPA PWS Facility ID: Not reported
SPA Water Type: Not reported
SPA Facility Type: Not reported
SPA HUC12: Not reported
Within WHPA: No
WHPA PWS Facility ID: Not reported
WHPA Water Type: Not reported
WHPA Facility Type: Not reported
WHPA HUC12: Not reported
Facility Status: Closed UST(s)
Date of Last Inspection: Not reported
EPA Region: 4
Tribe: Not reported
Coordinate Source: Geocode
X Coord: -81.0169231199999
Y Coord: 34.0017403700001
Latitude: 34.00174037
Longitude: -81.01692312

UST FINDER:
Object ID: 1012551
Facility ID: SC7821
Tank ID: SC7821_1
Tank Status: Closed
Installation Date: Not reported
Removal Date: Not reported
Tank Capacity: 500
Substances: GN
Tank Wall Type: Not reported

- Continued on next page -

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST FINDER

EDR ID: 1028700595 **DIST/DIR:** 0.075 WSW **ELEVATION:** 242 **MAP ID:** B7

NAME: COLUMBIA CABLE TV CO INC **Rev:** 06/08/2023

ADDRESS: 2123 COLLEGE ST
COLUMBIA, SC

SOURCE: US Environmental Protection Agency

Object ID: 1012552
Facility ID: SC7821
Tank ID: SC7821_2
Tank Status: Closed
Installation Date: Not reported
Removal Date: Not reported
Tank Capacity: 1000
Substances: GN
Tank Wall Type: Not reported

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

DRYCLEANERS

EDR ID: S105621343 **DIST/DIR:** 0.120 SW **ELEVATION:** 225 **MAP ID:** C8

NAME: TRIPP'S FINE CLEANERS

Rev: 04/26/2023
ID/Status: 52843

ADDRESS: 830 HARDEN ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: SC Department of Environmental Services

Drycleaners:
Name: TRIPP'S FINE CLEANERS
Address: 830 HARDEN ST
City,State,Zip: COLUMBIA, SC
BLWM Number: 52843
Rank: TIER III
Priority Group Explanation: TIER III

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

SHWS

EDR ID: S105621343 **DIST/DIR:** 0.120 SW **ELEVATION:** 225 **MAP ID:** C8

NAME: TRIPP'S FINE CLEANERS

Rev: 03/18/2024
ID/Status: SCDRY0052843

ADDRESS: 830 HARDEN ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: SC Department of Environmental Services

SHWS:
Name: TRIPP'S FINE CLEANERS
Address: 830 HARDEN ST
City,State,Zip: COLUMBIA, SC 29205
EPA ID: SCDRY0052843

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

EDR Hist Cleaner

EDR ID: 1018945672 **DIST/DIR:** 0.120 SW **ELEVATION:** 225 **MAP ID:** C9

NAME: PENTERPRISES INC **Rev:** 02/20/2007

ADDRESS: 830 HARDEN ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: US EDR, Inc.

EDR Hist Cleaner:

Year:	Name:	Type:
1999	PENTERPRISES INC:	Garment Pressing And Cleaners' Agents
2000	PENTERPRISES INC:	Garment Pressing And Cleaners' Agents
2001	PENTERPRISES INC:	Garment Pressing And Cleaners' Agents
2002	PENTERPRISES INC:	Garment Pressing And Cleaners' Agents
2003	PENTERPRISES INC:	Garment Pressing And Cleaners' Agents
2004	PENTERPRISES INC:	Garment Pressing And Cleaners' Agents
2010	PENTERPRISES INC:	Garment Pressing And Cleaners' Agents
2011	PENTERPRISES INC:	Drycleaning Plants, Except Rugs, NEC
2012	PENTERPRISES INC:	Drycleaning Plants, Except Rugs, NEC
2013	PENTERPRISES INC:	Drycleaning Plants, Except Rugs, NEC
2014	PENTERPRISES INC:	Drycleaning Plants, Except Rugs, NEC

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

RCRA NonGen / NLR

EDR ID: 1015750353 **DIST/DIR:** 0.126 SW **ELEVATION:** 225 **MAP ID:** C10

NAME: RITE AID 11583

ADDRESS: 818 HARDEN ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: US Environmental Protection Agency

Rev: 02/17/2025
ID/Status: SCR000776401

RCRA Listings:
Date Form Received by Agency: 20160101
Handler Name: Rite Aid 11583
Handler Address: 818 Harden St
Handler City,State,Zip: COLUMBIA, SC 29205
EPA ID: SCR000776401
Contact Name: DAVID CROZIER
Contact Address: 30 HUNTER LN ATTN EH&S
Contact City,State,Zip: CAMP HILL, PA 17011
Contact Telephone: 717-975-8643
Contact Fax: Not reported
Contact Email: Not reported
Contact Title: Not reported
EPA Region: 04
Land Type: Private
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported
Biennial Report Cycle: 2015
Accessibility: Not reported
Active Site Indicator: Not reported
State District Owner: Not reported
State District: Not reported
Mailing Address: 30 HUNTER LN ATTN EH&S
Mailing City,State,Zip: CAMP HILL, PA 17011
Owner Name: Dial Harden Llc
Owner Type: Private
Operator Name: Eckerd Corporation
Operator Type: Private
Short-Term Generator Activity: No
Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility Activity: No
Recycler Activity with Storage: No
Small Quantity On-Site Burner Exemption: No
Smelting Melting and Refining Furnace Exemption: No
Underground Injection Control: No
Off-Site Waste Receipt: No
Universal Waste Indicator: No
Universal Waste Destination Facility: No
Federal Universal Waste: No
Active Site State-Reg Handler: ---
Federal Facility Indicator: Not reported
Hazardous Secondary Material Indicator: N

- Continued on next page -

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

RCRA NonGen / NLR

EDR ID: 1015750353 **DIST/DIR:** 0.126 SW **ELEVATION:** 225 **MAP ID:** C10

NAME: RITE AID 11583

ADDRESS: 818 HARDEN ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: US Environmental Protection Agency

Rev: 02/17/2025
ID/Status: SCR000776401

Sub-Part K Indicator: Not reported
2018 GPRA Permit Baseline: Not on the Baseline
2018 GPRA Renewals Baseline: Not on the Baseline
202 GPRA Corrective Action Baseline: No
Subject to Corrective Action Universe: No
Non-TSDFs Where RCRA CA has Been Imposed Universe: No
Corrective Action Priority Ranking: No NCAPS ranking
Environmental Control Indicator: No
Institutional Control Indicator: No
Human Exposure Controls Indicator: N/A
Groundwater Controls Indicator: N/A
Significant Non-Complier Universe: No
Unaddressed Significant Non-Complier Universe: No
Addressed Significant Non-Complier Universe: No
Significant Non-Complier With a Compliance Schedule Universe: No
Financial Assurance Required: Not reported
Handler Date of Last Change: 20160720
Recognized Trader-Importer: No
Recognized Trader-Exporter: No
Importer of Spent Lead Acid Batteries: No
Exporter of Spent Lead Acid Batteries: No
Recycler Activity Without Storage: No
Manifest Broker: No
Sub-Part P Indicator: No

Biennial: List of Years
Year: 2015

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: D001
Waste Description: Ignitable Waste

Waste Code: D002
Waste Description: Corrosive Waste

Waste Code: D005
Waste Description: Barium

Waste Code: D007
Waste Description: Chromium

Waste Code: D009

- Continued on next page -

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

RCRA NonGen / NLR

EDR ID: 1015750353 **DIST/DIR:** 0.126 SW **ELEVATION:** 225 **MAP ID:** C10

NAME: RITE AID 11583
ADDRESS: 818 HARDEN ST
COLUMBIA, SC 29205
RICHLAND
SOURCE: US Environmental Protection Agency

Rev: 02/17/2025
ID/Status: SCR000776401

Waste Description: Mercury

Waste Code: D010
Waste Description: Selenium

Waste Code: D013
Waste Description: Lindane (1,2,3,4,5,6-Hexa-Chlorocyclohexane, Gamma Isomer)

Waste Code: D024
Waste Description: M-Cresol

Waste Code: P001
Waste Description: 2h-1-Benzopyran-2-One, 4-Hydroxy-3-(3-Oxo-1-Phenylbutyl)-, & Salts, When Present At Concentrations Greater Than 0.3% (Or) Warfarin, & Salts, When Present At Concentrations Greater Than 0.3%

Waste Code: P075
Waste Description: Nicotine, & Salts (Or) Pyridine, 3-(1-Methyl-2-Pyrrolidinyl)-,(S)-, & Salts

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: DIAL HARDEN LLC
Legal Status: Private
Date Became Current: 20141103
Date Ended Current: Not reported
Owner/Operator Address: 2712 MIDDLEBURG DR STE 208
Owner/Operator City,State,Zip: COLUMBIA, SC 29204
Owner/Operator Telephone: 803-779-5005
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: PP
Owner/Operator Name: RITE AID CORP
Legal Status: Private
Date Became Current: 20120919
Date Ended Current: 20141103
Owner/Operator Address: 30 HUNTER LN
Owner/Operator City,State,Zip: CAMP HILL, PA 17011
Owner/Operator Telephone: 717-761-2633
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

- Continued on next page -

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

RCRA NonGen / NLR

EDR ID: 1015750353 **DIST/DIR:** 0.126 SW **ELEVATION:** 225 **MAP ID:** C10

NAME: RITE AID 11583

ADDRESS: 818 HARDEN ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: US Environmental Protection Agency

Rev: 02/17/2025
ID/Status: SCR000776401

Owner/Operator Indicator: Owner
Owner/Operator Name: DIAL HARDEN LLC
Legal Status: Private
Date Became Current: 20091231
Date Ended Current: Not reported
Owner/Operator Address: 2712 MIDDLEBURG DR STE 208
Owner/Operator City,State,Zip: COLUMBIA, SC 29204
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: ECKERD CORPORATION
Legal Status: Private
Date Became Current: 20091231
Date Ended Current: Not reported
Owner/Operator Address: 30 HUNTER LN
Owner/Operator City,State,Zip: CAMP HILL, PA 17011
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: PO
Owner/Operator Name: ECKERD CORP
Legal Status: Private
Date Became Current: 20120919
Date Ended Current: 20141103
Owner/Operator Address: 30 HUNTER LN
Owner/Operator City,State,Zip: CAMP HILL, PA 17011
Owner/Operator Telephone: 717-761-2633
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: RITE AID CORP
Legal Status: Private
Date Became Current: 20120919
Date Ended Current: Not reported
Owner/Operator Address: 30 HUNTER LN
Owner/Operator City,State,Zip: CAMP HILL, PA 17011
Owner/Operator Telephone: 717-761-2633
Owner/Operator Telephone Ext: Not reported

- Continued on next page -

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

RCRA NonGen / NLR

EDR ID: 1015750353 **DIST/DIR:** 0.126 SW **ELEVATION:** 225 **MAP ID:** C10

NAME: RITE AID 11583
ADDRESS: 818 HARDEN ST
COLUMBIA, SC 29205
RICHLAND
SOURCE: US Environmental Protection Agency

Rev: 02/17/2025
ID/Status: SCR000776401

Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: PO
Owner/Operator Name: ECKERD CORP
Legal Status: Private
Date Became Current: 20120919
Date Ended Current: 20141103
Owner/Operator Address: 30 HUNTER LN
Owner/Operator City,State,Zip: CAMP HILL, PA 17011
Owner/Operator Telephone: 717-761-2633
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: ECKERD CORP
Legal Status: Private
Date Became Current: 20141103
Date Ended Current: Not reported
Owner/Operator Address: 30 HUNTER LN
Owner/Operator City,State,Zip: CAMP HILL, PA 17011
Owner/Operator Telephone: 717-761-2633
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: ECKERD CORP
Legal Status: Private
Date Became Current: 20141103
Date Ended Current: Not reported
Owner/Operator Address: 30 HUNTER LN
Owner/Operator City,State,Zip: CAMP HILL, PA 17011
Owner/Operator Telephone: 717-761-2633
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: PO
Owner/Operator Name: ECKERD CORP
Legal Status: Private
Date Became Current: 20120919
Date Ended Current: 20141103
Owner/Operator Address: 30 HUNTER LN

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Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

RCRA NonGen / NLR

EDR ID: 1015750353 **DIST/DIR:** 0.126 SW **ELEVATION:** 225 **MAP ID:** C10

NAME: RITE AID 11583

ADDRESS: 818 HARDEN ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: US Environmental Protection Agency

Rev: 02/17/2025
ID/Status: SCR000776401

Owner/Operator City,State,Zip: CAMP HILL, PA 17011
Owner/Operator Telephone: 717-761-2633
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: ECKERD CORP
Legal Status: Private
Date Became Current: 20141103
Date Ended Current: Not reported
Owner/Operator Address: 30 HUNTER LN
Owner/Operator City,State,Zip: CAMP HILL, PA 17011
Owner/Operator Telephone: 717-761-2633
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: ECKERD CORP
Legal Status: Private
Date Became Current: 20120919
Date Ended Current: Not reported
Owner/Operator Address: 30 HUNTER LN
Owner/Operator City,State,Zip: CAMP HILL, PA 17011
Owner/Operator Telephone: 717-761-2633
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: PP
Owner/Operator Name: RITE AID CORP
Legal Status: Private
Date Became Current: 20120919
Date Ended Current: 20141103
Owner/Operator Address: 30 HUNTER LN
Owner/Operator City,State,Zip: CAMP HILL, PA 17011
Owner/Operator Telephone: 717-761-2633
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: DIAL HARDEN LLC
Legal Status: Private

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Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

RCRA NonGen / NLR

EDR ID: 1015750353 **DIST/DIR:** 0.126 SW **ELEVATION:** 225 **MAP ID:** C10

NAME: RITE AID 11583
ADDRESS: 818 HARDEN ST
COLUMBIA, SC 29205
RICHLAND
SOURCE: US Environmental Protection Agency

Rev: 02/17/2025
ID/Status: SCR000776401

Date Became Current: 20141103
Date Ended Current: Not reported
Owner/Operator Address: 2712 MIDDLEBURG DR STE 208
Owner/Operator City,State,Zip: COLUMBIA, SC 29204
Owner/Operator Telephone: 803-779-5005
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: PP
Owner/Operator Name: RITE AID CORP
Legal Status: Private
Date Became Current: 20120919
Date Ended Current: 20141103
Owner/Operator Address: 30 HUNTER LN
Owner/Operator City,State,Zip: CAMP HILL, PA 17011
Owner/Operator Telephone: 717-761-2633
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: DIAL HARDEN LLC
Legal Status: Private
Date Became Current: 20141103
Date Ended Current: Not reported
Owner/Operator Address: 2712 MIDDLEBURG DR STE 208
Owner/Operator City,State,Zip: COLUMBIA, SC 29204
Owner/Operator Telephone: 803-779-5005
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20160101
Handler Name: RITE AID 11583
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes

- Continued on next page -

RCRA NonGen / NLR

EDR ID: 1015750353 **DIST/DIR:** 0.126 SW **ELEVATION:** 225 **MAP ID:** C10

NAME: RITE AID 11583

ADDRESS: 818 HARDEN ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: US Environmental Protection Agency

Rev: 02/17/2025
ID/Status: SCR000776401

Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20120919
Handler Name: RITE AID 11583
Federal Waste Generator Description: Very Small Quantity Generator (formerly Conditionally-Exempt Small Quantity Generator
State District Owner: Sc
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20141103
Handler Name: RITE AID 11583
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Sc
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20150803
Handler Name: RITE AID 11583
Federal Waste Generator Description: Not a generator, verified
State District Owner: Sc
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20150731
Handler Name: RITE AID 11583

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Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

RCRA NonGen / NLR

EDR ID: 1015750353 **DIST/DIR:** 0.126 SW **ELEVATION:** 225 **MAP ID:** C10

NAME: RITE AID 11583

ADDRESS: 818 HARDEN ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: US Environmental Protection Agency

Rev: 02/17/2025
ID/Status: SCR000776401

Federal Waste Generator Description: Not a generator, verified
State District Owner: Sc
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 11111
NAICS Description: Soybean Farming

NAICS Code: 44611
NAICS Description: Pharmacies And Drug Stores

NAICS Code: 446110
NAICS Description: Pharmacies And Drug Stores

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST FINDER RELEASE

EDR ID: 1028700537 **DIST/DIR:** 0.152 SW **ELEVATION:** 225 **MAP ID:** C11

NAME: CORNER PANTRY 118 **Rev:** 06/08/2023

ADDRESS: 831 HARDEN ST
COLUMBIA, SC

SOURCE: US Environmental Protecton Agency

UST FINDER RELEASE:
Object ID: 20069
Facility ID: SC7765
Lust ID: SC7765_1
Name: CORNER PANTRY 118
Address: 831 HARDEN ST
City,State,Zip: COLUMBIA, SC 0
Address Match Type: Not reported
Reported Date: 1991/12/31 15:59:59+00
Status: No Further Action
Substance: PETROL
Population within 1500ft: 2253
Domestic Wells within 1500ft: 0
Land Use: Developed, High Intensity
Within SPA: No
SPA PWS Facility ID: Not reported
SPA Water Type: Not reported
SPA Facility Type: Not reported
SPA HUC12: Not reported
Within WHPA: No
WHPA PWS Facility ID: Not reported
WHPA Water Type: Not reported
WHPA Facility Type: Not reported
WHPA HUC12: Not reported
Within 100yr Floodplain: No
Tribe: Not reported
EPA Region: 4
NFA Letter 1: Not reported
NFA Letter 2: Not reported
NFA Letter 3: Not reported
NFA Letter 4: Not reported
Closed With Residual Contaminate: Not reported
Coordinate Source: State
X Coord: -81.01770019
Y Coord: 34.0010986300001
Latitude: 34.00109863
Longitude: -81.01770019

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST FINDER

EDR ID: 1028700537 **DIST/DIR:** 0.152 SW **ELEVATION:** 225 **MAP ID:** C11

NAME: CORNER PANTRY 118 **Rev:** 06/08/2023

ADDRESS: 831 HARDEN ST
COLUMBIA, SC

SOURCE: US Environmental Protection Agency

UST FINDER:
Object ID: 394215
Facility ID: SC7765
Name: CORNER PANTRY 118
Address: 831 HARDEN ST
City,State,Zip: COLUMBIA, SC
Address Match Type: Not reported
Open USTs: 2
Closed USTs: 4
TOS USTs: 0
Population 1500ft: Not reported
Private Wells 1500ft: 0
Within 100yr Floodplain: No
Land Use: Not reported
Within SPA: No
SPA PWS Facility ID: Not reported
SPA Water Type: Not reported
SPA Facility Type: Not reported
SPA HUC12: Not reported
Within WHPA: No
WHPA PWS Facility ID: Not reported
WHPA Water Type: Not reported
WHPA Facility Type: Not reported
WHPA HUC12: Not reported
Facility Status: Open UST(s)
Date of Last Inspection: Not reported
EPA Region: 4
Tribe: Not reported
Coordinate Source: State
X Coord: -81.01770019
Y Coord: 34.0010986300001
Latitude: 34.00109863
Longitude: -81.01770019

UST FINDER:
Object ID: 1012377
Facility ID: SC7765
Tank ID: SC7765_1
Tank Status: Closed
Installation Date: Not reported
Removal Date: Not reported
Tank Capacity: 15000
Substances: GN
Tank Wall Type: Not reported

- Continued on next page -

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST FINDER

EDR ID: 1028700537 **DIST/DIR:** 0.152 SW **ELEVATION:** 225 **MAP ID:** C11

NAME: CORNER PANTRY 118 **Rev:** 06/08/2023

ADDRESS: 831 HARDEN ST
COLUMBIA, SC

SOURCE: US Environmental Protection Agency

Object ID: 1012378
Facility ID: SC7765
Tank ID: SC7765_2
Tank Status: Closed
Installation Date: Not reported
Removal Date: Not reported
Tank Capacity: 10000
Substances: GN
Tank Wall Type: Not reported

Object ID: 1012379
Facility ID: SC7765
Tank ID: SC7765_3
Tank Status: Closed
Installation Date: Not reported
Removal Date: Not reported
Tank Capacity: 10000
Substances: GN
Tank Wall Type: Not reported

Object ID: 1012380
Facility ID: SC7765
Tank ID: SC7765_4
Tank Status: Closed
Installation Date: Not reported
Removal Date: Not reported
Tank Capacity: 8000
Substances: DL
Tank Wall Type: Not reported

Object ID: 1012381
Facility ID: SC7765
Tank ID: SC7765_5
Tank Status: Open
Installation Date: Not reported
Removal Date: Not reported
Tank Capacity: 12000
Substances: RUL
Tank Wall Type: Not reported

Object ID: 1012382
Facility ID: SC7765
Tank ID: SC7765_6
Tank Status: Open
Installation Date: Not reported

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Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST FINDER

EDR ID: 1028700537 **DIST/DIR:** 0.152 SW **ELEVATION:** 225 **MAP ID:** C11

NAME: CORNER PANTRY 118 **Rev:** 06/08/2023

ADDRESS: 831 HARDEN ST
COLUMBIA, SC

SOURCE: US Environmental Protection Agency

Removal Date: Not reported
Tank Capacity: 8000
Substances: PREM
Tank Wall Type: Not reported

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

RCRA NonGen / NLR

EDR ID: 1004780609 **DIST/DIR:** 0.152 SW **ELEVATION:** 225 **MAP ID:** C12

NAME: SOMMERS 318

ADDRESS: 831 HARDEN ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: US Environmental Protection Agency

Rev: 02/17/2025
ID/Status: SCD987587078

RCRA Listings:
Date Form Received by Agency: 20040720
Handler Name: Sommers 318
Handler Address: Harden St
Handler City,State,Zip: COLUMBIA, SC 29205
EPA ID: SCD987587078
Contact Name: JACKIE SOMMERS
Contact Address: PO BOX 23769
Contact City,State,Zip: SAVANNAH, GA 31403
Contact Telephone: 912-355-0061
Contact Fax: Not reported
Contact Email: Not reported
Contact Title: Not reported
EPA Region: 04
Land Type: Private
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Not reported
State District Owner: Sc
State District: CM
Mailing Address: HARDEN ST
Mailing City,State,Zip: COLUMBIA, SC 29205
Owner Name: Sunstar Inc
Owner Type: Private
Operator Name: Sunstar Inc
Operator Type: Private
Short-Term Generator Activity: No
Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility Activity: No
Recycler Activity with Storage: No
Small Quantity On-Site Burner Exemption: No
Smelting Melting and Refining Furnace Exemption: No
Underground Injection Control: No
Off-Site Waste Receipt: No
Universal Waste Indicator: No
Universal Waste Destination Facility: No
Federal Universal Waste: No
Active Site State-Reg Handler: ---
Federal Facility Indicator: Not reported
Hazardous Secondary Material Indicator: N

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Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

RCRA NonGen / NLR

EDR ID: 1004780609 **DIST/DIR:** 0.152 SW **ELEVATION:** 225 **MAP ID:** C12

NAME: SOMMERS 318

ADDRESS: 831 HARDEN ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: US Environmental Protection Agency

Rev: 02/17/2025
ID/Status: SCD987587078

Sub-Part K Indicator: Not reported
2018 GPRA Permit Baseline: Not on the Baseline
2018 GPRA Renewals Baseline: Not on the Baseline
202 GPRA Corrective Action Baseline: No
Subject to Corrective Action Universe: No
Non-TSDFs Where RCRA CA has Been Imposed Universe: No
Corrective Action Priority Ranking: No NCAPS ranking
Environmental Control Indicator: No
Institutional Control Indicator: No
Human Exposure Controls Indicator: N/A
Groundwater Controls Indicator: N/A
Significant Non-Complier Universe: No
Unaddressed Significant Non-Complier Universe: No
Addressed Significant Non-Complier Universe: No
Significant Non-Complier With a Compliance Schedule Universe: No
Financial Assurance Required: Not reported
Handler Date of Last Change: 20150805
Recognized Trader-Importer: No
Recognized Trader-Exporter: No
Importer of Spent Lead Acid Batteries: No
Exporter of Spent Lead Acid Batteries: No
Recycler Activity Without Storage: No
Manifest Broker: No
Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: SUNSTAR INC
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 13457
Owner/Operator City,State,Zip: SAVANNAH, GA 31406
Owner/Operator Telephone: 912-355-0061
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: SUNSTAR INC
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported

- Continued on next page -

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

RCRA NonGen / NLR

EDR ID: 1004780609 **DIST/DIR:** 0.152 SW **ELEVATION:** 225 **MAP ID:** C12

NAME: SOMMERS 318
ADDRESS: 831 HARDEN ST
COLUMBIA, SC 29205
RICHLAND
SOURCE: US Environmental Protection Agency

Rev: 02/17/2025
ID/Status: SCD987587078

Owner/Operator Address: PO BOX 13457
Owner/Operator City,State,Zip: SAVANNAH, GA 31406
Owner/Operator Telephone: 912-355-0061
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: SUNSTAR INC
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 13457
Owner/Operator City,State,Zip: SAVANNAH, GA 31406
Owner/Operator Telephone: 912-355-0061
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: SUNSTAR INC
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 13457
Owner/Operator City,State,Zip: SAVANNAH, GA 31406
Owner/Operator Telephone: 912-355-0061
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19920203
Handler Name: SOMMERS 318
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Sc
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

- Continued on next page -

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

RCRA NonGen / NLR

EDR ID: 1004780609 **DIST/DIR:** 0.152 SW **ELEVATION:** 225 **MAP ID:** C12

NAME: SOMMERS 318

ADDRESS: 831 HARDEN ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: US Environmental Protection Agency

Rev: 02/17/2025
ID/Status: SCD987587078

Receive Date: 20040720
Handler Name: SOMMERS 318
Federal Waste Generator Description: Not a generator, verified
State District Owner: Sc
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 447190
NAICS Description: Other Gasoline Stations

Has the Facility Received Notices of Violations:
Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported

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Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

RCRA NonGen / NLR

EDR ID: 1004780609 **DIST/DIR:** 0.152 SW **ELEVATION:** 225 **MAP ID:** C12

NAME: SOMMERS 318

ADDRESS: 831 HARDEN ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: US Environmental Protection Agency

Rev: 02/17/2025
ID/Status: SCD987587078

SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 20040713
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier: SCRML
Evaluation Responsible Sub-Organization: CM
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

RCR

EDR ID: U003740895 **DIST/DIR:** 0.152 SW **ELEVATION:** 225 **MAP ID:** C13

NAME: CORNER PANTRY 118 **Rev:** 10/01/2024

ADDRESS: 831 HARDEN ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: SC Department of Environmental Services

RCR:
Name: CORNER PANTRY 118
Address: 831 HARDEN ST
City,State,Zip: COLUMBIA, SC 29205-1001
Entity Responsibility: Not reported
Region: Not reported
Tax Id: R11405-09-06A
Latitude: 34.00097
Longitude: -81.01772
Tracking Number: 7765
Regulatory Program: Not reported
Reported: 12/31/2091
CU-MCL: 05/21/2012
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

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST

EDR ID: U003740895 **DIST/DIR:** 0.152 SW **ELEVATION:** 225 **MAP ID:** C13

NAME: CORNER PANTRY 118
ADDRESS: 831 HARDEN ST
COLUMBIA, SC 29205
RICHLAND
SOURCE: SC Department of Environmental Services

Rev: 10/07/2024
ID/Status: 07765

UST:
Name: CORNER PANTRY 118
Address: 831 HARDEN ST
City: COLUMBIA
Facility ID: 07765
Permit: P 07765
Owner: CORNER PANTRY INC
Owner Address: 1001 IDLEWILDE BLVD
Owner City, st, zip: COLUMBIA SC 29201-4825
Owner Phone: 803-779-9538

Tank ID: 1
Status: Abandoned
Capacity: 15000
Product: Gasoline
Calcage: 15

Name: CORNER PANTRY 118
Address: 831 HARDEN ST
City: COLUMBIA

Tank ID: 2
Status: Abandoned
Capacity: 10000
Product: Gasoline
Calcage: 15

Name: CORNER PANTRY 118
Address: 831 HARDEN ST
City: COLUMBIA

Tank ID: 3
Status: Abandoned
Capacity: 10000
Product: Gasoline
Calcage: 15

Name: CORNER PANTRY 118
Address: 831 HARDEN ST
City: COLUMBIA

Tank ID: 4
Status: Abandoned
Capacity: 8000

- Continued on next page -

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST

EDR ID: U003740895 **DIST/DIR:** 0.152 SW **ELEVATION:** 225 **MAP ID:** C13

NAME: CORNER PANTRY 118
ADDRESS: 831 HARDEN ST
COLUMBIA, SC 29205
RICHLAND
SOURCE: SC Department of Environmental Services

Rev: 10/07/2024
ID/Status: 07765

Product: Diesel fuel
Calcage: 10

Name: CORNER PANTRY 118
Address: 831 HARDEN ST
City: COLUMBIA

Tank ID: 5
Status: Currently in Use
Capacity: 12000
Product: Gasoline RUL
Calcage: 0

Name: CORNER PANTRY 118
Address: 831 HARDEN ST
City: COLUMBIA

Tank ID: 6
Status: Currently in Use
Capacity: 8000
Product: Gasoline Super/Prem
Calcage: 0

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

LUST

EDR ID: U003740895 **DIST/DIR:** 0.152 SW **ELEVATION:** 225 **MAP ID:** C13

NAME: CORNER PANTRY 118

ADDRESS: 831 HARDEN ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: SC Department of Environmental Services

Rev: 02/10/2025
ID/Status: 05/21/2012
ID/Status: 07765
ID/Status: PETROL

LUST:
Name: CORNER PANTRY 118
Address: 831 HARDEN ST
City,State,Zip: COLUMBIA, SC 29205-1001
Release Number: 1
Facility ID: 07765
Release Status Number: Not reported
Substance: PETROL
Tank Owner Company Name: CORNER PANTRY INC
Tank Owner Last Name: Not reported
Tank Owner First name: Not reported
NFA Date: 05/21/2012
Tank Owner City: Not reported
Confirmed Date: Not reported
Release Date: 12/31/1991
EID: Not reported
Local Facility District: Not reported
SCRBCA Class Number: Not reported
Release Fin Type Code: Not reported
Qualified: Not reported
Release Source: Not reported
Local Fac Last Name: Not reported
Local Fac First Name: Not reported
User Name: FULMERSB
Cleanup Initiated Date: 03/20/1992
Prefix: Not reported
Total Score: Not reported

GW Flow:
Release Date: 12/31/1991
Cleanup Complete Date: Not reported
Depth to Ground Water: 5.990
Ground Water Flow Direction: S
Release Number: 1
Confirmed date: 03/20/1992
RP Name: AUTOTRONICS SYSTEMS INC
RP Address: 201 E HAWTHORNE AVE
RP City: HARTFORD
RP State: IL
RP Zip: 62048
SCRBCA Class Code: CLASS3BF
Project Manager: FULMER, SUSAN B
Release Fin Type Code: WS

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

US BROWNFIELDS

EDR ID: 1016348166 **DIST/DIR:** 0.153 NNE **ELEVATION:** 243 **MAP ID:** 14

NAME: PENDLETON STREET PROPERTY **Rev:** 09/09/2024

ADDRESS: 2346 PENDLETON ST.
COLUMBIA, SC 29205
RICHLAND

SOURCE: US Environmental Protection Agency

US BROWNFIELDS:
Name: Pendleton Street Property
Address: 2346 Pendleton St.
City,State,Zip: COLUMBIA, SC 29205
Property ID: 92521
Property Alias: Not reported
Recipient Name: Columbia, City of
Grant Type: Petroleum
Property Number: R11410-20-07
Parcel Size: 0.3
Latitude: 34.004907
Longitude: -81.012932
Census Tract: 45079001300
State or Tribal Voluntary Response Program: Y
Program Name: BF
AA Activity Funded: Not reported
Start Date: Not reported
Redev Completition Date: Not reported
Completed Date: Not reported
Cleanup Funding: Not reported
Cleanup Funding Source: Not reported
Activity Funded: Not reported
Assessment Funding: Not reported
Assessment Funding Source: Not reported
Redevelopment Funding: Not reported
Contaminants REC: Not reported
Contaminants Found at Actionable Level: Not reported
Redev. Funding Source: Not reported
Redev. Funding Entity Name: Not reported
Contaminants Found Below Actionable Level: Not reported
Redevelopment Start Date: Not reported
Assessment Funding Entity: EPA
Cleanup Funding Entity: Not reported
Climate Adapt Mitig - Planning or Assessment: Not reported
Cooperative Agreement Number: 96462106
Start Date: 2008-10-01 00:00:00
Ownership Entity: Private
Additional Institutional Controls Information: Not reported
Completion Date: 2008-11-10 00:00:00
Address of Data Sources (URL if available) 1: Not reported
Cleanup Required: U
Indicates Cleanup/Treatment Tech Implemented: Not reported
Institutional Controls Required: Not reported
IC Category Proprietary Controls: Not reported

- Continued on next page -

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

US BROWNFIELDS

EDR ID: 1016348166 **DIST/DIR:** 0.153 NNE **ELEVATION:** 243 **MAP ID:** 14

NAME: PENDLETON STREET PROPERTY **Rev:** 09/09/2024

ADDRESS: 2346 PENDLETON ST.
COLUMBIA, SC 29205
RICHLAND

SOURCE: US Environmental Protection Agency

Excavation and Disposal of Soils: Not reported
Extraction of contaminants: Not reported
IC Cat. Info. Devices: Not reported
Removal of materials (tanks and piping, etc.): Not reported
IC Cat. Gov. Controls: Not reported
Reduction of Contam Bioremediation/Phytoremediation: Not reported
IC Cat. Enforcement Permit Tools: Not reported
Cleanup of structures: Not reported
IC in place date: Not reported
Additional Cleanup/Treatment Tech Info: Not reported
IC in place: Not reported
Address of Data Source (URL if available) 2: Not reported
Indicate whether Engineering Controls are required: Not reported
State/tribal program ID: Not reported
Cover Technologies (e.g., Capping): Not reported
Security (e.g., Guard, Fence): Not reported
Immobilization Process: Not reported
Engineering Barriers (e.g., Slurry Walls, Sheet): Not reported
Other: Not reported
Additional Engineering Controls Information: Not reported
Address of Data Source (URL if available) 3: Not reported
Indicate whether Engineering Controls are in place: Not reported
Date Engineering Controls put into place: Not reported
ACRES Cleaned Up: Not reported
Section 128(a) State/Tribal: Not reported
Multipurpose - Cost Share Amount: Not reported
Cleanup - Cost Share Amount: Not reported
RLF Loan - Total Loan Amount: Not reported
RLF - Loan Signed Date: Not reported
RLF Loan - Anticipated Repayment Start Date: Not reported
RLF Loan - Anticipated Repayment End Date: Not reported
RLF Loan - Interest Rate: Not reported
RLF Loan - EPA Funds Used: Not reported
Contaminant Cleanup: Not reported
RLF Loan - Cost Share Used: Not reported
Media Affected: Unknown
RLF Loan - Program Income Used: Not reported
Media Cleanup: Not reported
RLF Loan - Discounted: Not reported
RLF Loan - Discount Percentage: Not reported
RLF Subgrant - Total Subgrant Amount: Not reported
RLF Subgrant - Signed Date: Not reported
RLF Subgrant - EPA Funds Used: Not reported
RLF Subgrant - Cost Share Used: Not reported
RLF Subgrant - Program Income Used: Not reported

- Continued on next page -

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

US BROWNFIELDS

EDR ID: 1016348166 **DIST/DIR:** 0.153 NNE **ELEVATION:** 243 **MAP ID:** 14

NAME: PENDLETON STREET PROPERTY **Rev:** 09/09/2024

ADDRESS: 2346 PENDLETON ST.
COLUMBIA, SC 29205
RICHLAND

SOURCE: US Environmental Protection Agency

RLF Direct Cleanup - Total Funding Amt: Not reported
Num. of cleanup and re-dev. jobs: Not reported
RLF Direct Cleanup - Source of Funding: Not reported
RLF Leveraged - Funding Source Type: Not reported
Past use greenspace acreage: Not reported
Past use residential acreage: 0.3
RLF Leveraged - Entity Providing Funding: Not reported
RLF Leveraged - Funding Amount: Not reported
Cleanup Completion Doc - NFA Letter Received: N
Past use commercial acreage: Not reported
NFA Letter Date Received: Not reported
Past use industrial acreage: Not reported
Cleanup Comp Doc - Letter/Signed Rep Qualified Pro: N
Future use greenspace acreage: Not reported
Letter/Signed Report Date Received: Not reported
Future use residential acreage: Not reported
Future use commercial acreage: Not reported
Cleanup Completion Doc- Other forms of Doc: Not reported
Future use industrial acreage: Not reported
Climate Adapt and Mitiga - Demo or Cleanup: Not reported
ReDev Activity Funded: Not reported
Amount of Funding Expended on this Activity 2: Not reported
Number of Redevelopment Jobs Leveraged: Not reported
Climate Adaptation and Mitigation Redevelopment: Not reported
Radius: 0.5
Below Poverty Number: 1606
Below Poverty Percent: 45.11
Meidan Income: 5056
Meidan Income Number: 2459
Meidan Income Percent: 69.07
Vacant Housing Number: 403
Vacant Housing Percent: 20.72
Unemployed Number: 413
Unemployed Percent: 11.6

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

RCRA-VSQG

EDR ID: 1000349540 **DIST/DIR:** 0.155 SW **ELEVATION:** 224 **MAP ID:** C15

NAME: TRIPPS FINE CLEANERS

Rev: 02/17/2025
ID/Status: SCD981930589

ADDRESS: 819 HARDEN ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: US Environmental Protection Agency

RCRA Listings:
Date Form Received by Agency: 20080623
Handler Name: Tripps Fine Cleaners
Handler Address: Harden St
Handler City,State,Zip: COLUMBIA, SC 29205
EPA ID: SCD981930589
Contact Name: JEAN SUMMERS
Contact Address: PO BOX 21458
Contact City,State,Zip: COLUMBIA, SC 29221
Contact Telephone: 803-772-7528
Contact Fax: Not reported
Contact Email: Not reported
Contact Title: Not reported
EPA Region: 04
Land Type: Private
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Handler Activities
State District Owner: Sc
State District: CM
Mailing Address: PO BOX 21458
Mailing City,State,Zip: COLUMBIA, SC 29221
Owner Name: Chet Penninger
Owner Type: County
Operator Name: Opername
Operator Type: County
Short-Term Generator Activity: No
Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility Activity: No
Recycler Activity with Storage: No
Small Quantity On-Site Burner Exemption: No
Smelting Melting and Refining Furnace Exemption: No
Underground Injection Control: No
Off-Site Waste Receipt: No
Universal Waste Indicator: No
Universal Waste Destination Facility: No
Federal Universal Waste: No
Active Site State-Reg Handler: ---
Federal Facility Indicator: Not reported
Hazardous Secondary Material Indicator: N

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Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

RCRA-VSQG

EDR ID: 1000349540 **DIST/DIR:** 0.155 SW **ELEVATION:** 224 **MAP ID:** C15

NAME: TRIPPS FINE CLEANERS

Rev: 02/17/2025
ID/Status: SCD981930589

ADDRESS: 819 HARDEN ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: US Environmental Protection Agency

Sub-Part K Indicator: Not reported
2018 GPRA Permit Baseline: Not on the Baseline
2018 GPRA Renewals Baseline: Not on the Baseline
202 GPRA Corrective Action Baseline: No
Subject to Corrective Action Universe: No
Non-TSDFs Where RCRA CA has Been Imposed Universe: No
Corrective Action Priority Ranking: No NCAPS ranking
Environmental Control Indicator: No
Institutional Control Indicator: No
Human Exposure Controls Indicator: N/A
Groundwater Controls Indicator: N/A
Significant Non-Complier Universe: No
Unaddressed Significant Non-Complier Universe: No
Addressed Significant Non-Complier Universe: No
Significant Non-Complier With a Compliance Schedule Universe: No
Financial Assurance Required: Not reported
Handler Date of Last Change: 20150414
Recognized Trader-Importer: No
Recognized Trader-Exporter: No
Importer of Spent Lead Acid Batteries: No
Exporter of Spent Lead Acid Batteries: No
Recycler Activity Without Storage: No
Manifest Broker: No
Sub-Part P Indicator: No

Hazardous Waste Summary:
Waste Code: F002
Waste Description: The Following Spent Halogenated Solvents: Tetrachloroethylene, Methylene Chloride, Trichloroethylene, 1,1,1-Trichloroethane, Chlorobenzene, 1,1,2-Trichloro-1,2,2-Trifluoroethane, Ortho-Dichlorobenzene, Trichlorofluoromethane, And 1,1,2, Trichloroethane; All Spent Solvent Mixtures/Blends Containing, Before Use, A Total Of Ten Percent Or More (By Volume) Of One Or More Of The Above Halogenated Solvents Or Those Solvents Listed In F001, F004, And F005; And Still Bottoms From The Recovery Of These Spent Solvents And Spent Solvent Mixtures.

Waste Code: F004
Waste Description: The Following Spent Nonhalogenated Solvents: Cresols, Cresylic Acid, And Nitrobenzene; And The Still Bottoms From The Recovery Of These Solvents; All Spent Solvent Mixtures/Blends Containing, Before Use, A Total Of Ten Percent Or More (By Volume) Of One Or More Of The Above Nonhalogenated Solvents Or Those Solvents Listed In F001, F002, And

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Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

RCRA-VSQG

EDR ID: 1000349540 **DIST/DIR:** 0.155 SW **ELEVATION:** 224 **MAP ID:** C15

NAME: TRIPPS FINE CLEANERS

Rev: 02/17/2025
ID/Status: SCD981930589

ADDRESS: 819 HARDEN ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: US Environmental Protection Agency

F005; And Still Bottoms From The Recovery Of These Spent Solvents And Spent Solvent Mixtures.

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: OPERNAME
Legal Status: County
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: OPERSTREET
Owner/Operator City,State,Zip: OPERCITY, WY 99999
Owner/Operator Telephone: 404-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: CHET PENNINGER
Legal Status: County
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: OWNERSTREET
Owner/Operator City,State,Zip: OWNERCITY, WY 99999
Owner/Operator Telephone: 404-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: CHET PENNINGER
Legal Status: County
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: OWNERSTREET
Owner/Operator City,State,Zip: OWNERCITY, WY 99999
Owner/Operator Telephone: 404-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: OPERNAME
Legal Status: County
Date Became Current: Not reported

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Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

RCRA-VSQG

EDR ID: 1000349540 **DIST/DIR:** 0.155 SW **ELEVATION:** 224 **MAP ID:** C15

NAME: TRIPPS FINE CLEANERS

Rev: 02/17/2025
ID/Status: SCD981930589

ADDRESS: 819 HARDEN ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: US Environmental Protection Agency

Date Ended Current: Not reported
Owner/Operator Address: OPERSTREET
Owner/Operator City,State,Zip: OPERCITY, WY 99999
Owner/Operator Telephone: 404-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19981102
Handler Name: TRIPPS FINE CLEANERS
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Sc
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20080623
Handler Name: TRIPPS FINE CLEANERS
Federal Waste Generator Description: Very Small Quantity Generator (formerly Conditionally-Exempt Small Quantity Generator
State District Owner: Sc
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 11111
NAICS Description: Soybean Farming

Facility Has Received Notices of Violations:
Violations: No Violations Found

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Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

RCRA-VSQG

EDR ID: 1000349540 **DIST/DIR:** 0.155 SW **ELEVATION:** 224 **MAP ID:** C15

NAME: TRIPPS FINE CLEANERS

ADDRESS: 819 HARDEN ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: US Environmental Protection Agency

Rev: 02/17/2025
ID/Status: SCD981930589

Evaluation Action Summary:
Evaluations: No Evaluations Found

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST

EDR ID: U004018361 **DIST/DIR:** 0.163 West **ELEVATION:** 229 **MAP ID:** D16

NAME: MARKETPLACE AT HARDEN STREET

Rev: 10/07/2024
ID/Status: 18950

ADDRESS: 1001 HARDEN ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: SC Department of Environmental Services

UST:
Name: MARKETPLACE AT HARDEN STREET
Address: 1001 HARDEN ST
City: COLUMBIA
Facility ID: 18950
Permit: N 18950
Owner: AMERICAN SPECTRUM REALTY INC
Owner Address: 7700 IRVINE CENTER DR STE 555
Owner City, st, zip: IRVINE CA 92618
Owner Phone: Not reported

Tank ID: 1
Status: Abandoned
Capacity: Not reported
Product: Gasoline
Calcage: 0

Name: MARKETPLACE AT HARDEN STREET
Address: 1001 HARDEN ST
City: COLUMBIA

Tank ID: 2
Status: Abandoned
Capacity: Not reported
Product: Gasoline
Calcage: 0

Name: MARKETPLACE AT HARDEN STREET
Address: 1001 HARDEN ST
City: COLUMBIA

Tank ID: 3
Status: Abandoned
Capacity: Not reported
Product: Gasoline
Calcage: 0

Name: MARKETPLACE AT HARDEN STREET
Address: 1001 HARDEN ST
City: COLUMBIA

Tank ID: 4
Status: Abandoned
Capacity: Not reported

- Continued on next page -

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST

EDR ID: U004018361 **DIST/DIR:** 0.163 West **ELEVATION:** 229 **MAP ID:** D16

NAME: MARKETPLACE AT HARDEN STREET

Rev: 10/07/2024
ID/Status: 18950

ADDRESS: 1001 HARDEN ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: SC Department of Environmental Services

Product: Gasoline
Calcage: 0

Name: MARKETPLACE AT HARDEN STREET
Address: 1001 HARDEN ST
City: COLUMBIA

Tank ID: 5
Status: Abandoned
Capacity: Not reported
Product: Gasoline
Calcage: 0

Name: MARKETPLACE AT HARDEN STREET
Address: 1001 HARDEN ST
City: COLUMBIA

Tank ID: 6
Status: Abandoned
Capacity: Not reported
Product: Gasoline
Calcage: 0

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST FINDER

EDR ID: 1028694120 **DIST/DIR:** 0.163 West **ELEVATION:** 229 **MAP ID:** D17

NAME: MARKETPLACE AT HARDEN STREET **Rev:** 06/08/2023

ADDRESS: 1001 HARDEN ST
COLUMBIA, SC 29205

SOURCE: US Environmental Protection Agency

UST FINDER:
Object ID: 401302
Facility ID: SC18950
Name: MARKETPLACE AT HARDEN STREET
Address: 1001 HARDEN ST
City,State,Zip: COLUMBIA, SC 29205
Address Match Type: PointAddress
Open USTs: 0
Closed USTs: 6
TOS USTs: 0
Population 1500ft: 1794
Private Wells 1500ft: 0
Within 100yr Floodplain: No
Land Use: Developed, High Intensity
Within SPA: No
SPA PWS Facility ID: Not reported
SPA Water Type: Not reported
SPA Facility Type: Not reported
SPA HUC12: Not reported
Within WHPA: No
WHPA PWS Facility ID: Not reported
WHPA Water Type: Not reported
WHPA Facility Type: Not reported
WHPA HUC12: Not reported
Facility Status: Closed UST(s)
Date of Last Inspection: Not reported
EPA Region: 4
Tribe: Not reported
Coordinate Source: Geocode
X Coord: -81.0177816899999
Y Coord: 34.00296903
Latitude: 34.00296903
Longitude: -81.01778169

UST FINDER:
Object ID: 992787
Facility ID: SC18950
Tank ID: SC18950_1
Tank Status: Closed
Installation Date: Not reported
Removal Date: Not reported
Tank Capacity: Not reported
Substances: GN
Tank Wall Type: Not reported

- Continued on next page -

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST FINDER

EDR ID: 1028694120 **DIST/DIR:** 0.163 West **ELEVATION:** 229 **MAP ID:** D17

NAME: MARKETPLACE AT HARDEN STREET **Rev:** 06/08/2023

ADDRESS: 1001 HARDEN ST
COLUMBIA, SC 29205

SOURCE: US Environmental Protection Agency

Object ID: 992788
Facility ID: SC18950
Tank ID: SC18950_2
Tank Status: Closed
Installation Date: Not reported
Removal Date: Not reported
Tank Capacity: Not reported
Substances: GN
Tank Wall Type: Not reported

Object ID: 992789
Facility ID: SC18950
Tank ID: SC18950_3
Tank Status: Closed
Installation Date: Not reported
Removal Date: Not reported
Tank Capacity: Not reported
Substances: GN
Tank Wall Type: Not reported

Object ID: 992790
Facility ID: SC18950
Tank ID: SC18950_4
Tank Status: Closed
Installation Date: Not reported
Removal Date: Not reported
Tank Capacity: Not reported
Substances: GN
Tank Wall Type: Not reported

Object ID: 992791
Facility ID: SC18950
Tank ID: SC18950_5
Tank Status: Closed
Installation Date: Not reported
Removal Date: Not reported
Tank Capacity: Not reported
Substances: GN
Tank Wall Type: Not reported

Object ID: 992792
Facility ID: SC18950
Tank ID: SC18950_6
Tank Status: Closed
Installation Date: Not reported

- Continued on next page -

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST FINDER

EDR ID: 1028694120 **DIST/DIR:** 0.163 West **ELEVATION:** 229 **MAP ID:** D17

NAME: MARKETPLACE AT HARDEN STREET **Rev:** 06/08/2023

ADDRESS: 1001 HARDEN ST
COLUMBIA, SC 29205

SOURCE: US Environmental Protection Agency

Removal Date: Not reported
Tank Capacity: Not reported
Substances: GN
Tank Wall Type: Not reported

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST FINDER RELEASE

EDR ID: 1028700415 **DIST/DIR:** 0.213 SSW **ELEVATION:** 216 **MAP ID:** E18

NAME: R L NEWMAN EXXON 4 2563 **Rev:** 06/08/2023

ADDRESS: 727 HARDEN ST
COLUMBIA, SC 29205

SOURCE: US Environmental Protecton Agency

UST FINDER RELEASE:
Object ID: 20064
Facility ID: SC7641
Lust ID: SC7641_1
Name: R L NEWMAN EXXON 4 2563
Address: 727 HARDEN ST
City,State,Zip: COLUMBIA, SC 29205
Address Match Type: Not reported
Reported Date: 1991/12/17 15:59:59+00
Status: No Further Action
Substance: PETRO
Population within 1500ft: 1856
Domestic Wells within 1500ft: 0
Land Use: Developed, High Intensity
Within SPA: No
SPA PWS Facility ID: Not reported
SPA Water Type: Not reported
SPA Facility Type: Not reported
SPA HUC12: Not reported
Within WHPA: No
WHPA PWS Facility ID: Not reported
WHPA Water Type: Not reported
WHPA Facility Type: Not reported
WHPA HUC12: Not reported
Within 100yr Floodplain: No
Tribe: Not reported
EPA Region: 4
NFA Letter 1: Not reported
NFA Letter 2: Not reported
NFA Letter 3: Not reported
NFA Letter 4: Not reported
Closed With Residual Contaminate: Not reported
Coordinate Source: State
X Coord: -81.01660156
Y Coord: 33.9996948300001
Latitude: 33.99969483
Longitude: -81.01660156

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST FINDER

EDR ID: 1028700415 **DIST/DIR:** 0.213 SSW **ELEVATION:** 216 **MAP ID:** E18

NAME: R L NEWMAN EXXON 4 2563 **Rev:** 06/08/2023

ADDRESS: 727 HARDEN ST
COLUMBIA, SC 29205

SOURCE: US Environmental Protection Agency

UST FINDER:
Object ID: 394207
Facility ID: SC7641
Name: R L NEWMAN EXXON 4 2563
Address: 727 HARDEN ST
City,State,Zip: COLUMBIA, SC 29205
Address Match Type: Not reported
Open USTs: 0
Closed USTs: 4
TOS USTs: 0
Population 1500ft: Not reported
Private Wells 1500ft: 0
Within 100yr Floodplain: No
Land Use: Not reported
Within SPA: No
SPA PWS Facility ID: Not reported
SPA Water Type: Not reported
SPA Facility Type: Not reported
SPA HUC12: Not reported
Within WHPA: No
WHPA PWS Facility ID: Not reported
WHPA Water Type: Not reported
WHPA Facility Type: Not reported
WHPA HUC12: Not reported
Facility Status: Closed UST(s)
Date of Last Inspection: Not reported
EPA Region: 4
Tribe: Not reported
Coordinate Source: State
X Coord: -81.01660156
Y Coord: 33.9996948300001
Latitude: 33.99969483
Longitude: -81.01660156

UST FINDER:
Object ID: 1011803
Facility ID: SC7641
Tank ID: SC7641_4
Tank Status: Closed
Installation Date: Not reported
Removal Date: Not reported
Tank Capacity: 550
Substances: WO
Tank Wall Type: Not reported

- Continued on next page -

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST FINDER

EDR ID: 1028700415 **DIST/DIR:** 0.213 SSW **ELEVATION:** 216 **MAP ID:** E18

NAME: R L NEWMAN EXXON 4 2563 **Rev:** 06/08/2023

ADDRESS: 727 HARDEN ST
COLUMBIA, SC 29205

SOURCE: US Environmental Protection Agency

Object ID: 1011804
Facility ID: SC7641
Tank ID: SC7641_3
Tank Status: Closed
Installation Date: Not reported
Removal Date: Not reported
Tank Capacity: 4000
Substances: GN
Tank Wall Type: Not reported

Object ID: 1011805
Facility ID: SC7641
Tank ID: SC7641_2
Tank Status: Closed
Installation Date: Not reported
Removal Date: Not reported
Tank Capacity: 6000
Substances: GN
Tank Wall Type: Not reported

Object ID: 1011806
Facility ID: SC7641
Tank ID: SC7641_1
Tank Status: Closed
Installation Date: Not reported
Removal Date: Not reported
Tank Capacity: 6000
Substances: GN
Tank Wall Type: Not reported

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST FINDER

EDR ID: 1028692513 **DIST/DIR:** 0.213 SSW **ELEVATION:** 216 **MAP ID:** E19

NAME: FIVE POINTS EXXON **Rev:** 06/08/2023

ADDRESS: 727 HARDEN ST
COLUMBIA, SC 29205

SOURCE: US Environmental Protection Agency

UST FINDER:
Object ID: 394208
Facility ID: SC16865
Name: FIVE POINTS EXXON
Address: 727 HARDEN ST
City,State,Zip: COLUMBIA, SC 29205
Address Match Type: Not reported
Open USTs: 0
Closed USTs: 2
TOS USTs: 0
Population 1500ft: Not reported
Private Wells 1500ft: 0
Within 100yr Floodplain: No
Land Use: Not reported
Within SPA: No
SPA PWS Facility ID: Not reported
SPA Water Type: Not reported
SPA Facility Type: Not reported
SPA HUC12: Not reported
Within WHPA: No
WHPA PWS Facility ID: Not reported
WHPA Water Type: Not reported
WHPA Facility Type: Not reported
WHPA HUC12: Not reported
Facility Status: Closed UST(s)
Date of Last Inspection: Not reported
EPA Region: 4
Tribe: Not reported
Coordinate Source: State
X Coord: -81.01660156
Y Coord: 33.9996948300001
Latitude: 33.99969483
Longitude: -81.01660156

UST FINDER:
Object ID: 989519
Facility ID: SC16865
Tank ID: SC16865_2
Tank Status: Closed
Installation Date: Not reported
Removal Date: Not reported
Tank Capacity: 8000
Substances: PREM
Tank Wall Type: Not reported

- Continued on next page -

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST FINDER

EDR ID: 1028692513 **DIST/DIR:** 0.213 SSW **ELEVATION:** 216 **MAP ID:** E19

NAME: FIVE POINTS EXXON **Rev:** 06/08/2023

ADDRESS: 727 HARDEN ST
COLUMBIA, SC 29205

SOURCE: US Environmental Protection Agency

Object ID: 989520
Facility ID: SC16865
Tank ID: SC16865_1
Tank Status: Closed
Installation Date: Not reported
Removal Date: Not reported
Tank Capacity: 12000
Substances: RUL
Tank Wall Type: Not reported

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST

EDR ID: U004256659 **DIST/DIR:** 0.213 SSW **ELEVATION:** 216 **MAP ID:** E20

NAME: R L NEWMAN EXXON 4 2563

Rev: 10/07/2024
ID/Status: 07641

ADDRESS: 727 HARDEN ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: SC Department of Environmental Services

UST:
Name: R L NEWMAN EXXON 4 2563
Address: 727 HARDEN ST
City: COLUMBIA
Facility ID: 07641
Permit: N 07641
Owner: EXXON MOBIL
Owner Address: 4045 SCENIC HWY
Owner City, st, zip: BATON ROUGE LA 70805
Owner Phone: 303-986-8011

Tank ID: 1
Status: Abandoned
Capacity: 6000
Product: Gasoline
Calcage: 20

Name: R L NEWMAN EXXON 4 2563
Address: 727 HARDEN ST
City: COLUMBIA

Tank ID: 2
Status: Abandoned
Capacity: 6000
Product: Gasoline
Calcage: 20

Name: R L NEWMAN EXXON 4 2563
Address: 727 HARDEN ST
City: COLUMBIA

Tank ID: 3
Status: Abandoned
Capacity: 4000
Product: Gasoline
Calcage: 20

Name: R L NEWMAN EXXON 4 2563
Address: 727 HARDEN ST
City: COLUMBIA

Tank ID: 4
Status: Abandoned
Capacity: 550

- Continued on next page -

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST

EDR ID: U004256659 **DIST/DIR:** 0.213 SSW **ELEVATION:** 216 **MAP ID:** E20

NAME: R L NEWMAN EXXON 4 2563

ADDRESS: 727 HARDEN ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: SC Department of Environmental Services

Rev: 10/07/2024
ID/Status: 07641

Product: Waste oil, burnt oil, used oil
Calcage: 20

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

LUST

EDR ID: U004256659 **DIST/DIR:** 0.213 SSW **ELEVATION:** 216 **MAP ID:** E20

NAME: R L NEWMAN EXXON 4 2563

ADDRESS: 727 HARDEN ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: SC Department of Environmental Services

Rev: 02/10/2025
ID/Status: 05/12/1999
ID/Status: 07641
ID/Status: PETRO

LUST:
Name: R L NEWMAN EXXON 4 2563
Address: 727 HARDEN ST
City,State,Zip: COLUMBIA, SC 29205
Release Number: 1
Facility ID: 07641
Release Status Number: Not reported
Substance: PETRO
Tank Owner Company Name: EXXON MOBIL
Tank Owner Last Name: Not reported
Tank Owner First name: Not reported
NFA Date: 05/12/1999
Tank Owner City: Not reported
Confirmed Date: Not reported
Release Date: 12/17/1991
EID: Not reported
Local Facility District: Not reported
SCRBCA Class Number: Not reported
Release Fin Type Code: Not reported
Qualified: Not reported
Release Source: Not reported
Local Fac Last Name: Not reported
Local Fac First Name: Not reported
User Name: MAYJM
Cleanup Initiated Date: 03/20/1992
Prefix: Not reported
Total Score: Not reported

GW Flow:
Release Date: 12/17/1991
Cleanup Complete Date: Not reported
Depth to Ground Water: Not reported
Ground Water Flow Direction: Not reported
Release Number: 1
Confirmed date: 03/20/1992
RP Name: EXXON MOBIL
RP Address: 217 COUNTRY CLUB PARK PMB# 101
RP City: BIRMINGHAM
RP State: AL
RP Zip: 35213-4237
SCRBCA Class Code: CLASS3BF
Project Manager: MAY, JULIE M
Release Fin Type Code: WS

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST

EDR ID: U004254698 **DIST/DIR:** 0.213 SSW **ELEVATION:** 216 **MAP ID:** E21

NAME: FIVE POINTS EXXON
ADDRESS: 727 HARDEN ST
COLUMBIA, SC 29205
RICHLAND
SOURCE: SC Department of Environmental Services

Rev: 10/07/2024
ID/Status: 16865

UST:
Name: FIVE POINTS EXXON
Address: 727 HARDEN ST
City: COLUMBIA
Facility ID: 16865
Permit: P 16865
Owner: ASH BICKLEY ROAD LLC
Owner Address: PO BOX 101
Owner City, st, zip: COLUMBIA SC 29202-0101
Owner Phone: 803-799-4321

Tank ID: 1
Status: Abandoned
Capacity: 12000
Product: Gasoline RUL
Calcage: 0

Name: FIVE POINTS EXXON
Address: 727 HARDEN ST
City: COLUMBIA

Tank ID: 2
Status: Abandoned
Capacity: 8000
Product: Gasoline Super/Prem
Calcage: 0

Name: FIVE POINTS EXXON
Address: 727 HARDEN ST
City: COLUMBIA

Tank ID: 3
Status: Abandoned
Capacity: 5700
Product: Not reported
Calcage: 50

Name: FIVE POINTS EXXON
Address: 727 HARDEN ST
City: COLUMBIA

Tank ID: 4
Status: Abandoned
Capacity: 5700

- Continued on next page -

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST

EDR ID: U004254698 **DIST/DIR:** 0.213 SSW **ELEVATION:** 216 **MAP ID:** E21

NAME: FIVE POINTS EXXON

ADDRESS: 727 HARDEN ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: SC Department of Environmental Services

Rev: 10/07/2024
ID/Status: 16865

Product: Not reported
Calcage: 50

Name: FIVE POINTS EXXON
Address: 727 HARDEN ST
City: COLUMBIA

Tank ID: 5
Status: Abandoned
Capacity: 5700
Product: Not reported
Calcage: 50

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

LUST

EDR ID: U004254698 **DIST/DIR:** 0.213 SSW **ELEVATION:** 216 **MAP ID:** E21

NAME: FIVE POINTS EXXON
ADDRESS: 727 HARDEN ST
COLUMBIA, SC 29205
RICHLAND
SOURCE: SC Department of Environmental Services

Rev: 02/10/2025
ID/Status: 16865
ID/Status: PETROL

LUST:
Name: FIVE POINTS EXXON
Address: 727 HARDEN ST
City,State,Zip: COLUMBIA, SC 29205
Release Number: 1
Facility ID: 16865
Release Status Number: Not reported
Substance: PETROL
Tank Owner Company Name: ASH BICKLEY ROAD LLC
Tank Owner Last Name: Not reported
Tank Owner First name: Not reported
NFA Date: Not reported
Tank Owner City: Not reported
Confirmed Date: Not reported
Release Date: 06/04/2020
EID: Not reported
Local Facility District: Not reported
SCRBCA Class Number: Not reported
Release Fin Type Code: Not reported
Qualified: Not reported
Release Source: Not reported
Local Fac Last Name: Not reported
Local Fac First Name: Not reported
User Name: SAMPLEJ
Cleanup Initiated Date: 06/25/2020
Prefix: Not reported
Total Score: Not reported

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

RCR

EDR ID: U003558384 **DIST/DIR:** 0.213 SSW **ELEVATION:** 216 **MAP ID:** E22

NAME: R L NEWMAN EXXON 4 2563 **Rev:** 10/01/2024

ADDRESS: 727 HARDEN ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: SC Department of Environmental Services

RCR:
Name: R L NEWMAN EXXON 4 2563
Address: 727 HARDEN ST
City,State,Zip: COLUMBIA, SC 29205
Entity Responsibility: Not reported
Region: Not reported
Tax Id: 11308-07-04
Latitude: 33.99958
Longitude: -81.01662
Tracking Number: 7641
Regulatory Program: Not reported
Reported: 12/17/2091
CU-MCL: 05/12/2099
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

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

RCRA NonGen / NLR

EDR ID: 1000461925 **DIST/DIR:** 0.213 SSW **ELEVATION:** 216 **MAP ID:** E23

NAME: EXXON LOCATION 4-2563

ADDRESS: 727 HARDEN STREET
COLUMBIA, SC 29205
RICHLAND

SOURCE: US Environmental Protection Agency

Rev: 02/17/2025
ID/Status: SCD987578283

RCRA Listings:
Date Form Received by Agency: 19970211
Handler Name: Exxon Location 4-2563
Handler Address: Harden Street
Handler City,State,Zip: COLUMBIA, SC 29205
EPA ID: SCD987578283
Contact Name: ALDA POOL
Contact Address: 800 BELL ROOM 2753X
Contact City,State,Zip: HOUSTON, TX 77002
Contact Telephone: 713-656-7709
Contact Fax: Not reported
Contact Email: Not reported
Contact Title: Not reported
EPA Region: 04
Land Type: Private
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Not reported
State District Owner: Sc
State District: CM
Mailing Address: BELL ROOM 2753X
Mailing City,State,Zip: HOUSTON, TX 77002
Owner Name: Riley Newman
Owner Type: Private
Operator Name: Not reported
Operator Type: Not reported
Short-Term Generator Activity: No
Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility Activity: No
Recycler Activity with Storage: No
Small Quantity On-Site Burner Exemption: No
Smelting Melting and Refining Furnace Exemption: No
Underground Injection Control: No
Off-Site Waste Receipt: No
Universal Waste Indicator: No
Universal Waste Destination Facility: No
Federal Universal Waste: No
Active Site State-Reg Handler: ---
Federal Facility Indicator: Not reported
Hazardous Secondary Material Indicator: N

- Continued on next page -

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

RCRA NonGen / NLR

EDR ID: 1000461925 **DIST/DIR:** 0.213 SSW **ELEVATION:** 216 **MAP ID:** E23

NAME: EXXON LOCATION 4-2563

ADDRESS: 727 HARDEN STREET
COLUMBIA, SC 29205
RICHLAND

SOURCE: US Environmental Protection Agency

Rev: 02/17/2025
ID/Status: SCD987578283

Sub-Part K Indicator: Not reported
2018 GPRA Permit Baseline: Not on the Baseline
2018 GPRA Renewals Baseline: Not on the Baseline
202 GPRA Corrective Action Baseline: No
Subject to Corrective Action Universe: No
Non-TSDFs Where RCRA CA has Been Imposed Universe: No
Corrective Action Priority Ranking: No NCAPS ranking
Environmental Control Indicator: No
Institutional Control Indicator: No
Human Exposure Controls Indicator: N/A
Groundwater Controls Indicator: N/A
Significant Non-Complier Universe: No
Unaddressed Significant Non-Complier Universe: No
Addressed Significant Non-Complier Universe: No
Significant Non-Complier With a Compliance Schedule Universe: No
Financial Assurance Required: Not reported
Handler Date of Last Change: 20150414
Recognized Trader-Importer: No
Recognized Trader-Exporter: No
Importer of Spent Lead Acid Batteries: No
Exporter of Spent Lead Acid Batteries: No
Recycler Activity Without Storage: No
Manifest Broker: No
Sub-Part P Indicator: No

Hazardous Waste Summary:
Waste Code: D000
Waste Description: Not Defined

Waste Code: D001
Waste Description: Ignitable Waste

Waste Code: D008
Waste Description: Lead

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: RILEY NEWMAN
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 1523 MARLEY DR
Owner/Operator City,State,Zip: COLUMBIA, SC 29210

- Continued on next page -

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

RCRA NonGen / NLR

EDR ID: 1000461925 **DIST/DIR:** 0.213 SSW **ELEVATION:** 216 **MAP ID:** E23

NAME: EXXON LOCATION 4-2563

ADDRESS: 727 HARDEN STREET
COLUMBIA, SC 29205
RICHLAND

SOURCE: US Environmental Protection Agency

Rev: 02/17/2025
ID/Status: SCD987578283

Owner/Operator Telephone: 999-999-9999
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19970211
Handler Name: EXXON LOCATION 4-2563
Federal Waste Generator Description: Not a generator, verified
State District Owner: Sc
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

RCR

EDR ID: U003620217 **DIST/DIR:** 0.254 South **ELEVATION:** 219 **MAP ID:** F24

NAME: CIRCLE K 8099 **Rev:** 10/01/2024

ADDRESS: 2100 DEVINE ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: SC Department of Environmental Services

RCR:
Name: CIRCLE K 8099
Address: 2100 DEVINE ST
City,State,Zip: COLUMBIA, SC 29205-2414
Entity Responsibility: Not reported
Region: Not reported
Tax Id: R11312-15-01
Latitude: 33.99852
Longitude: -81.01578
Tracking Number: 7718
Regulatory Program: Not reported
Reported: 01/23/2089
CU-MCL: 01/10/2013
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

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

LUST

EDR ID: U003620217 **DIST/DIR:** 0.254 South **ELEVATION:** 219 **MAP ID:** F24

NAME: CIRCLE K 8099
ADDRESS: 2100 DEVINE ST
COLUMBIA, SC 29205
RICHLAND
SOURCE: SC Department of Environmental Services

Rev: 02/10/2025
ID/Status: 01/10/2013
ID/Status: 07718
ID/Status: PETRO

LUST:
Name: CIRCLE K 8099
Address: 2100 DEVINE ST
City,State,Zip: COLUMBIA, SC 29205-2414
Release Number: 1
Facility ID: 07718
Release Status Number: Not reported
Substance: PETRO
Tank Owner Company Name: CIRCLE K STORES INC
Tank Owner Last Name: Not reported
Tank Owner First name: Not reported
NFA Date: 01/10/2013
Tank Owner City: Not reported
Confirmed Date: Not reported
Release Date: 01/23/1989
EID: Not reported
Local Facility District: Not reported
SCRBCA Class Number: Not reported
Release Fin Type Code: Not reported
Qualified: Not reported
Release Source: Not reported
Local Fac Last Name: Not reported
Local Fac First Name: Not reported
User Name: FULMERSB
Cleanup Initiated Date: 01/31/1989
Prefix: Not reported
Total Score: Not reported

GW Flow:
Release Date: 01/23/1989
Cleanup Complete Date: Not reported
Depth to Ground Water: 6.360
Ground Water Flow Direction: W
Release Number: 1
Confirmed date: 01/31/1989
RP Name: CIRCLE K CORP
RP Address: 5650 BRECKENRIDGE PKY STE 300
RP City: TAMPA
RP State: FL
RP Zip: 33610
SCRBCA Class Code: CLASS3BF
Project Manager: FULMER, SUSAN B
Release Fin Type Code: WS

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST FINDER RELEASE

EDR ID: 1028700493 **DIST/DIR:** 0.254 South **ELEVATION:** 219 **MAP ID:** F25

NAME: CIRCLE K 8099 **Rev:** 06/08/2023

ADDRESS: 2100 DEVINE ST
COLUMBIA, SC

SOURCE: US Environmental Protecton Agency

UST FINDER RELEASE:
Object ID: 20054
Facility ID: SC7718
Lust ID: SC7718_1
Name: CIRCLE K 8099
Address: 2100 DEVINE ST
City,State,Zip: COLUMBIA, SC 0
Address Match Type: Not reported
Reported Date: 1989/01/23 16:00:00+00
Status: No Further Action
Substance: PETRO
Population within 1500ft: 1416
Domestic Wells within 1500ft: 0
Land Use: Developed, High Intensity
Within SPA: No
SPA PWS Facility ID: Not reported
SPA Water Type: Not reported
SPA Facility Type: Not reported
SPA HUC12: Not reported
Within WHPA: No
WHPA PWS Facility ID: Not reported
WHPA Water Type: Not reported
WHPA Facility Type: Not reported
WHPA HUC12: Not reported
Within 100yr Floodplain: No
Tribe: Not reported
EPA Region: 4
NFA Letter 1: Not reported
NFA Letter 2: Not reported
NFA Letter 3: Not reported
NFA Letter 4: Not reported
Closed With Residual Contaminate: Not reported
Coordinate Source: State
X Coord: -81.0158081
Y Coord: 33.99847412
Latitude: 33.99847412
Longitude: -81.0158081

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST FINDER RELEASE

EDR ID: 1029102658 **DIST/DIR:** 0.261 NNW **ELEVATION:** 286 **MAP ID:** G26

NAME: FORMER KAYO/SOC SERVICE STATION **Rev:** 06/08/2023

ADDRESS: 2250 GERVAIS ST
COLUMBIA, SC 29671

SOURCE: US Environmental Protecton Agency

UST FINDER RELEASE:
Object ID: 25394
Facility ID: SC19143
Lust ID: SC19143_1
Name: FORMER KAYO/SOC SERVICE STATION
Address: 2250 GERVAIS ST
City,State,Zip: COLUMBIA, SC 29671
Address Match Type: PointAddress
Reported Date: 2005/09/29 15:59:59+00
Status: No Further Action
Substance: Not reported
Population within 1500ft: 892
Domestic Wells within 1500ft: 0
Land Use: Developed, Medium Intensity
Within SPA: No
SPA PWS Facility ID: Not reported
SPA Water Type: Not reported
SPA Facility Type: Not reported
SPA HUC12: Not reported
Within WHPA: No
WHPA PWS Facility ID: Not reported
WHPA Water Type: Not reported
WHPA Facility Type: Not reported
WHPA HUC12: Not reported
Within 100yr Floodplain: No
Tribe: Not reported
EPA Region: 4
NFA Letter 1: Not reported
NFA Letter 2: Not reported
NFA Letter 3: Not reported
NFA Letter 4: Not reported
Closed With Residual Contaminate: Not reported
Coordinate Source: Geocode
X Coord: -81.01622
Y Coord: 34.0066600000001
Latitude: 34.00666
Longitude: -81.01622

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

LUST

EDR ID: U004255214 **DIST/DIR:** 0.261 NNW **ELEVATION:** 286 **MAP ID:** G27

NAME: N-19143 FORMER KAYO/SOC SERVICE STATION

ADDRESS: 2250 GERVAIS ST
COLUMBIA, SC
RICHLAND

SOURCE: SC Department of Environmental Services

Rev: 02/10/2025
ID/Status: 10/03/2005
ID/Status: 19143

LUST:
Name: FORMER KAYO/SOC SERVICE STATION
Address: 2250 GERVAIS ST
City,State,Zip: COLUMBIA, SC 29671
Release Number: 1
Facility ID: 19143
Release Status Number: Not reported
Substance: Not reported
Tank Owner Company Name: UNKNOWN
Tank Owner Last Name: UNKNOWN
Tank Owner First name: Not reported
NFA Date: 10/03/2005
Tank Owner City: Not reported
Confirmed Date: 10/03/2005
Release Date: 09/29/2005
EID: 15225393
Local Facility District: Columbia EQC Office
SCRBCA Class Number: Not reported
Release Fin Type Code: Not reported
Qualified: Not reported
Release Source: UST
Local Fac Last Name: FORMER KAYO/SOC SERVICE STATION
Local Fac First Name: Not reported
User Name: HIGHTOCW
Cleanup Initiated Date: 10/03/2005
Prefix: N
Total Score: Not reported

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST FINDER RELEASE

EDR ID: 1028688675 **DIST/DIR:** 0.265 SW **ELEVATION:** 234 **MAP ID:** H28

NAME: T J HARRELSON CO **Rev:** 06/08/2023

ADDRESS: 2000 GREENE ST
COLUMBIA, SC

SOURCE: US Environmental Protecton Agency

UST FINDER RELEASE:
Object ID: 25388
Facility ID: SC11658
Lust ID: SC11658_1
Name: T J HARRELSON CO
Address: 2000 GREENE ST
City,State,Zip: COLUMBIA, SC 0
Address Match Type: StreetAddress
Reported Date: 1990/01/11 15:59:59+00
Status: No Further Action
Substance: PETRO
Population within 1500ft: 2319
Domestic Wells within 1500ft: 0
Land Use: Developed, Medium Intensity
Within SPA: No
SPA PWS Facility ID: Not reported
SPA Water Type: Not reported
SPA Facility Type: Not reported
SPA HUC12: Not reported
Within WHPA: No
WHPA PWS Facility ID: Not reported
WHPA Water Type: Not reported
WHPA Facility Type: Not reported
WHPA HUC12: Not reported
Within 100yr Floodplain: No
Tribe: Not reported
EPA Region: 4
NFA Letter 1: Not reported
NFA Letter 2: Not reported
NFA Letter 3: Not reported
NFA Letter 4: Not reported
Closed With Residual Contaminate: Not reported
Coordinate Source: Geocode
X Coord: -81.01859
Y Coord: 33.99963
Latitude: 33.99963
Longitude: -81.01859

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

LUST

EDR ID: U003525763 **DIST/DIR:** 0.265 SW **ELEVATION:** 234 **MAP ID:** H29

NAME: T J HARRELSON CO

ADDRESS: 2000 GREENE ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: SC Department of Environmental Services

Rev: 02/10/2025
ID/Status: 02/03/1995
ID/Status: 11658
ID/Status: PETRO

LUST:
Name: T J HARRELSON CO
Address: 2000 GREENE ST
City,State,Zip: COLUMBIA, SC 29205-1639
Release Number: 1
Facility ID: 11658
Release Status Number: Not reported
Substance: PETRO
Tank Owner Company Name: HARRELSON, T
Tank Owner Last Name: HARRELSON
Tank Owner First name: T
NFA Date: 02/03/1995
Tank Owner City: COLUMBIA
Confirmed Date: 02/03/1995
Release Date: 01/11/1990
EID: 1766142
Local Facility District: Columbia EQC Office
SCRBCA Class Number: Not reported
Release Fin Type Code: UNK
Qualified: Not reported
Release Source: UST
Local Fac Last Name: T J HARRELSON CO
Local Fac First Name: Not reported
User Name: WRIGHTJW
Cleanup Initiated Date: 02/03/1995
Prefix: N
Total Score: Not reported

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST FINDER RELEASE

EDR ID: 1028700529 **DIST/DIR:** 0.285 NW **ELEVATION:** 266 **MAP ID:** I30

NAME: SPEEDWAY 289 **Rev:** 06/08/2023

ADDRESS: 2106 GERVAIS ST
COLUMBIA, SC

SOURCE: US Environmental Protecton Agency

UST FINDER RELEASE:
Object ID: 25387
Facility ID: SC7757
Lust ID: SC7757_1
Name: SPEEDWAY 289
Address: 2106 GERVAIS ST
City,State,Zip: COLUMBIA, SC 0
Address Match Type: StreetAddress
Reported Date: 1981/10/16 16:00:00+00
Status: Open
Substance: PETRO
Population within 1500ft: 988
Domestic Wells within 1500ft: 0
Land Use: Developed, High Intensity
Within SPA: No
SPA PWS Facility ID: Not reported
SPA Water Type: Not reported
SPA Facility Type: Not reported
SPA HUC12: Not reported
Within WHPA: No
WHPA PWS Facility ID: Not reported
WHPA Water Type: Not reported
WHPA Facility Type: Not reported
WHPA HUC12: Not reported
Within 100yr Floodplain: No
Tribe: Not reported
EPA Region: 4
NFA Letter 1: Not reported
NFA Letter 2: Not reported
NFA Letter 3: Not reported
NFA Letter 4: Not reported
Closed With Residual Contaminate: Not reported
Coordinate Source: Geocode
X Coord: -81.0188199999999
Y Coord: 34.00582
Latitude: 34.00582
Longitude: -81.01882

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

LUST

EDR ID: U003970328 **DIST/DIR:** 0.285 NW **ELEVATION:** 266 **MAP ID:** I31

NAME: SPEEDWAY 289

ADDRESS: 2106 GERVAIS ST
COLUMBIA, SC 29203
RICHLAND

SOURCE: SC Department of Environmental Services

Rev: 02/10/2025
ID/Status: 07757
ID/Status: PETRO

LUST:
Name: SPEEDWAY 289
Address: 2106 GERVAIS ST
City,State,Zip: COLUMBIA, SC 29203-7101
Release Number: 1
Facility ID: 07757
Release Status Number: Not reported
Substance: PETRO
Tank Owner Company Name: SPEEDWAY LLC
Tank Owner Last Name: Not reported
Tank Owner First name: Not reported
NFA Date: Not reported
Tank Owner City: Not reported
Confirmed Date: Not reported
Release Date: 10/16/1981
EID: Not reported
Local Facility District: Not reported
SCRBCA Class Number: Not reported
Release Fin Type Code: Not reported
Qualified: Not reported
Release Source: Not reported
Local Fac Last Name: Not reported
Local Fac First Name: Not reported
User Name: WYKELJM
Cleanup Initiated Date: 10/16/1981
Prefix: Not reported
Total Score: Not reported

GW Flow:
Release Date: 10/16/1981
Cleanup Complete Date: Not reported
Depth to Ground Water: 21
Ground Water Flow Direction: W
Release Number: 1
Confirmed date: 10/16/1981
RP Name: MARATHON ASHLAND PETROLEUM LLC
RP Address: 539 S MAIN ST
RP City: FINDLAY
RP State: OH
RP Zip: 45840
SCRBCA Class Code: CLASS2BA
Project Manager: FULMER, SUSAN B
Release Fin Type Code: WS

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

ALLSITES

EDR ID: S127671446 **DIST/DIR:** 0.306 SW **ELEVATION:** 218 **MAP ID:** J32

NAME: WACHOVIA BANK FIVE POINTS

Rev: 12/02/2024
ID/Status: ACTIVE

ADDRESS: 705 SALUDA AVE
COLUMBIA, SC 29205
RICHLAND

SOURCE: SC Department of Environmental Services

ALLSITES:
Name: WACHOVIA BANK FIVE POINTS
Address: 705 SALUDA AVE
City,State,Zip: COLUMBIA, SC 29205
Brownfield: Not reported
Brownfield Type: Not reported
Funds Used: No
Resp Action: No
Permit Number: Not reported
Program: Not reported
Owner: WE LOVE FIVE POINTS LLC
Project Status Code: ACTIVE
Execute Date: 05/26/2022
Restrictions Filed Date: Not yet recorded.
Cleanup Contract Complete Date: Not reported
Project Complete Date: Not yet completed.
File Number: 59420
Land Use Restriction: We do not have enough information yet to determine whether restrictions will be required.
Contamination On Site: Please call 803-898-2000 for this information.
Acreage: 1.22
Soil Contamination Desc: Not reported
Soil COCS: Not reported
SW Sed Contamination Desc: Not reported
SW COCS: Not reported
GW Contamination Desc: Not reported
GW COCS: Not reported
Air Contamination Desc: Not reported
Air COCS: Not reported
Lat: 33.99856
Long: -81.01814

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

BROWNFIELDS

EDR ID: S127671446 **DIST/DIR:** 0.306 SW **ELEVATION:** 218 **MAP ID:** J32

NAME: WACHOVIA BANK FIVE POINTS

ADDRESS: 705 SALUDA AVE
COLUMBIA, SC 29205
RICHLAND

SOURCE: SC Department of Environmental Services

Rev: 01/07/2025
ID/Status: ACTIVE
ID/Status: 59420

SC BROWNFIELD:
Name: WACHOVIA BANK FIVE POINTS
Address: 705 SALUDA AVE
City,State,Zip: COLUMBIA, SC 29205
Contract Number: 21-7623-NRP
Contract Type: NRP
File Number: 59420
Contract Manager: BERENBROK MARK K
Person Company: WE LOVE FIVE POINTS LLC
Primary Address1: PO BOX 50333
Primary Address2: Not reported
Primary City: COLUMBIA
Primary State Code: SC
Primary Zip Code: 29250
Type Brownfield: Not reported
Acreage: 1.22
Contract Executed: 26-May-22
COC Date Issued: Not reported
RC Executed: Not reported
Contact: JAMES E SMITH JR
Status Code: ACTIVE
IC Received: 23-Sep-21
Workplan Due: 12-Jul-22
Workplan Received: 7-Sep-22
Workplan Reviewed: 6-Oct-22
Workplan Approved: Not reported
Report Received: Not reported
Report Reviewed: Not reported
Report Approved: Not reported
Cap Approved: Not reported
Contract Mailed: 25-Jan-22
Date Terminated: Not reported
PCAS Number: 7623
Prim Bill Ind: Y
Master Number: ACTIVE
Category: Master Project Details
Property Contaminants: Not reported
Program: LWM - SARR - Brownfields
Filed With County: Not reported
Type of Covenent: Not reported
Latitude: 33.9986
Longitude: -81.0181

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

VCP

EDR ID: S127671446 **DIST/DIR:** 0.306 SW **ELEVATION:** 218 **MAP ID:** J32

NAME: WACHOVIA BANK FIVE POINTS **Rev:** 03/11/2025

ADDRESS: 705 SALUDA AVE
COLUMBIA, SC 29205
RICHLAND

SOURCE: SC Department of Environmental Services

VCP:
Name: WACHOVIA BANK FIVE POINTS
Address: 705 SALUDA AVE
City,State,Zip: COLUMBIA, SC 29205
Person Company: WE LOVE FIVE POINTS LLC
Prim Address 1: PO BOX 50333
Prim Address 2: Not reported
Prim City: COLUMBIA
Prim State: SC
Prim Zip: 29250
Type Brownfield: Not reported
Contact: JAMES E SMITH JR
Status code: ACTIVE
File Number: 59420
Exec Date: 26-May-22
Contract Mailed Date: 25-Jan-22
Date Terminated: Not reported
Contract #: 21-7623-NRP
Contract Type: NRP
Contract Manager: BERENBROK MARK K
Acreage: 1.22
COC Issued Date: Not reported
RC Executed Date: Not reported
I C Received: 23-Sep-21
Workplan Due: 12-Jul-22
Workplan Receive: 7-Sep-22
Workplan Reviewed: 6-Oct-22
Workplan Approved: Not reported
Report Receive: Not reported
Report Reviewed: Not reported
Report Approved: Not reported
Cap Approved: Not reported
PCAS Number: 7623
Prim Bill Ind: Y
Site ID: Not reported
Project Master Status Code: Not reported
Project Category: Not reported
Brownfields 128a Funds Used: Not reported
Brownfields Action Planned: Not reported
Compliance Action Program Area: Not reported
Compliance Action Status: Not reported
RC Type: Not reported
Contamination Details: Not reported
Latitude: Not reported

- Continued on next page -

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

VCP

EDR ID: S127671446 **DIST/DIR:** 0.306 SW **ELEVATION:** 218 **MAP ID:** J32

NAME: WACHOVIA BANK FIVE POINTS **Rev:** 03/11/2025

ADDRESS: 705 SALUDA AVE
COLUMBIA, SC 29205
RICHLAND

SOURCE: SC Department of Environmental Services

Longitude: Not reported

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

SHWS

EDR ID: S127671446 **DIST/DIR:** 0.306 SW **ELEVATION:** 218 **MAP ID:** J32

NAME: WACHOVIA BANK FIVE POINTS

ADDRESS: 705 SALUDA AVE
COLUMBIA, SC 29205
RICHLAND

SOURCE: SC Department of Environmental Services

Rev: 03/18/2024
ID/Status: SCS123458035

SHWS:
Name: WACHOVIA BANK FIVE POINTS
Address: 705 SALUDA AVE
City,State,Zip: COLUMBIA, SC 29205
EPA ID: SCS123458035

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST FINDER RELEASE

EDR ID: 1028690313 **DIST/DIR:** 0.314 NW **ELEVATION:** 258 **MAP ID:** K33

NAME: EXXON 4 6087 **Rev:** 06/08/2023

ADDRESS: 2020 GERVAIS ST
COLUMBIA, SC 29204

SOURCE: US Environmental Protecton Agency

UST FINDER RELEASE:
Object ID: 20091
Facility ID: SC13962
Lust ID: SC13962_1
Name: EXXON 4 6087
Address: 2020 GERVAIS ST
City,State,Zip: COLUMBIA, SC 29204
Address Match Type: Not reported
Reported Date: 1991/01/30 15:59:59+00
Status: Open
Substance: PETRO
Population within 1500ft: 1035
Domestic Wells within 1500ft: 0
Land Use: Developed, High Intensity
Within SPA: No
SPA PWS Facility ID: Not reported
SPA Water Type: Not reported
SPA Facility Type: Not reported
SPA HUC12: Not reported
Within WHPA: No
WHPA PWS Facility ID: Not reported
WHPA Water Type: Not reported
WHPA Facility Type: Not reported
WHPA HUC12: Not reported
Within 100yr Floodplain: No
Tribe: Not reported
EPA Region: 4
NFA Letter 1: Not reported
NFA Letter 2: Not reported
NFA Letter 3: Not reported
NFA Letter 4: Not reported
Closed With Residual Contaminate: Not reported
Coordinate Source: State
X Coord: -81.01949304
Y Coord: 34.0053612
Latitude: 34.0053612
Longitude: -81.01949304

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

LUST

EDR ID: U004254162 **DIST/DIR:** 0.314 NW **ELEVATION:** 258 **MAP ID:** K34

NAME: EXXON 4 6087

ADDRESS: 2020 GERVAIS ST
COLUMBIA, SC 29204
RICHLAND

SOURCE: SC Department of Environmental Services

Rev: 02/10/2025
ID/Status: 13962
ID/Status: PETRO

LUST:
Name: EXXON 4 6087
Address: 2020 GERVAIS ST
City,State,Zip: COLUMBIA, SC 29204
Release Number: 1
Facility ID: 13962
Release Status Number: 4
Substance: PETRO
Tank Owner Company Name: EXXON MOBIL
Tank Owner Last Name: EXXON MOBIL
Tank Owner First name: Not reported
NFA Date: Not reported
Tank Owner City: COLLIERVILLE
Confirmed Date: 03/15/1991
Release Date: 01/30/1991
EID: 1775821
Local Facility District: Columbia EQC Office
SCRBCA Class Number: 2BA
Release Fin Type Code: WS
Qualified: Y
Release Source: UST
Local Fac Last Name: EXXON 4 6087
Local Fac First Name: Not reported
User Name: WYKELJM
Cleanup Initiated Date: 03/15/1991
Prefix: U
Total Score: Not reported

GW Flow:
Release Date: 01/30/1991
Cleanup Complete Date: Not reported
Depth to Ground Water: 13
Ground Water Flow Direction: SW
Release Number: 1
Confirmed date: 03/15/1991
RP Name: EXXON MOBIL
RP Address: 217 COUNTRY CLUB PARK PMB# 101
RP City: BIRMINGHAM
RP State: AL
RP Zip: 35213-4237
SCRBCA Class Code: CLASS2BA
Project Manager: FULMER, SUSAN B
Release Fin Type Code: WS

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

SHWS

EDR ID: S105621608 **DIST/DIR:** 0.324 SW **ELEVATION:** 216 **MAP ID:** J35

NAME: MASTER CLEANERS INC

ADDRESS: 1907 BLOSSOM ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: SC Department of Environmental Services

Rev: 03/18/2024
ID/Status: SCDRY0056171

SHWS:
Name: MASTER CLEANERS INC
Address: 1907 BLOSSOM ST
City,State,Zip: COLUMBIA, SC 29205
EPA ID: SCDRY0056171

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

BROWNFIELDS

EDR ID: S117361916 **DIST/DIR:** 0.352 NW **ELEVATION:** 251 **MAP ID:** K36

NAME: GREYHOUND BUS TERMINAL

ADDRESS: 2017 GERVAIS ST
COLUMBIA, SC 29201
RICHLAND

SOURCE: SC Department of Environmental Services

Rev: 01/07/2025
ID/Status: COMP
ID/Status: 58214

SC BROWNFIELD:
Name: GREYHOUND BUS TERMINAL
Address: 2017 GERVAIS ST
City,State,Zip: COLUMBIA, SC 29201
Contract Number: 15-6315-NRP
Contract Type: NRP
File Number: 58214
Contract Manager: FULMER WILLIAM ALEXANDER
Person Company: BLUE ATLANTIC COLUMBIA LLC
Primary Address1: Not reported
Primary Address2: Not reported
Primary City: Not reported
Primary State Code: Not reported
Primary Zip Code: Not reported
Type Brownfield: Not reported
Acreage: 4.13
Contract Executed: 18-Mar-15
COC Date Issued: 13-Oct-15
RC Executed: Not reported
Contact: PETER STELIAN
Status Code: COMP
IC Received: 18-Nov-14
Workplan Due: Not reported
Workplan Received: Not reported
Workplan Reviewed: Not reported
Workplan Approved: Not reported
Report Received: Not reported
Report Reviewed: Not reported
Report Approved: Not reported
Cap Approved: Not reported
Contract Mailed: Not reported
Date Terminated: Not reported
PCAS Number: 6315
Prim Bill Ind: Y
Master Number: CLOSED
Category: Master Project Details
Property Contaminants: Metals, Petroleum, VOCs
Program: LWM - SARR - Brownfields
Filed With County: Not reported
Type of Covenent: Not reported
Latitude: 34.0063
Longitude: -81.0201

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

VCP

EDR ID: S117361916 **DIST/DIR:** 0.352 NW **ELEVATION:** 251 **MAP ID:** K36

NAME: GREYHOUND BUS TERMINAL **Rev:** 03/11/2025

ADDRESS: 2017 GERVAIS ST
COLUMBIA, SC 29201
RICHLAND

SOURCE: SC Department of Environmental Services

VCP:
Name: GREYHOUND BUS TERMINAL
Address: 2017 GERVAIS ST
City,State,Zip: COLUMBIA, SC 29201
Person Company: BLUE ATLANTIC COLUMBIA LLC
Prim Address 1: Not reported
Prim Address 2: Not reported
Prim City: Not reported
Prim State: Not reported
Prim Zip: Not reported
Type Brownfield: Not reported
Contact: PETER STELIAN
Status code: COMP
File Number: 58214
Exec Date: 18-Mar-15
Contract Mailed Date: Not reported
Date Terminated: Not reported
Contract #: 15-6315-NRP
Contract Type: NRP
Contract Manager: FULMER WILLIAM ALEXANDER
Acreage: 4.13
COC Issued Date: 13-Oct-15
RC Executed Date: Not reported
I C Received: 18-Nov-14
Workplan Due: Not reported
Workplan Receive: Not reported
Workplan Reviewed: Not reported
Workplan Approved: Not reported
Report Receive: Not reported
Report Reviewed: Not reported
Report Approved: Not reported
Cap Approved: Not reported
PCAS Number: 6315
Prim Bill Ind: Y
Site ID: Not reported
Project Master Status Code: Not reported
Project Category: Not reported
Brownfields 128a Funds Used: Not reported
Brownfields Action Planned: Not reported
Compliance Action Program Area: Not reported
Compliance Action Status: Not reported
RC Type: Not reported
Contamination Details: Not reported
Latitude: Not reported

- Continued on next page -

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

VCP

EDR ID: S117361916 **DIST/DIR:** 0.352 NW **ELEVATION:** 251 **MAP ID:** K36

NAME: GREYHOUND BUS TERMINAL **Rev:** 03/11/2025

ADDRESS: 2017 GERVAIS ST
COLUMBIA, SC 29201
RICHLAND

SOURCE: SC Department of Environmental Services

Longitude: Not reported

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST FINDER RELEASE

EDR ID: 1028690819 **DIST/DIR:** 0.352 NW **ELEVATION:** 251 **MAP ID:** K37

NAME: TRAILWAYS BUS LINES **Rev:** 06/08/2023

ADDRESS: 2015 GERVAIS ST
COLUMBIA, SC 29205

SOURCE: US Environmental Protecton Agency

UST FINDER RELEASE:
Object ID: 25383
Facility ID: SC14551
Lust ID: SC14551_1
Name: TRAILWAYS BUS LINES
Address: 2015 GERVAIS ST
City,State,Zip: COLUMBIA, SC 29205
Address Match Type: StreetAddress
Reported Date: 1993/09/13 15:59:59+00
Status: No Further Action
Substance: PETRO
Population within 1500ft: 998
Domestic Wells within 1500ft: 0
Land Use: Developed, Medium Intensity
Within SPA: No
SPA PWS Facility ID: Not reported
SPA Water Type: Not reported
SPA Facility Type: Not reported
SPA HUC12: Not reported
Within WHPA: No
WHPA PWS Facility ID: Not reported
WHPA Water Type: Not reported
WHPA Facility Type: Not reported
WHPA HUC12: Not reported
Within 100yr Floodplain: No
Tribe: Not reported
EPA Region: 4
NFA Letter 1: Not reported
NFA Letter 2: Not reported
NFA Letter 3: Not reported
NFA Letter 4: Not reported
Closed With Residual Contaminate: Not reported
Coordinate Source: Geocode
X Coord: -81.02027
Y Coord: 34.0056000000001
Latitude: 34.0056
Longitude: -81.02027

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

LUST

EDR ID: U004018047 **DIST/DIR:** 0.352 NW **ELEVATION:** 251 **MAP ID:** K38

NAME: BURNSIDE DODGE

ADDRESS: 2005 GERVAIS ST
COLUMBIA, SC 29201
RICHLAND

SOURCE: SC Department of Environmental Services

Rev: 02/10/2025
ID/Status: 08/02/1995
ID/Status: 16930
ID/Status: PETRO

LUST:
Name: BURNSIDE DODGE
Address: 2005 GERVAIS ST
City,State,Zip: COLUMBIA, SC 29201
Release Number: 1
Facility ID: 16930
Release Status Number: 5
Substance: PETRO
Tank Owner Company Name: BURNSIDE, RICHARD
Tank Owner Last Name: BURNSIDE
Tank Owner First name: RICHARD
NFA Date: 08/02/1995
Tank Owner City: BLYTHEWOOD
Confirmed Date: 01/25/1995
Release Date: 01/23/1995
EID: 1792985
Local Facility District: Columbia EQC Office
SCRBCA Class Number: 5A
Release Fin Type Code: W25
Qualified: Y
Release Source: UST
Local Fac Last Name: BURNSIDE DODGE
Local Fac First Name: Not reported
User Name: PADGETJP
Cleanup Initiated Date: 01/25/1995
Prefix: U
Total Score: Not reported

GW Flow:
Release Date: 01/23/1995
Cleanup Complete Date: 08/02/1995
Depth to Ground Water: Not reported
Ground Water Flow Direction: Not reported
Release Number: 1
Confirmed date: 01/25/1995
RP Name: BURNSIDE
RP Address: RT 1 PO BOX 254
RP City: BLYTHEWOOD
RP State: SC
RP Zip: 29016-9801
SCRBCA Class Code: CLASS5A
Project Manager: PADGETT, JOEL P
Release Fin Type Code: W25

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

LUST

EDR ID: U003521417 **DIST/DIR:** 0.352 NW **ELEVATION:** 251 **MAP ID:** K39

NAME: FORMER HORACE BEECH AUTO SERV

ADDRESS: 2023 GERVAIS ST
COLUMBIA, SC 29201
RICHLAND

SOURCE: SC Department of Environmental Services

Rev: 02/10/2025
ID/Status: 08/02/1995
ID/Status: 16931
ID/Status: PETRO

LUST:
Name: FORMER HORACE BEECH AUTO SERV
Address: 2023 GERVAIS ST
City,State,Zip: COLUMBIA, SC 29201
Release Number: 1
Facility ID: 16931
Release Status Number: 5
Substance: PETRO
Tank Owner Company Name: BURNSIDE, RICHARD
Tank Owner Last Name: BURNSIDE
Tank Owner First name: RICHARD
NFA Date: 08/02/1995
Tank Owner City: BLYTHEWOOD
Confirmed Date: 01/25/1995
Release Date: 01/23/1995
EID: 1792993
Local Facility District: Columbia EQC Office
SCRBCA Class Number: 5A
Release Fin Type Code: W25
Qualified: Y
Release Source: UST
Local Fac Last Name: FORMER HORACE BEECH AUTO SERV
Local Fac First Name: Not reported
User Name: PADGETJP
Cleanup Initiated Date: 01/25/1995
Prefix: U
Total Score: Not reported

GW Flow:
Release Date: 01/23/1995
Cleanup Complete Date: 08/02/1995
Depth to Ground Water: Not reported
Ground Water Flow Direction: Not reported
Release Number: 1
Confirmed date: 01/25/1995
RP Name: BURNSIDE
RP Address: RT 1 PO BOX 254
RP City: BLYTHEWOOD
RP State: SC
RP Zip: 29016-9801
SCRBCA Class Code: CLASS5A
Project Manager: PADGETT, JOEL P
Release Fin Type Code: W25

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

SHWS

EDR ID: S117882395 **DIST/DIR:** 0.352 NW **ELEVATION:** 251 **MAP ID:** K40

NAME: GREYHOUND BUS TERMINAL

Rev: 03/18/2024
ID/Status: SCS123457644

ADDRESS: 2017 GERVAIS ST
COLUMBIA, SC 29201
RICHLAND

SOURCE: SC Department of Environmental Services

SHWS:
Name: GREYHOUND BUS TERMINAL
Address: 2017 GERVAIS ST
City,State,Zip: COLUMBIA, SC 29201
EPA ID: SCS123457644

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST FINDER RELEASE

EDR ID: 1028692548 **DIST/DIR:** 0.352 NW **ELEVATION:** 251 **MAP ID:** K41

NAME: BURNSIDE DODGE **Rev:** 06/08/2023

ADDRESS: 2005 GERVAIS ST
COLUMBIA, SC 29201

SOURCE: US Environmental Protecton Agency

UST FINDER RELEASE:
Object ID: 20101
Facility ID: SC16930
Lust ID: SC16930_1
Name: BURNSIDE DODGE
Address: 2005 GERVAIS ST
City,State,Zip: COLUMBIA, SC 29201
Address Match Type: Not reported
Reported Date: 1995/01/23 15:59:59+00
Status: No Further Action
Substance: PETRO
Population within 1500ft: 950
Domestic Wells within 1500ft: 0
Land Use: Developed, Medium Intensity
Within SPA: No
SPA PWS Facility ID: Not reported
SPA Water Type: Not reported
SPA Facility Type: Not reported
SPA HUC12: Not reported
Within WHPA: No
WHPA PWS Facility ID: Not reported
WHPA Water Type: Not reported
WHPA Facility Type: Not reported
WHPA HUC12: Not reported
Within 100yr Floodplain: No
Tribe: Not reported
EPA Region: 4
NFA Letter 1: Not reported
NFA Letter 2: Not reported
NFA Letter 3: Not reported
NFA Letter 4: Not reported
Closed With Residual Contaminate: Not reported
Coordinate Source: State
X Coord: -81.0203857399999
Y Coord: 34.00628662
Latitude: 34.00628662
Longitude: -81.02038574

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST FINDER RELEASE

EDR ID: 1028692549 **DIST/DIR:** 0.352 NW **ELEVATION:** 251 **MAP ID:** K42

NAME: FORMER HORACE BEECH AUTO SERV **Rev:** 06/08/2023

ADDRESS: 2023 GERVAIS ST
COLUMBIA, SC 29201

SOURCE: US Environmental Protecton Agency

UST FINDER RELEASE:
Object ID: 20096
Facility ID: SC16931
Lust ID: SC16931_1
Name: FORMER HORACE BEECH AUTO SERV
Address: 2023 GERVAIS ST
City,State,Zip: COLUMBIA, SC 29201
Address Match Type: Not reported
Reported Date: 1995/01/23 15:59:59+00
Status: No Further Action
Substance: PETRO
Population within 1500ft: 1010
Domestic Wells within 1500ft: 0
Land Use: Developed, High Intensity
Within SPA: No
SPA PWS Facility ID: Not reported
SPA Water Type: Not reported
SPA Facility Type: Not reported
SPA HUC12: Not reported
Within WHPA: No
WHPA PWS Facility ID: Not reported
WHPA Water Type: Not reported
WHPA Facility Type: Not reported
WHPA HUC12: Not reported
Within 100yr Floodplain: No
Tribe: Not reported
EPA Region: 4
NFA Letter 1: Not reported
NFA Letter 2: Not reported
NFA Letter 3: Not reported
NFA Letter 4: Not reported
Closed With Residual Contaminate: Not reported
Coordinate Source: State
X Coord: -81.0192871099999
Y Coord: 34.0061035200001
Latitude: 34.00610352
Longitude: -81.01928711

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

LUST

EDR ID: U003526060 **DIST/DIR:** 0.352 NW **ELEVATION:** 251 **MAP ID:** K43

NAME: TRAILWAYS BUS LINES

ADDRESS: 2015 GERVAIS ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: SC Department of Environmental Services

Rev: 02/10/2025
ID/Status: 12/30/1994
ID/Status: 14551
ID/Status: PETRO

LUST:
Name: TRAILWAYS BUS LINES
Address: 2015 GERVAIS ST
City,State,Zip: COLUMBIA, SC 29205
Release Number: 1
Facility ID: 14551
Release Status Number: Not reported
Substance: PETRO
Tank Owner Company Name: GREYHOUND LINES INC
Tank Owner Last Name: GREYHOUND LINES INC
Tank Owner First name: Not reported
NFA Date: 12/30/1994
Tank Owner City: DALLAS
Confirmed Date: 08/25/1994
Release Date: 09/13/1993
EID: 1780989
Local Facility District: Columbia EQC Office
SCRBCA Class Number: Not reported
Release Fin Type Code: W25
Qualified: Y
Release Source: UST
Local Fac Last Name: TRAILWAYS BUS LINES
Local Fac First Name: Not reported
User Name: THOMADL
Cleanup Initiated Date: 08/25/1994
Prefix: N
Total Score: Not reported

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

US BROWNFIELDS

EDR ID: 1024008898 **DIST/DIR:** 0.352 NW **ELEVATION:** 251 **MAP ID:** K44

NAME: THE STATION @ FIVE POINTS **Rev:** 09/09/2024

ADDRESS: 2025 GERVAIS ST.
COLUMBIA, SC 29204
RICHLAND

SOURCE: US Environmental Protection Agency

US BROWNFIELDS:
Name: The Station @ Five Points
Address: 2025 Gervais St.
City,State,Zip: COLUMBIA, SC 29204
Property ID: 235228
Property Alias: Harden & Gervais
Recipient Name: City of Columbia
Grant Type: Hazardous
Property Number: Not reported
Parcel Size: 4.2
Latitude: 34.0059548
Longitude: -81.0198177
Census Tract: 45079003100
State or Tribal Voluntary Response Program: Not reported
Program Name: BF
AA Activity Funded: Not reported
Start Date: Not reported
Redev Completition Date: 8/1/2016
Completed Date: Not reported
Cleanup Funding: Not reported
Cleanup Funding Source: Not reported
Activity Funded: Phase II
Assessment Funding: 21000000
Assessment Funding Source: Not reported
Redevelopment Funding: Not reported
Contaminants REC: Asbestos Lead
Contaminants Found at Actionable Level: Asbestos Lead
Redev. Funding Source: Not reported
Redev. Funding Entity Name: Not reported
Contaminants Found Below Actionable Level: Not reported
Redevelopment Start Date: 1/1/2015
Assessment Funding Entity: Not reported
Cleanup Funding Entity: Not reported
Climate Adapt Mitig - Planning or Assessment: Not reported
Cooperative Agreement Number: 00D26414
Start Date: Not reported
Ownership Entity: Not reported
Additional Institutional Controls Information: Not reported
Completion Date: Not reported
Address of Data Sources (URL if available) 1: Not reported
Cleanup Required: Y
Indicates Cleanup/Treatment Tech Implemented: Not reported
Institutional Controls Required: N
IC Category Proprietary Controls: Not reported

- Continued on next page -

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

US BROWNFIELDS

EDR ID: 1024008898 **DIST/DIR:** 0.352 NW **ELEVATION:** 251 **MAP ID:** K44

NAME: THE STATION @ FIVE POINTS **Rev:** 09/09/2024

ADDRESS: 2025 GERVAIS ST.
COLUMBIA, SC 29204
RICHLAND

SOURCE: US Environmental Protection Agency

Excavation and Disposal of Soils: Not reported
Extraction of contaminants: Not reported
IC Cat. Info. Devices: Not reported
Removal of materials (tanks and piping, etc.): Not reported
IC Cat. Gov. Controls: Not reported
Reduction of Contam Bioremediation/Phytoremediation: Not reported
IC Cat. Enforcement Permit Tools: Not reported
Cleanup of structures: Not reported
IC in place date: Not reported
Additional Cleanup/Treatment Tech Info: Not reported
IC in place: Not reported
Address of Data Source (URL if available) 2: Not reported
Indicate whether Engineering Controls are required: N
State/tribal program ID: Not reported
Cover Technologies (e.g., Capping): Not reported
Security (e.g., Guard, Fence): Not reported
Immobilization Process: Not reported
Engineering Barriers (e.g., Slurry Walls, Sheet): Not reported
Other: Not reported
Additional Engineering Controls Information: Not reported
Address of Data Source (URL if available) 3: Not reported
Indicate whether Engineering Controls are in place: Not reported
Date Engineering Controls put into place: Not reported
ACRES Cleaned Up: Not reported
Section 128(a) State/Tribal: Not reported
Multipurpose - Cost Share Amount: Not reported
Cleanup - Cost Share Amount: Not reported
RLF Loan - Total Loan Amount: Not reported
RLF - Loan Signed Date: Not reported
RLF Loan - Anticipated Repayment Start Date: Not reported
RLF Loan - Anticipated Repayment End Date: Not reported
RLF Loan - Interest Rate: Not reported
RLF Loan - EPA Funds Used: Not reported
Contaminant Cleanup: Not reported
RLF Loan - Cost Share Used: Not reported
Media Affected: Building Materials
RLF Loan - Program Income Used: Not reported
Media Cleanup: Not reported
RLF Loan - Discounted: Not reported
RLF Loan - Discount Percentage: Not reported
RLF Subgrant - Total Subgrant Amount: Not reported
RLF Subgrant - Signed Date: Not reported
RLF Subgrant - EPA Funds Used: Not reported
RLF Subgrant - Cost Share Used: Not reported
RLF Subgrant - Program Income Used: Not reported

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Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

US BROWNFIELDS

EDR ID: 1024008898 **DIST/DIR:** 0.352 NW **ELEVATION:** 251 **MAP ID:** K44

NAME: THE STATION @ FIVE POINTS **Rev:** 09/09/2024

ADDRESS: 2025 GERVAIS ST.
COLUMBIA, SC 29204
RICHLAND

SOURCE: US Environmental Protection Agency

RLF Direct Cleanup - Total Funding Amt: Not reported
Num. of cleanup and re-dev. jobs: Not reported
RLF Direct Cleanup - Source of Funding: Not reported
RLF Leveraged - Funding Source Type: Not reported
Past use greenspace acreage: Not reported
Past use residential acreage: Not reported
RLF Leveraged - Entity Providing Funding: Not reported
RLF Leveraged - Funding Amount: Not reported
Cleanup Completion Doc - NFA Letter Received: N
Past use commercial acreage: Not reported
NFA Letter Date Received: Not reported
Past use industrial acreage: Not reported
Cleanup Comp Doc - Letter/Signed Rep Qualified Pro: N
Future use greenspace acreage: Not reported
Letter/Signed Report Date Received: Not reported
Future use residential acreage: 4.2
Future use commercial acreage: Not reported
Cleanup Completion Doc- Other forms of Doc: Not reported
Future use industrial acreage: Not reported
Climate Adapt and Mitiga - Demo or Cleanup: Not reported
ReDev Activity Funded: Not reported
Amount of Funding Expended on this Activity 2: Not reported
Number of Redevelopment Jobs Leveraged: 15
Climate Adaptation and Mitigation Redevelopment: Not reported
Radius: 0.5
Below Poverty Number: 978
Below Poverty Percent: 25.07
Meidan Income: 4233
Meidan Income Number: 1828
Meidan Income Percent: 46.86
Vacant Housing Number: 292
Vacant Housing Percent: 18.61
Unemployed Number: 491
Unemployed Percent: 12.59

Name: The Station @ Five Points
Address: 2025 Gervais St.
City,State,Zip: COLUMBIA, SC 29204
Property ID: 235228
Property Alias: Harden & Gervais
Recipient Name: City of Columbia
Grant Type: Hazardous
Property Number: Not reported
Parcel Size: 4.2
Latitude: 34.0059548

- Continued on next page -

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

US BROWNFIELDS

EDR ID: 1024008898 **DIST/DIR:** 0.352 NW **ELEVATION:** 251 **MAP ID:** K44

NAME: THE STATION @ FIVE POINTS **Rev:** 09/09/2024

ADDRESS: 2025 GERVAIS ST.
COLUMBIA, SC 29204
RICHLAND

SOURCE: US Environmental Protection Agency

Longitude: -81.0198177
Census Tract: 45079003100
State or Tribal Voluntary Response Program: Not reported
Program Name: BF
AA Activity Funded: Not reported
Start Date: Not reported
Redev Completition Date: Not reported
Completed Date: Not reported
Cleanup Funding: Not reported
Cleanup Funding Source: Not reported
Activity Funded: Phase II
Assessment Funding: Not reported
Assessment Funding Source: Not reported
Redevelopment Funding: Not reported
Contaminants REC: Asbestos Lead
Contaminants Found at Actionable Level: Asbestos Lead
Redev. Funding Source: Not reported
Redev. Funding Entity Name: Not reported
Contaminants Found Below Actionable Level: Not reported
Redevelopment Start Date: Not reported
Assessment Funding Entity: Not reported
Cleanup Funding Entity: Not reported
Climate Adapt Mitig - Planning or Assessment: Not reported
Cooperative Agreement Number: 00D26414
Start Date: Not reported
Ownership Entity: Not reported
Additional Institutional Controls Information: Not reported
Completion Date: Not reported
Address of Data Sources (URL if available) 1: Not reported
Cleanup Required: Y
Indicates Cleanup/Treatment Tech Implemented: Not reported
Institutional Controls Required: N
IC Category Proprietary Controls: Not reported
Excavation and Disposal of Soils: Not reported
Extraction of contaminants: Not reported
IC Cat. Info. Devices: Not reported
Removal of materials (tanks and piping, etc.): Not reported
IC Cat. Gov. Controls: Not reported
Reduction of Contam Bioremediation/Phytoremediation: Not reported
IC Cat. Enforcement Permit Tools: Not reported
Cleanup of structures: Not reported
IC in place date: Not reported
Additional Cleanup/Treatment Tech Info: Not reported
IC in place: Not reported
Address of Data Source (URL if available) 2: Not reported

- Continued on next page -

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

US BROWNFIELDS

EDR ID: 1024008898 **DIST/DIR:** 0.352 NW **ELEVATION:** 251 **MAP ID:** K44

NAME: THE STATION @ FIVE POINTS **Rev:** 09/09/2024

ADDRESS: 2025 GERVAIS ST.
COLUMBIA, SC 29204
RICHLAND

SOURCE: US Environmental Protection Agency

Indicate whether Engineering Controls are required: N
State/tribal program ID: Not reported
Cover Technologies (e.g., Capping): Not reported
Security (e.g., Guard, Fence): Not reported
Immobilization Process: Not reported
Engineering Barriers (e.g., Slurry Walls, Sheet): Not reported
Other: Not reported
Additional Engineering Controls Information: Not reported
Address of Data Source (URL if available) 3: Not reported
Indicate whether Engineering Controls are in place: Not reported
Date Engineering Controls put into place: Not reported
ACRES Cleaned Up: Not reported
Section 128(a) State/Tribal: Not reported
Multipurpose - Cost Share Amount: Not reported
Cleanup - Cost Share Amount: Not reported
RLF Loan - Total Loan Amount: Not reported
RLF - Loan Signed Date: Not reported
RLF Loan - Anticipated Repayment Start Date: Not reported
RLF Loan - Anticipated Repayment End Date: Not reported
RLF Loan - Interest Rate: Not reported
RLF Loan - EPA Funds Used: Not reported
Contaminant Cleanup: Not reported
RLF Loan - Cost Share Used: Not reported
Media Affected: Building Materials
RLF Loan - Program Income Used: Not reported
Media Cleanup: Not reported
RLF Loan - Discounted: Not reported
RLF Loan - Discount Percentage: Not reported
RLF Subgrant - Total Subgrant Amount: Not reported
RLF Subgrant - Signed Date: Not reported
RLF Subgrant - EPA Funds Used: Not reported
RLF Subgrant - Cost Share Used: Not reported
RLF Subgrant - Program Income Used: Not reported
RLF Direct Cleanup - Total Funding Amt: Not reported
Num. of cleanup and re-dev. jobs: Not reported
RLF Direct Cleanup - Source of Funding: Not reported
RLF Leveraged - Funding Source Type: Not reported
Past use greenspace acreage: Not reported
Past use residential acreage: Not reported
RLF Leveraged - Entity Providing Funding: Not reported
RLF Leveraged - Funding Amount: Not reported
Cleanup Completion Doc - NFA Letter Received: N
Past use commercial acreage: Not reported
NFA Letter Date Received: Not reported
Past use industrial acreage: Not reported

- Continued on next page -

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

US BROWNFIELDS

EDR ID: 1024008898 **DIST/DIR:** 0.352 NW **ELEVATION:** 251 **MAP ID:** K44

NAME: THE STATION @ FIVE POINTS **Rev:** 09/09/2024

ADDRESS: 2025 GERVAIS ST.
COLUMBIA, SC 29204
RICHLAND

SOURCE: US Environmental Protection Agency

Cleanup Comp Doc - Letter/Signed Rep Qualified Pro: N
Future use greenspace acreage: Not reported
Letter/Signed Report Date Received: Not reported
Future use residential acreage: 4.2
Future use commercial acreage: Not reported
Cleanup Completion Doc- Other forms of Doc: Not reported
Future use industrial acreage: Not reported
Climate Adapt and Mitiga - Demo or Cleanup: Not reported
ReDev Activity Funded: Not reported
Amount of Funding Expended on this Activity 2: Not reported
Number of Redevelopment Jobs Leveraged: Not reported
Climate Adaptation and Mitigation Redevelopment: Not reported
Radius: 0.5
Below Poverty Number: 978
Below Poverty Percent: 25.07
Meidan Income: 4233
Meidan Income Number: 1828
Meidan Income Percent: 46.86
Vacant Housing Number: 292
Vacant Housing Percent: 18.61
Unemployed Number: 491
Unemployed Percent: 12.59

Name: The Station @ Five Points
Address: 2025 Gervais St.
City,State,Zip: COLUMBIA, SC 29204
Property ID: 235228
Property Alias: Harden & Gervais
Recipient Name: City of Columbia
Grant Type: Hazardous
Property Number: Not reported
Parcel Size: 4.2
Latitude: 34.0059548
Longitude: -81.0198177
Census Tract: 45079003100
State or Tribal Voluntary Response Program: Not reported
Program Name: BF
AA Activity Funded: Phase II
Start Date: Not reported
Redev Completition Date: Not reported
Completed Date: Not reported
Cleanup Funding: Not reported
Cleanup Funding Source: Not reported
Activity Funded: Phase II
Assessment Funding: Not reported

- Continued on next page -

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

US BROWNFIELDS

EDR ID: 1024008898 **DIST/DIR:** 0.352 NW **ELEVATION:** 251 **MAP ID:** K44

NAME: THE STATION @ FIVE POINTS **Rev:** 09/09/2024

ADDRESS: 2025 GERVAIS ST.
COLUMBIA, SC 29204
RICHLAND

SOURCE: US Environmental Protection Agency

Assessment Funding Source: Not reported
Redevelopment Funding: Not reported
Contaminants REC: Asbestos Lead
Contaminants Found at Actionable Level: Asbestos Lead
Redev. Funding Source: Not reported
Redev. Funding Entity Name: Not reported
Contaminants Found Below Actionable Level: Not reported
Redevelopment Start Date: Not reported
Assessment Funding Entity: EPA
Cleanup Funding Entity: Not reported
Climate Adapt Mitig - Planning or Assessment: Not reported
Cooperative Agreement Number: 00D26414
Start Date: 2014-10-21 00:00:00
Ownership Entity: Not reported
Additional Institutional Controls Information: Not reported
Completion Date: 2014-12-05 00:00:00
Address of Data Sources (URL if available) 1: Not reported
Cleanup Required: Y
Indicates Cleanup/Treatment Tech Implemented: Not reported
Institutional Controls Required: N
IC Category Proprietary Controls: Not reported
Excavation and Disposal of Soils: Not reported
Extraction of contaminants: Not reported
IC Cat. Info. Devices: Not reported
Removal of materials (tanks and piping, etc.): Not reported
IC Cat. Gov. Controls: Not reported
Reduction of Contam Bioremediation/Phytoremediation: Not reported
IC Cat. Enforcement Permit Tools: Not reported
Cleanup of structures: Not reported
IC in place date: Not reported
Additional Cleanup/Treatment Tech Info: Not reported
IC in place: Not reported
Address of Data Source (URL if available) 2: Not reported
Indicate whether Engineering Controls are required: N
State/tribal program ID: Not reported
Cover Technologies (e.g., Capping): Not reported
Security (e.g., Guard, Fence): Not reported
Immobilization Process: Not reported
Engineering Barriers (e.g., Slurry Walls, Sheet): Not reported
Other: Not reported
Additional Engineering Controls Information: Not reported
Address of Data Source (URL if available) 3: Not reported
Indicate whether Engineering Controls are in place: Not reported
Date Engineering Controls put into place: Not reported
ACRES Cleaned Up: Not reported

- Continued on next page -

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

US BROWNFIELDS

EDR ID: 1024008898 **DIST/DIR:** 0.352 NW **ELEVATION:** 251 **MAP ID:** K44

NAME: THE STATION @ FIVE POINTS **Rev:** 09/09/2024

ADDRESS: 2025 GERVAIS ST.
COLUMBIA, SC 29204
RICHLAND

SOURCE: US Environmental Protection Agency

Section 128(a) State/Tribal: Not reported
Multipurpose - Cost Share Amount: Not reported
Cleanup - Cost Share Amount: Not reported
RLF Loan - Total Loan Amount: Not reported
RLF - Loan Signed Date: Not reported
RLF Loan - Anticipated Repayment Start Date: Not reported
RLF Loan - Anticipated Repayment End Date: Not reported
RLF Loan - Interest Rate: Not reported
RLF Loan - EPA Funds Used: Not reported
Contaminant Cleanup: Not reported
RLF Loan - Cost Share Used: Not reported
Media Affected: Building Materials
RLF Loan - Program Income Used: Not reported
Media Cleanup: Not reported
RLF Loan - Discounted: Not reported
RLF Loan - Discount Percentage: Not reported
RLF Subgrant - Total Subgrant Amount: Not reported
RLF Subgrant - Signed Date: Not reported
RLF Subgrant - EPA Funds Used: Not reported
RLF Subgrant - Cost Share Used: Not reported
RLF Subgrant - Program Income Used: Not reported
RLF Direct Cleanup - Total Funding Amt: Not reported
Num. of cleanup and re-dev. jobs: Not reported
RLF Direct Cleanup - Source of Funding: Not reported
RLF Leveraged - Funding Source Type: Not reported
Past use greenspace acreage: Not reported
Past use residential acreage: Not reported
RLF Leveraged - Entity Providing Funding: Not reported
RLF Leveraged - Funding Amount: Not reported
Cleanup Completion Doc - NFA Letter Received: N
Past use commercial acreage: Not reported
NFA Letter Date Received: Not reported
Past use industrial acreage: Not reported
Cleanup Comp Doc - Letter/Signed Rep Qualified Pro: N
Future use greenspace acreage: Not reported
Letter/Signed Report Date Received: Not reported
Future use residential acreage: 4.2
Future use commercial acreage: Not reported
Cleanup Completion Doc- Other forms of Doc: Not reported
Future use industrial acreage: Not reported
Climate Adapt and Mitiga - Demo or Cleanup: Not reported
ReDev Activity Funded: Not reported
Amount of Funding Expended on this Activity 2: Not reported
Number of Redevelopment Jobs Leveraged: Not reported
Climate Adaptation and Mitigation Redevelopment: Not reported

- Continued on next page -

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

US BROWNFIELDS

EDR ID: 1024008898 **DIST/DIR:** 0.352 NW **ELEVATION:** 251 **MAP ID:** K44

NAME: THE STATION @ FIVE POINTS **Rev:** 09/09/2024

ADDRESS: 2025 GERVAIS ST.
COLUMBIA, SC 29204
RICHLAND

SOURCE: US Environmental Protection Agency

Radius: 0.5
Below Poverty Number: 978
Below Poverty Percent: 25.07
Meidan Income: 4233
Meidan Income Number: 1828
Meidan Income Percent: 46.86
Vacant Housing Number: 292
Vacant Housing Percent: 18.61
Unemployed Number: 491
Unemployed Percent: 12.59

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

SHWS

EDR ID: 1000400845 **DIST/DIR:** 0.366 SW **ELEVATION:** 216 **MAP ID:** 45

NAME: MASTER CLEANERS

ADDRESS: 1908 BLOSSOM ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: SC Department of Environmental Services

Rev: 03/18/2024
ID/Status: SCDRY0051122

SHWS:
Name: MASTER CLEANERS INC
Address: 1908 BLOSSOM ST
City,State,Zip: COLUMBIA, SC 29205
EPA ID: SCDRY0051122

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST FINDER RELEASE

EDR ID: 1028700639 **DIST/DIR:** 0.370 WNW **ELEVATION:** 243 **MAP ID:** L46

NAME: CONSTAN INC **Rev:** 06/08/2023

ADDRESS: 1950 GERVAIS ST
COLUMBIA, SC 0

SOURCE: US Environmental Protecton Agency

UST FINDER RELEASE:
Object ID: 20089
Facility ID: SC7871
Lust ID: SC7871_1
Name: CONSTAN INC
Address: 1950 GERVAIS ST
City,State,Zip: COLUMBIA, SC 0
Address Match Type: Not reported
Reported Date: 1991/12/30 15:59:59+00
Status: No Further Action
Substance: PETRO
Population within 1500ft: 1268
Domestic Wells within 1500ft: 0
Land Use: Developed, Medium Intensity
Within SPA: No
SPA PWS Facility ID: Not reported
SPA Water Type: Not reported
SPA Facility Type: Not reported
SPA HUC12: Not reported
Within WHPA: No
WHPA PWS Facility ID: Not reported
WHPA Water Type: Not reported
WHPA Facility Type: Not reported
WHPA HUC12: Not reported
Within 100yr Floodplain: No
Tribe: Not reported
EPA Region: 4
NFA Letter 1: Not reported
NFA Letter 2: Not reported
NFA Letter 3: Not reported
NFA Letter 4: Not reported
Closed With Residual Contaminate: Not reported
Coordinate Source: State
X Coord: -81.02099609
Y Coord: 34.00488281
Latitude: 34.00488281
Longitude: -81.02099609

Object ID: 20090
Facility ID: SC7871
Lust ID: SC7871_2
Name: CONSTAN INC
Address: 1950 GERVAIS ST
City,State,Zip: COLUMBIA, SC 0

- Continued on next page -

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST FINDER RELEASE

EDR ID: 1028700639 **DIST/DIR:** 0.370 WNW **ELEVATION:** 243 **MAP ID:** L46

NAME: CONSTAN INC **Rev:** 06/08/2023

ADDRESS: 1950 GERVAIS ST
COLUMBIA, SC 0

SOURCE: US Environmental Protecton Agency

Address Match Type: Not reported
Reported Date: 1991/12/30 15:59:59+00
Status: No Further Action
Substance: PETRO
Population within 1500ft: 1268
Domestic Wells within 1500ft: 0
Land Use: Developed, Medium Intensity
Within SPA: No
SPA PWS Facility ID: Not reported
SPA Water Type: Not reported
SPA Facility Type: Not reported
SPA HUC12: Not reported
Within WHPA: No
WHPA PWS Facility ID: Not reported
WHPA Water Type: Not reported
WHPA Facility Type: Not reported
WHPA HUC12: Not reported
Within 100yr Floodplain: No
Tribe: Not reported
EPA Region: 4
NFA Letter 1: Not reported
NFA Letter 2: Not reported
NFA Letter 3: Not reported
NFA Letter 4: Not reported
Closed With Residual Contaminate: Not reported
Coordinate Source: State
X Coord: -81.02099609
Y Coord: 34.00488281
Latitude: 34.00488281
Longitude: -81.02099609

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

RCR

EDR ID: U003520461 **DIST/DIR:** 0.370 WNW **ELEVATION:** 243 **MAP ID:** L47

NAME: CONSTAN INC **Rev:** 10/01/2024

ADDRESS: 1950 GERVAIS ST
COLUMBIA, SC 29201
RICHLAND

SOURCE: SC Department of Environmental Services

RCR:
Name: CONSTAN INC
Address: 1950 GERVAIS ST
City,State,Zip: COLUMBIA, SC 29201-3506
Entity Responsibility: Not reported
Region: Not reported
Tax Id: 11405-11-39
Latitude: 34.00479
Longitude: -81.02097
Tracking Number: 7871
Regulatory Program: Not reported
Reported: 12/30/2091
CU-MCL: 07/31/2017
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

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

LUST

EDR ID: U003520461 **DIST/DIR:** 0.370 WNW **ELEVATION:** 243 **MAP ID:** L47

NAME: CONSTAN INC
ADDRESS: 1950 GERVAIS ST
COLUMBIA, SC 29201
RICHLAND
SOURCE: SC Department of Environmental Services

Rev: 02/10/2025
ID/Status: 07/31/2017
ID/Status: 07871
ID/Status: PETRO

LUST:
Name: CONSTAN INC
Address: 1950 GERVAIS ST
City,State,Zip: COLUMBIA, SC 29201-3506
Release Number: 1
Facility ID: 07871
Release Status Number: Not reported
Substance: PETRO
Tank Owner Company Name: HARMON OIL CO
Tank Owner Last Name: Not reported
Tank Owner First name: Not reported
NFA Date: 07/31/2017
Tank Owner City: Not reported
Confirmed Date: Not reported
Release Date: 12/30/1991
EID: Not reported
Local Facility District: Not reported
SCRBCA Class Number: Not reported
Release Fin Type Code: Not reported
Qualified: Not reported
Release Source: Not reported
Local Fac Last Name: Not reported
Local Fac First Name: Not reported
User Name: KUHNKM
Cleanup Initiated Date: 03/23/1992
Prefix: Not reported
Total Score: Not reported

GW Flow:
Release Date: 12/30/1991
Cleanup Complete Date: Not reported
Depth to Ground Water: 7
Ground Water Flow Direction: E
Release Number: 1
Confirmed date: 03/23/1992
RP Name: SMITH
RP Address: 1950 GERVAIS ST
RP City: COLUMBIA
RP State: SC
RP Zip: 29201-3506
SCRBCA Class Code: CLASS3BA
Project Manager: FULMER, SUSAN B
Release Fin Type Code: DS

- Continued on next page -

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

LUST

EDR ID: U003520461 **DIST/DIR:** 0.370 WNW **ELEVATION:** 243 **MAP ID:** L47

NAME: CONSTAN INC
ADDRESS: 1950 GERVAIS ST
COLUMBIA, SC 29201
RICHLAND
SOURCE: SC Department of Environmental Services

Rev: 02/10/2025
ID/Status: 07/31/2017
ID/Status: 07871
ID/Status: PETRO

Name: CONSTAN INC
Address: 1950 GERVAIS ST
City,State,Zip: COLUMBIA, SC 29201-3506
Release Number: 2
Facility ID: 07871
Release Status Number: Not reported
Substance: PETRO
Tank Owner Company Name: HARMON OIL CO
Tank Owner Last Name: Not reported
Tank Owner First name: Not reported
NFA Date: Not reported
Tank Owner City: Not reported
Confirmed Date: Not reported
Release Date: 12/30/1991
EID: Not reported
Local Facility District: Not reported
SCRBCA Class Number: Not reported
Release Fin Type Code: Not reported
Qualified: Not reported
Release Source: Not reported
Local Fac Last Name: Not reported
Local Fac First Name: Not reported
User Name: WYKELJM
Cleanup Initiated Date: 03/23/1992
Prefix: Not reported
Total Score: Not reported

GW Flow:
Release Date: 12/30/1991
Cleanup Complete Date: Not reported
Depth to Ground Water: 7
Ground Water Flow Direction: E
Release Number: 2
Confirmed date: 03/23/1992
RP Name: SMITH
RP Address: 1950 GERVAIS ST
RP City: COLUMBIA
RP State: SC
RP Zip: 29201-3506
SCRBCA Class Code: CLASS3BA
Project Manager: FULMER, SUSAN B
Release Fin Type Code: DS

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST FINDER RELEASE

EDR ID: 1028691940 **DIST/DIR:** 0.394 NW **ELEVATION:** 282 **MAP ID:** M48

NAME: BUDDY MONTGOMERY AUTO SALES **Rev:** 06/08/2023

ADDRESS: 1239 HARDEN ST
COLUMBIA, SC

SOURCE: US Environmental Protecton Agency

UST FINDER RELEASE:
Object ID: 20108
Facility ID: SC16001
Lust ID: SC16001_2
Name: BUDDY MONTGOMERY AUTO SALES
Address: 1239 HARDEN ST
City,State,Zip: COLUMBIA, SC 0
Address Match Type: Not reported
Reported Date: 1995/12/20 15:59:59+00
Status: No Further Action
Substance: PETRO
Population within 1500ft: 907
Domestic Wells within 1500ft: 0
Land Use: Developed, High Intensity
Within SPA: No
SPA PWS Facility ID: Not reported
SPA Water Type: Not reported
SPA Facility Type: Not reported
SPA HUC12: Not reported
Within WHPA: No
WHPA PWS Facility ID: Not reported
WHPA Water Type: Not reported
WHPA Facility Type: Not reported
WHPA HUC12: Not reported
Within 100yr Floodplain: No
Tribe: Not reported
EPA Region: 4
NFA Letter 1: Not reported
NFA Letter 2: Not reported
NFA Letter 3: Not reported
NFA Letter 4: Not reported
Closed With Residual Contaminate: Not reported
Coordinate Source: State
X Coord: -81.01989746
Y Coord: 34.0068969700001
Latitude: 34.00689697
Longitude: -81.01989746

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

LUST

EDR ID: U001540615 **DIST/DIR:** 0.394 NW **ELEVATION:** 282 **MAP ID:** M49

NAME: BUDDY MONTGOMERY AUTO SALES

ADDRESS: 1239 HARDEN ST
COLUMBIA, SC 29204
RICHLAND

SOURCE: SC Department of Environmental Services

Rev: 02/10/2025
ID/Status: 03/12/1997
ID/Status: 16001
ID/Status: PETRO

LUST:
Name: BUDDY MONTGOMERY AUTO SALES
Address: 1239 HARDEN ST
City,State,Zip: COLUMBIA, SC 29204-1817
Release Number: 2
Facility ID: 16001
Release Status Number: 1
Substance: PETRO
Tank Owner Company Name: HARDEN, JACKIE
Tank Owner Last Name: HARDEN
Tank Owner First name: JACKIE
NFA Date: 03/12/1997
Tank Owner City: CHAPIN
Confirmed Date: 03/29/1996
Release Date: 12/20/1995
EID: 1789453
Local Facility District: Columbia EQC Office
SCRBCA Class Number: 5B
Release Fin Type Code: W25
Qualified: N
Release Source: UST
Local Fac Last Name: BUDDY MONTGOMERY AUTO SALES
Local Fac First Name: Not reported
User Name: AKHVLEKT
Cleanup Initiated Date: 03/29/1996
Prefix: U
Total Score: Not reported

GW Flow:
Release Date: 12/20/1995
Cleanup Complete Date: 03/12/1997
Depth to Ground Water: Not reported
Ground Water Flow Direction: Not reported
Release Number: 2
Confirmed date: 03/29/1996
RP Name: HARDEN
RP Address: 379 ST THOMAS CHURCH RD
RP City: CHAPIN
RP State: SC
RP Zip: 29036
SCRBCA Class Code: CLASS5B
Project Manager: AKHVLEDIANI, KONSTANTINE T
Release Fin Type Code: W25

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST FINDER RELEASE

EDR ID: 1028693408 **DIST/DIR:** 0.420 North **ELEVATION:** 271 **MAP ID:** N50

NAME: IMPORTS ONLY INC **Rev:** 06/08/2023

ADDRESS: 1300 N MILLWOOD AVE
COLUMBIA, SC 29204

SOURCE: US Environmental Protecton Agency

UST FINDER RELEASE:
Object ID: 25404
Facility ID: SC18184
Lust ID: SC18184_1
Name: IMPORTS ONLY INC
Address: 1300 N MILLWOOD AVE
City,State,Zip: COLUMBIA, SC 29204
Address Match Type: PointAddress
Reported Date: 1998/06/25 15:59:59+00
Status: Open
Substance: PETRO
Population within 1500ft: 1378
Domestic Wells within 1500ft: 0
Land Use: Developed, Medium Intensity
Within SPA: No
SPA PWS Facility ID: Not reported
SPA Water Type: Not reported
SPA Facility Type: Not reported
SPA HUC12: Not reported
Within WHPA: No
WHPA PWS Facility ID: Not reported
WHPA Water Type: Not reported
WHPA Facility Type: Not reported
WHPA HUC12: Not reported
Within 100yr Floodplain: No
Tribe: Not reported
EPA Region: 4
NFA Letter 1: Not reported
NFA Letter 2: Not reported
NFA Letter 3: Not reported
NFA Letter 4: Not reported
Closed With Residual Contaminate: Not reported
Coordinate Source: Geocode
X Coord: -81.0142499999999
Y Coord: 34.00926
Latitude: 34.00926
Longitude: -81.01425

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

ALLSITES

EDR ID: U003621195 **DIST/DIR:** 0.420 North **ELEVATION:** 271 **MAP ID:** N51

NAME: IMPORTS ONLY INC

ADDRESS: 1300 N MILLWOOD AVE
COLUMBIA, SC 29204
RICHLAND

SOURCE: SC Department of Environmental Services

Rev: 12/02/2024
ID/Status: ACTIVE

ALLSITES:
Name: IMPORTS ONLY INC
Address: 1300 N MILLWOOD AVE
City,State,Zip: COLUMBIA, SC 29204
Brownfield: Not reported
Brownfield Type: Not reported
Funds Used: No
Resp Action: No
Permit Number: Not reported
Program: Not reported
Owner: 1300 N MILLWOOD LLC
Project Status Code: ACTIVE
Execute Date: 07/08/2021
Restrictions Filed Date: Not yet recorded.
Cleanup Contract Complete Date: Not reported
Project Complete Date: Not yet completed.
File Number: 59370
Land Use Restriction: We do not have enough information yet to determine whether restrictions will be required.
Contamination On Site: Please call 803-898-2000 for this information.
Acreage: 1.9
Soil Contamination Desc: Not reported
Soil COCS: Not reported
SW Sed Contamination Desc: Not reported
SW COCS: Not reported
GW Contamination Desc: Not reported
GW COCS: Not reported
Air Contamination Desc: Not reported
Air COCS: Not reported
Lat: 34.00939
Long: -81.01364

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

BROWNFIELDS

EDR ID: U003621195 **DIST/DIR:** 0.420 North **ELEVATION:** 271 **MAP ID:** N51

NAME: IMPORTS ONLY INC

ADDRESS: 1300 N MILLWOOD AVE
COLUMBIA, SC 29204
RICHLAND

SOURCE: SC Department of Environmental Services

Rev: 01/07/2025
ID/Status: ACTIVE
ID/Status: 59370

SC BROWNFIELD:
Name: IMPORTS ONLY INC
Address: 1300 N MILLWOOD AVE
City,State,Zip: COLUMBIA, SC 29204
Contract Number: 21-7595-NRP
Contract Type: NRP
File Number: 59370
Contract Manager: HODGES ROBERT F
Person Company: 1300 N MILLWOOD LLC
Primary Address1: 1415 GEIGER ST
Primary Address2: Not reported
Primary City: COLUMBIA
Primary State Code: SC
Primary Zip Code: 29201
Type Brownfield: Not reported
Acreage: 1.9
Contract Executed: 8-Jul-21
COC Date Issued: Not reported
RC Executed: Not reported
Contact: CHRISTIAN G. NOESNER
Status Code: ACTIVE
IC Received: 6-May-21
Workplan Due: Not reported
Workplan Received: Not reported
Workplan Reviewed: Not reported
Workplan Approved: Not reported
Report Received: Not reported
Report Reviewed: Not reported
Report Approved: Not reported
Cap Approved: Not reported
Contract Mailed: Not reported
Date Terminated: Not reported
PCAS Number: 7595
Prim Bill Ind: Y
Master Number: ACTIVE
Category: Master Project Details
Property Contaminants: Not reported
Program: LWM - SARR - Brownfields
Filed With County: Not reported
Type of Covenent: Not reported
Latitude: 34.0094
Longitude: -81.0136

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

VCP

EDR ID: U003621195 **DIST/DIR:** 0.420 North **ELEVATION:** 271 **MAP ID:** N51

NAME: IMPORTS ONLY INC **Rev:** 03/11/2025

ADDRESS: 1300 N MILLWOOD AVE
COLUMBIA, SC 29204
RICHLAND

SOURCE: SC Department of Environmental Services

VCP:
Name: IMPORTS ONLY INC
Address: 1300 N MILLWOOD AVE
City,State,Zip: COLUMBIA, SC 29204
Person Company: 1300 N MILLWOOD LLC
Prim Address 1: 1415 GEIGER ST
Prim Address 2: Not reported
Prim City: COLUMBIA
Prim State: SC
Prim Zip: 29201
Type Brownfield: Not reported
Contact: CHRISTIAN G. NOESNER
Status code: ACTIVE
File Number: 59370
Exec Date: 8-Jul-21
Contract Mailed Date: Not reported
Date Terminated: Not reported
Contract #: 21-7595-NRP
Contract Type: NRP
Contract Manager: HODGES ROBERT F
Acreage: 1.9
COC Issued Date: Not reported
RC Executed Date: Not reported
I C Received: 6-May-21
Workplan Due: Not reported
Workplan Receive: Not reported
Workplan Reviewed: Not reported
Workplan Approved: Not reported
Report Receive: Not reported
Report Reviewed: Not reported
Report Approved: Not reported
Cap Approved: Not reported
PCAS Number: 7595
Prim Bill Ind: Y
Site ID: Not reported
Project Master Status Code: Not reported
Project Category: Not reported
Brownfields 128a Funds Used: Not reported
Brownfields Action Planned: Not reported
Compliance Action Program Area: Not reported
Compliance Action Status: Not reported
RC Type: Not reported
Contamination Details: Not reported
Latitude: Not reported

- Continued on next page -

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

VCP

EDR ID: U003621195 **DIST/DIR:** 0.420 North **ELEVATION:** 271 **MAP ID:** N51

NAME: IMPORTS ONLY INC **Rev:** 03/11/2025

ADDRESS: 1300 N MILLWOOD AVE
COLUMBIA, SC 29204
RICHLAND

SOURCE: SC Department of Environmental Services

Longitude: Not reported

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

RCR

EDR ID: U003621195 **DIST/DIR:** 0.420 North **ELEVATION:** 271 **MAP ID:** N51

NAME: IMPORTS ONLY INC **Rev:** 10/01/2024

ADDRESS: 1300 N MILLWOOD AVE
COLUMBIA, SC 29204
RICHLAND

SOURCE: SC Department of Environmental Services

RCR:
Name: IMPORTS ONLY INC
Address: 1300 N MILLWOOD AVE
City,State,Zip: COLUMBIA, SC 29204
Entity Responsibility: Not reported
Region: Not reported
Tax Id: 11411-14-30
Latitude: 34.0093
Longitude: -81.01407
Tracking Number: 18184
Regulatory Program: Not reported
Reported: 06/25/2098
CU-MCL: 07/28/2022
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

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

LUST

EDR ID: U003621195 **DIST/DIR:** 0.420 North **ELEVATION:** 271 **MAP ID:** N51

NAME: IMPORTS ONLY INC

ADDRESS: 1300 N MILLWOOD AVE
COLUMBIA, SC 29204
RICHLAND

SOURCE: SC Department of Environmental Services

Rev: 02/10/2025
ID/Status: 07/28/2022
ID/Status: 18184
ID/Status: PETRO

LUST:
Name: IMPORTS ONLY INC
Address: 1300 N MILLWOOD AVE
City,State,Zip: COLUMBIA, SC 29204
Release Number: 1
Facility ID: 18184
Release Status Number: 2
Substance: PETRO
Tank Owner Company Name: IMPORTS ONLY INC
Tank Owner Last Name: IMPORTS ONLY INC
Tank Owner First name: Not reported
NFA Date: 07/28/2022
Tank Owner City: COLUMBIA
Confirmed Date: 09/08/1998
Release Date: 06/25/1998
EID: 1796562
Local Facility District: Columbia EQC Office
SCRBCA Class Number: 3BA
Release Fin Type Code: WS
Qualified: Y
Release Source: UST
Local Fac Last Name: IMPORTS ONLY INC
Local Fac First Name: Not reported
User Name: WYKELJM
Cleanup Initiated Date: 09/08/1998
Prefix: U
Total Score: Not reported

GW Flow:
Release Date: 06/25/1998
Cleanup Complete Date: Not reported
Depth to Ground Water: 6.980
Ground Water Flow Direction: SE
Release Number: 1
Confirmed date: 09/08/1998
RP Name: IMPORTS ONLY INC
RP Address: 1300 N MILLWOOD AVE
RP City: COLUMBIA
RP State: SC
RP Zip: 29204
SCRBCA Class Code: CLASS3BA
Project Manager: FULMER, SUSAN B
Release Fin Type Code: WS

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

SHWS

EDR ID: U003621195 **DIST/DIR:** 0.420 North **ELEVATION:** 271 **MAP ID:** N51

NAME: IMPORTS ONLY INC

ADDRESS: 1300 N MILLWOOD AVE
COLUMBIA, SC 29204
RICHLAND

SOURCE: SC Department of Environmental Services

Rev: 03/18/2024
ID/Status: SCS123458013

SHWS:
Name: IMPORTS ONLY INC
Address: 1300 N MILLWOOD AVE
City,State,Zip: COLUMBIA, SC 29204
EPA ID: SCS123458013

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

UST FINDER RELEASE

EDR ID: 1028700688 **DIST/DIR:** 0.467 SE **ELEVATION:** 272 **MAP ID:** O52

NAME: YOUNGS 3627 **Rev:** 06/08/2023

ADDRESS: 2527 DEVINE ST
COLUMBIA, SC 29205

SOURCE: US Environmental Protecton Agency

UST FINDER RELEASE:
Object ID: 20056
Facility ID: SC7920
Lust ID: SC7920_1
Name: YOUNGS 3627
Address: 2527 DEVINE ST
City,State,Zip: COLUMBIA, SC 29205
Address Match Type: Not reported
Reported Date: 1989/07/03 16:00:00+00
Status: Open
Substance: PETRO
Population within 1500ft: 1103
Domestic Wells within 1500ft: 0
Land Use: Developed, Medium Intensity
Within SPA: No
SPA PWS Facility ID: Not reported
SPA Water Type: Not reported
SPA Facility Type: Not reported
SPA HUC12: Not reported
Within WHPA: No
WHPA PWS Facility ID: Not reported
WHPA Water Type: Not reported
WHPA Facility Type: Not reported
WHPA HUC12: Not reported
Within 100yr Floodplain: No
Tribe: Not reported
EPA Region: 4
NFA Letter 1: Not reported
NFA Letter 2: Not reported
NFA Letter 3: Not reported
NFA Letter 4: Not reported
Closed With Residual Contaminate: Not reported
Coordinate Source: State
X Coord: -81.00754291
Y Coord: 33.9986653600001
Latitude: 33.99866536
Longitude: -81.00754291

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

LUST

EDR ID: U004019474 **DIST/DIR:** 0.467 SE **ELEVATION:** 272 **MAP ID:** O53

NAME: YOUNGS 3627

ADDRESS: 2527 DEVINE ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: SC Department of Environmental Services

Rev: 02/10/2025
ID/Status: 07920
ID/Status: PETRO

LUST:
Name: YOUNGS 3627
Address: 2527 DEVINE ST
City,State,Zip: COLUMBIA, SC 29205
Release Number: 1
Facility ID: 07920
Release Status Number: Not reported
Substance: PETRO
Tank Owner Company Name: GPM SOUTHEAST LLC
Tank Owner Last Name: Not reported
Tank Owner First name: Not reported
NFA Date: Not reported
Tank Owner City: Not reported
Confirmed Date: Not reported
Release Date: 07/03/1989
EID: Not reported
Local Facility District: Not reported
SCRBCA Class Number: Not reported
Release Fin Type Code: Not reported
Qualified: Not reported
Release Source: Not reported
Local Fac Last Name: Not reported
Local Fac First Name: Not reported
User Name: EPPERSEE
Cleanup Initiated Date: 07/13/1989
Prefix: Not reported
Total Score: Not reported

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

SHWS

EDR ID: S109362349 **DIST/DIR:** 0.593 WSW **ELEVATION:** 300 **MAP ID:** 54 Client Plot

NAME: USC COLISEUM PARKING LOTS

Rev: 03/18/2024
ID/Status: SCS123457114

ADDRESS: GREENE ST
COLUMBIA, SC 29201
RICHLAND

SOURCE: SC Department of Environmental Services

SHWS:
Name: USC COLISEUM PARKING LOTS
Address: GREENE ST
City,State,Zip: COLUMBIA, SC 29201
EPA ID: SCS123457114

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

SHWS

EDR ID: S123664304 **DIST/DIR:** 0.643 North **ELEVATION:** 290 **MAP ID:** 55

NAME: POPE-DAVIS TIRE COMPANY

Rev: 03/18/2024
ID/Status: SCS123457892

ADDRESS: 2368 TAYLOR ST
COLUMBIA, SC 29204
RICHLAND

SOURCE: SC Department of Environmental Services

SHWS:
Name: POPE-DAVIS TIRE COMPANY
Address: 2368 TAYLOR ST
City,State,Zip: COLUMBIA, SC 29204
EPA ID: SCS123457892

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

SHWS

EDR ID: S121604266 **DIST/DIR:** 0.711 West **ELEVATION:** 327 **MAP ID:** 56 Client Plot

NAME: COLUMBIA PINTSCH GAS PLANT

ADDRESS: NEAR 919 CATAWBA ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: SC Department of Environmental Services

Rev: 03/18/2024
ID/Status: SCS123456969

SHWS:
Name: COLUMBIA PINTSCH GAS PLANT
Address: NEAR 919 CATAWBA ST
City,State,Zip: COLUMBIA, SC 29205
EPA ID: SCS123456969

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

SHWS

EDR ID: S127626726 **DIST/DIR:** 0.731 NW **ELEVATION:** 280 **MAP ID:** 57

NAME: 1911 1919 1921 TAYLOR STREET

Rev: 03/18/2024
ID/Status: SCS123458073

ADDRESS: 1911 1919 1921 TAYLOR ST
COLUMBIA, SC 29201
RICHLAND

SOURCE: SC Department of Environmental Services

SHWS:
Name: 1911 1919 1921 TAYLOR STREET
Address: 1911 1919 1921 TAYLOR ST
City,State,Zip: COLUMBIA, SC 29201
EPA ID: SCS123458073

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

SHWS

EDR ID: S116715647 **DIST/DIR:** 0.743 West **ELEVATION:** 320 **MAP ID:** 58

NAME: BAUKNIGHT PIETRAS AND STORMER / DUNBAR

Rev: 03/18/2024
ID/Status: SCS123457600

ADDRESS: 1517 GERVAIS ST
COLUMBIA, SC 29201
RICHLAND

SOURCE: SC Department of Environmental Services

SHWS:
Name: BAUKNIGHT PIETRAS AND STORMER / DUNBAR
Address: 1517 GERVAIS ST
City,State,Zip: COLUMBIA, SC 29201-3411
EPA ID: SCS123457600

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

SHWS

EDR ID: S105621661 **DIST/DIR:** 0.749 NE **ELEVATION:** 311 **MAP ID:** P59

NAME: FMR SUNSHINE LAUNDRY AND CLEANERS

Rev: 03/18/2024
ID/Status: SCDRY0056449

ADDRESS: 1500 WOODROW ST
COLUMBIA, SC 29205
RICHLAND

SOURCE: SC Department of Environmental Services

SHWS:
Name: FMR SUNSHINE LAUNDRY AND CLEANERS
Address: 1500 WOODROW ST
City,State,Zip: COLUMBIA, SC 29205-1233
EPA ID: SCDRY0056449

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

SHWS

EDR ID: U004291729 **DIST/DIR:** 0.767 North **ELEVATION:** 316 **MAP ID:** 60

NAME: MUSC HEALTH COLUMBIA MEDICAL CENTER DOWNTOWN **Rev:** 03/18/2024
ID/Status: SCS123458029

ADDRESS: 2435 FOREST DR
COLUMBIA, SC 29204
RICHLAND

SOURCE: SC Department of Environmental Services

SHWS:
Name: PROVIDENCE HOSPITAL
Address: 2435 FOREST DR
City,State,Zip: COLUMBIA, SC 29204
EPA ID: SCS123458029

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

SHWS

EDR ID: S126293057 **DIST/DIR:** 0.787 NE **ELEVATION:** 308 **MAP ID:** P61

NAME: TRIPP'S FINE CLEANERS

ADDRESS: 2710 GERVAIS ST
COLUMBIA, SC 29204
RICHLAND

SOURCE: SC Department of Environmental Services

Rev: 03/18/2024
ID/Status: SCS123457968

SHWS:
Name: TRIPP'S FINE CLEANERS
Address: 2710 GERVAIS ST
City,State,Zip: COLUMBIA, SC 29204
EPA ID: SCS123457968

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

SHWS

EDR ID: S109694641 **DIST/DIR:** 0.812 NNE **ELEVATION:** 313 **MAP ID:** 62

NAME: PROVIDENCE ST PROPERTY/PROVIDENCE HOSP

Rev: 03/18/2024
ID/Status: SCS123456983

ADDRESS: 1702 PROVIDENCE ST
COLUMBIA, SC 29204
RICHLAND

SOURCE: SC Department of Environmental Services

SHWS:
Name: PROVIDENCE ST PROPERTY/PROVIDENCE HOSP
Address: 1702 PROVIDENCE ST
City,State,Zip: COLUMBIA, SC 29204
EPA ID: SCS123456983

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

SHWS

EDR ID: S107454540 **DIST/DIR:** 0.826 NNE **ELEVATION:** 310 **MAP ID:** 63

NAME: 2551 FOREST DRIVE

ADDRESS: 2551 FOREST DR
COLUMBIA, SC 29204
RICHLAND

SOURCE: SC Department of Environmental Services

Rev: 03/18/2024
ID/Status: SCDRY0056110

SHWS:
Name: ED ROBINSON LAUNDRY & DRY CLEANING INC
Address: 2551 FOREST DR
City,State,Zip: COLUMBIA, SC 29204
EPA ID: SCDRY0056110

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

SHWS

EDR ID: S128981920 **DIST/DIR:** 0.886 West **ELEVATION:** 313 **MAP ID:** 64

NAME: CLAIRE TOWER PARKING

ADDRESS: 1320 SENATE ST
COLUMBIA, SC 29201
RICHLAND

SOURCE: SC Department of Environmental Services

Rev: 03/18/2024
ID/Status: SCS123458078

SHWS:
Name: CLAIRE TOWER PARKING
Address: 1320 SENATE ST
City,State,Zip: COLUMBIA, SC 29201
EPA ID: SCS123458078

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

SHWS

EDR ID: S129180365 **DIST/DIR:** 0.944 WNW **ELEVATION:** 304 **MAP ID:** 65

NAME: POPE-DAVIS TIRE & AUTOMOTIVE

Rev: 03/18/2024
ID/Status: SCS123458093

ADDRESS: 1531 TAYLOR ST
COLUMBIA, SC 29201
RICHLAND

SOURCE: SC Department of Environmental Services

SHWS:
Name: POPE-DAVIS TIRE & AUTOMOTIVE
Address: 1531 TAYLOR ST
City,State,Zip: COLUMBIA, SC 29201
EPA ID: SCS123458093

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

SHWS

EDR ID: S107454499 **DIST/DIR:** 0.944 East **ELEVATION:** 307 **MAP ID:** 66

NAME: MILLWOOD AVE 3023 - BUILDING 4

Rev: 03/18/2024
ID/Status: SCDRY0056215

ADDRESS: 3023 MILLWOOD AVE
COLUMBIA, SC 29205
RICHLAND

SOURCE: SC Department of Environmental Services

SHWS:
Name: ED ROBINSON CLEANERS
Address: 3023 MILLWOOD AVE
City,State,Zip: COLUMBIA, SC 29204
EPA ID: SCDRY0056215

Site Detail Report

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

SHWS

EDR ID: S117667481 **DIST/DIR:** 0.946 West **ELEVATION:** 318 **MAP ID:** 67

NAME: VACANT BLDG

ADDRESS: 1321 LADY ST
COLUMBIA, SC 29201
RICHLAND

SOURCE: SC Department of Environmental Services

Rev: 03/18/2024
ID/Status: SCS123457724

SHWS:
Name: 1321 LADY ST
Address: 1321 LADY ST
City,State,Zip: COLUMBIA, SC 29201
EPA ID: SCS123457724

Database Descriptions

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

NPL Delisted: Delisted NPL 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. Delisted NPL - National Priority List Deletions

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

NFRAP: SEMS-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. SEMS-ARCHIVE - Superfund Enterprise Management System Archive

RCRA COR ACT: CORRACTS CORRACTS identifies hazardous waste handlers with RCRA corrective action activity. CORRACTS - Corrective Action Report

RCRA TSD: RCRA-TSDF 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. RCRA-TSDF - RCRA - Treatment, Storage and Disposal

RCRA GEN: RCRA-LQG 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. RCRA-LQG - RCRA - Large Quantity Generators RCRA-SQG - RCRA - Small Quantity Generators. RCRA-VSQG - RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators).

Federal IC / EC: LUCIS LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties. LUCIS - Land Use Control Information System US ENG CONTROLS - Engineering Controls Sites List. US INST CONTROLS - Institutional Controls Sites List.

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

Database Descriptions

State/Tribal CERCLIS: SHWS 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. SHWS - Site Assessment Section Project List

State/Tribal SWL: SWF/LF 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. SWF/LF - Permitted Landfills List

State/Tribal LTANKS: LUST 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. LUST - Leaking Underground Storage Tank List INDIAN LUST R9 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R10 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R7 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R6 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R5 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R4 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R8 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R1 - Leaking Underground Storage Tanks on Indian Land.

State/Tribal Tanks: FEMA UST A listing of all FEMA owned underground storage tanks. FEMA UST - Underground Storage Tank Listing UST - Comprehensive Underground Storage Tanks. AST - Aboveground Storage Tank List. INDIAN UST R1 - Underground Storage Tanks on Indian Land. INDIAN UST R5 - Underground Storage Tanks on Indian Land. INDIAN UST R10 - Underground Storage Tanks on Indian Land. INDIAN UST R6 - Underground Storage Tanks on Indian Land. INDIAN UST R8 - Underground Storage Tanks on Indian Land. INDIAN UST R4 - Underground Storage Tanks on Indian Land. INDIAN UST R7 - Underground Storage Tanks on Indian Land. INDIAN UST R9 - Underground Storage Tanks on Indian Land. GWT - GWT Management Tracking.

State/Tribal IC / EC: 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. RCR - Registry of Conditional Remedies AUL - Land Use Controls.

State/Tribal VCP: INDIAN VCP R7 VCP - Voluntary Cleanup Sites. INDIAN VCP R1 - Voluntary Cleanup Priority Listing. A listing of voluntary cleanup priority sites located on Indian Land located in Region 7. INDIAN VCP R1 - Voluntary Cleanup Priority Lisitng

ST/Tribal Brownfields: BROWNFIELDS 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. BROWNFIELDS - Brownfields Sites Listing

US Brownfields: US BROWNFIELDS 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. US BROWNFIELDS - A Listing of Brownfields Sites

Other SWF: INDIAN ODI Location of open dumps on Indian land. INDIAN ODI - Report on the Status of Open Dumps on Indian Lands ODI - Open Dump Inventory.

Database Descriptions

Other Haz Sites: ALLSITES 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. ALLSITES - Site Assessment & Remediation Public Record Database

Spills: SPILLS Spills and releases of petroleum and hazardous chemicals reported to the Oil & Chemical Emergency Response division. SPILLS - Spill List

Other: RCRA NonGen / NLR 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. RCRA NonGen / NLR - RCRA - Non Generators / No Longer Regulated FEDLAND - Federal and Indian Lands. SCRD DRYCLEANERS - State Coalition for Remediation of Drycleaners Listing. TRIS - Toxic Chemical Release Inventory System. PRP - Potentially Responsible Parties. RADINFO - Radiation Information Database. BRS - Biennial Reporting System. INDIAN RESERV - Indian Reservations. UMTRA - Uranium Mill Tailings Sites. LEAD SMELTER 1 - Lead Smelter Sites. LEAD SMELTER 2 - Lead Smelter Sites. US AIRS (AFS) - Aerometric Information Retrieval System Facility Subsystem (AFS). US AIRS MINOR - Air Facility System Data. MINES VIOLATIONS - MSHA Violation Assessment Data. US MINES - Mines Master Index File. US MINES 2 - Ferrous and Nonferrous Metal Mines Database Listing. US MINES 3 - Active Mines & Mineral Plants Database Listing. MINES MRDS - Mineral Resources Data System. ABANDONED MINES - Abandoned Mines. PFAS NPL - Superfund Sites with PFAS Detections Information. PFAS FEDERAL SITES - Federal Sites PFAS Information. PFAS TSCA - PFAS Manufacture and Imports Information. PFAS TRIS - List of PFAS Added to the TRI. 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 PROJECT - NORTHEASTERN UNIVERSITY PFAS PROJECT. PFAS ECHO - Facilities in Industries that May Be Handling PFAS Listing. PFAS ECHO FIRE TRAIN - Facilities in Industries that May Be Handling PFAS Listing. PFAS PT 139 AIRPORT - All Certified Part 139 Airports PFAS Information Listing. AQUEOUS FOAM NRC - Aqueous Foam Related Incidents Listing. PCS ENF - Enforcement data. PCS - Permit Compliance System. BIOSOLIDS - ICIS-NPDES Biosolids Facility Data. UST FINDER - UST Finder Database. UST FINDER RELEASE - UST Finder Releases Database. E MANIFEST - Hazardous Waste Electronic Manifest System. PFAS ASWP - Ambient Surface Water Project PFAS Information Listing. PFAS DWS - Surface Water PFAS Information Listing. AIRS - Permiited Airs Facility Listing. DRYCLEANERS - Drycleaner Database. GWCI - Groundwater Contamination Inventory.

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

Exclusive Recovered Govt. Archives: RGA HWS 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. 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.

Database Sources

NPL: EPA

Updated Quarterly

NPL Delisted: EPA

Updated Quarterly

CERCLIS: Environmental Protection Agency

Varies

NFRAP: EPA

Updated Quarterly

RCRA COR ACT: EPA

Updated Quarterly

RCRA TSD: Environmental Protection Agency

Updated Quarterly

RCRA GEN: Environmental Protection Agency

Updated Quarterly

Federal IC / EC: Department of the Navy

Varies

ERNS: National Response Center, United States Coast Guard

Updated Quarterly

State/Tribal CERCLIS: Department of Environmental Services

Updated Semi-Annually

State/Tribal SWL: Department of Environmental Services

Updated Semi-Annually

State/Tribal LTANKS: Department of Environmental Services

Updated Quarterly

State/Tribal Tanks: FEMA

Varies

Database Sources

State/Tribal IC / EC: Department of Environmental Services

Varies

State/Tribal VCP: Department of Environmental Services

Varies

ST/Tribal Brownfields: Department of Environmental Services

Varies

US Brownfields: Environmental Protection Agency

Updated Semi-Annually

Other SWF: Environmental Protection Agency

Varies

Other Haz Sites: Department of Environmental Services

Updated Quarterly

Spills: Department of Environmental Services

Updated Semi-Annually

Other: Environmental Protection Agency

Updated Quarterly

EDR Exclusive: EDR, Inc.

No Update Planned

Exclusive Recovered Govt. Archives: Department of Environmental Services

Varies

Street Name Report for Streets near the Target Property

Target Property: 2225 COLLEGE STREET
COLUMBIA, SC 29205

JOB: HPS ENV-1

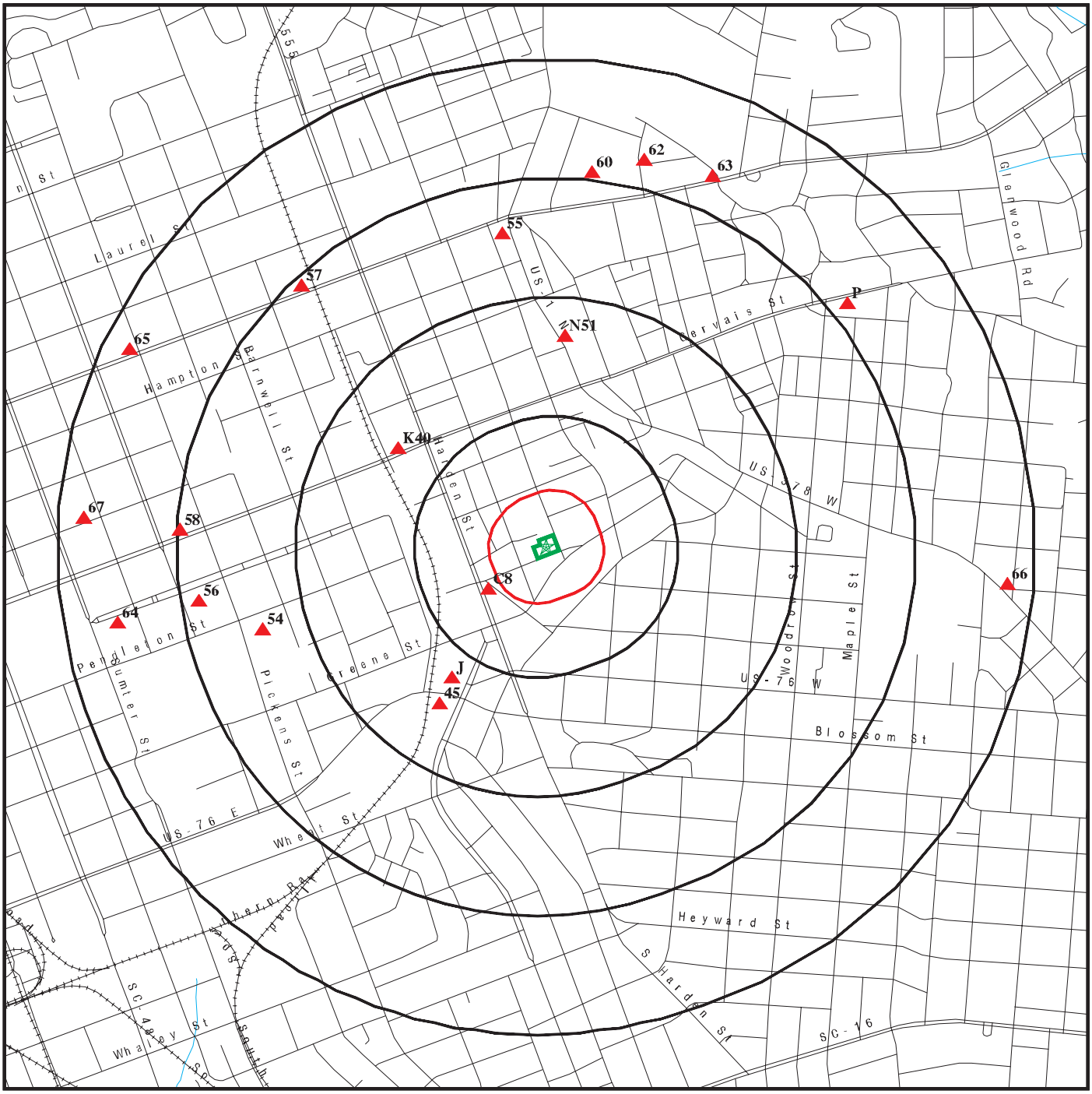
Street Name	Dist/Dir	Street Name	Dist/Dir
College St	0.01 SSE		
Cypress St	0.22 East		
Deal St	0.23 NNE		
Grahams Aly	0.17 North		
Greene St	0.04 SE		
Harden St	0.15 WSW		
Heidt St	0.15 ENE		
Lee St	0.16 South		
Oak St	0.03 ENE		
Pavillion Ave	0.13 SW		
Pendleton St	0.13 NNW		
Pine St	0.06 WSW		
Preston St	0.13 ESE		
Saluda Ave	0.22 SSW		
Santee Ave	0.13 SE		
Senate St	0.22 NNW		
Stark St	0.04 NNW		
Walnut St	0.10 West		

Environmental FirstSearch

1.000 Mile Radius

ASTM MAP: NPL, RCRACOR, STATES Sites

2225 COLLEGE STREET COLUMBIA, SC 29205



Black Rings Represent Qtr. Mile Radius; Red Ring Represents 500 ft. Radius

★ Target Property (Latitude: 34.002628 Longitude: 81.014643)

▲ Identified Sites

National Priority List Sites

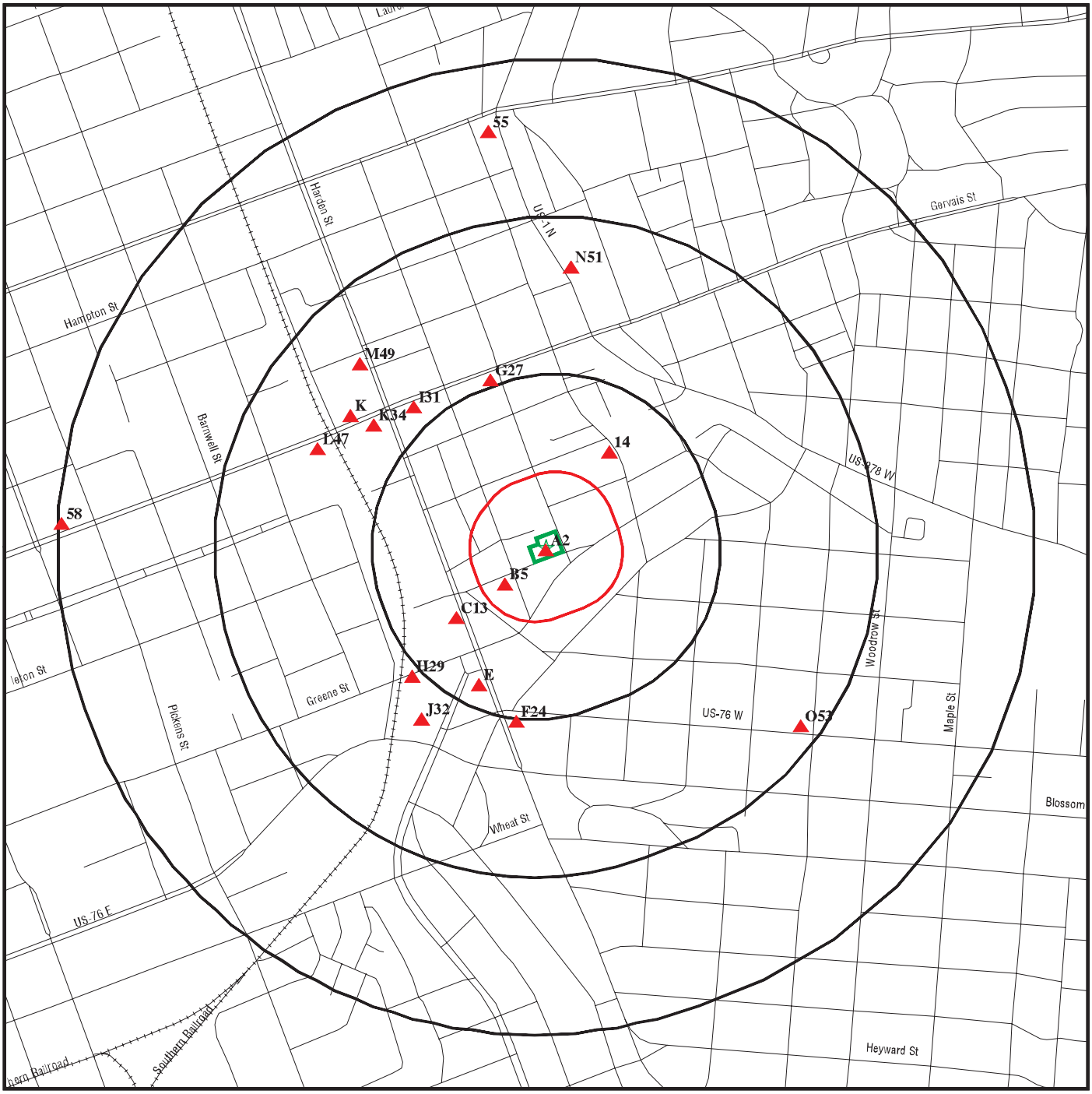
Indian Reservations BIA

Environmental FirstSearch

0.750 Mile Radius

ASTM MAP: CERCLIS, RCRATSD, LUST, SWL

2225 COLLEGE STREET COLUMBIA, SC 29205



Black Rings Represent Qtr. Mile Radius; Red Ring Represents 500 ft. Radius

★ Target Property (Latitude: 34.002628 Longitude: 81.014643)

▲ Identified Sites

National Priority List Sites

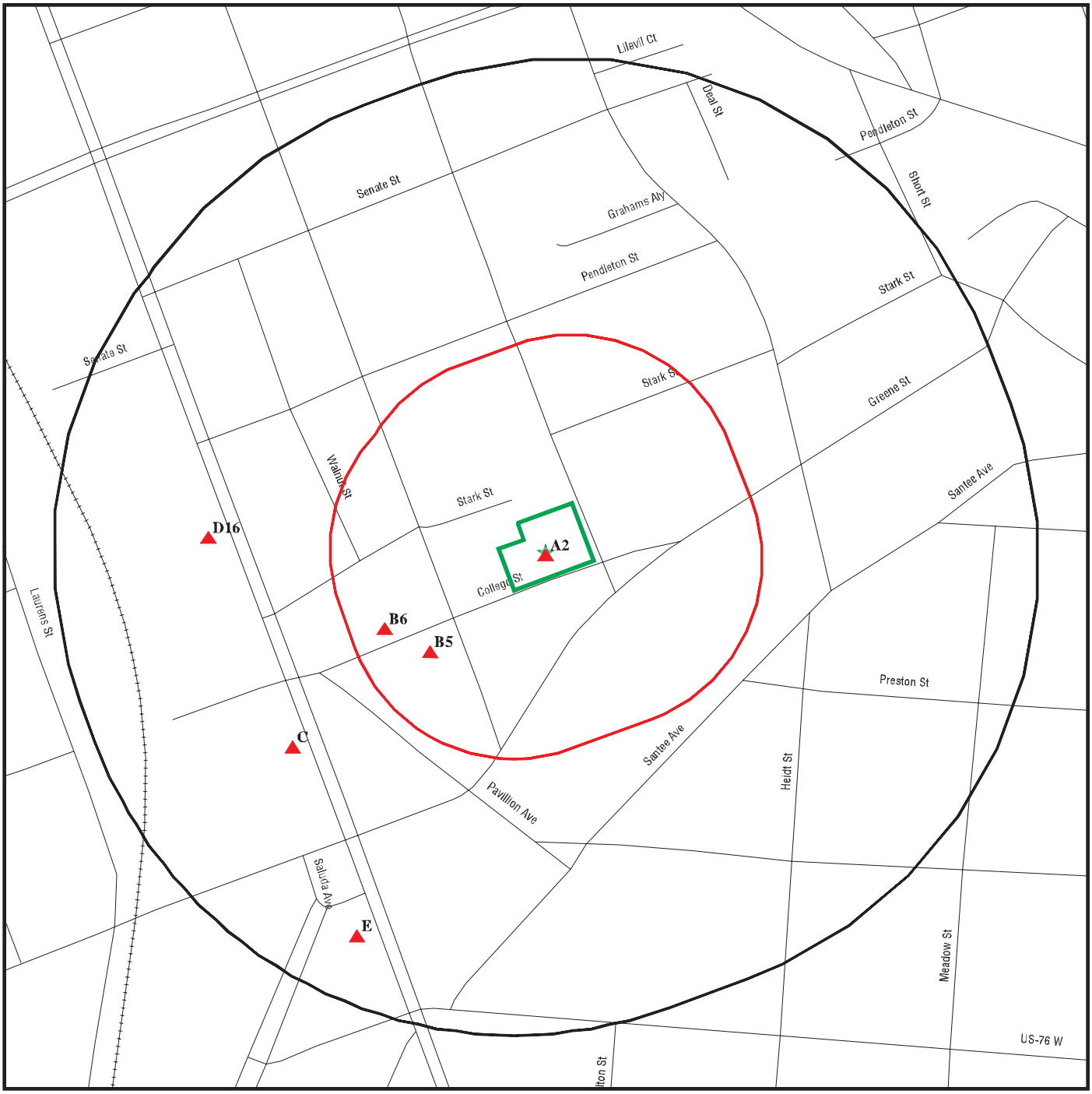
Indian Reservations BIA

Environmental FirstSearch

0.25 Mile Radius

ASTM MAP: RCRAGEN, ERNS, UST, FED IC/EC, METH LABS

2225 COLLEGE STREET COLUMBIA, SC 29205



Black Rings Represent Qtr. Mile Radius; Red Ring Represents 500 ft. Radius

★ Target Property (Latitude: 34.002628 Longitude: 81.014643)

▲ Identified Sites

National Priority List Sites

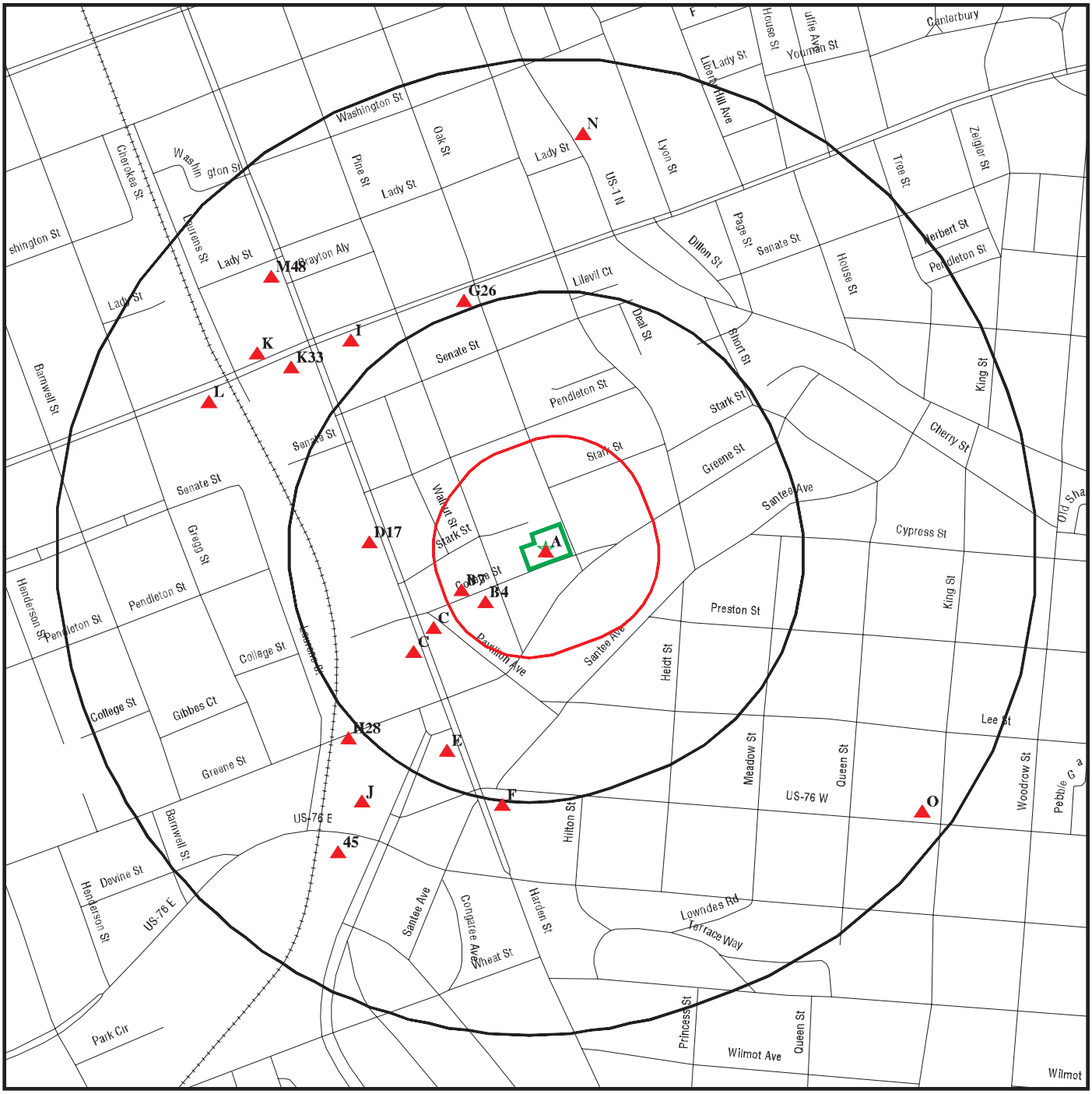
Indian Reservations BIA

Environmental FirstSearch

0.500 Mile Radius

Non ASTM Map, Spills, FINDS

2225 COLLEGE STREET COLUMBIA, SC 29205



Black Rings Represent Qtr. Mile Radius; Red Ring Represents 500 ft. Radius

★ Target Property (Latitude: 34.002628 Longitude: 81.014643)

▲ Identified Sites

Sensitive Receptors

National Priority List Sites

Indian Reservations BIA

Site location Map

Topo: 0.75 Mile Radius

2225 COLLEGE STREET COLUMBIA, SC 29205

Map Image Position: TP
Map Reference Code & Name: 15786838 Columbia North
Map State(s): SC
Version Date: 2020
Map Image Position: NE
Map Reference Code & Name: 15786736 Fort Jackson North
Map State(s): SC
Version Date: 2020

Map Image Position: SE
Map Reference Code & Name: 15605162 Fort Jackson South
Map State(s): SC
Version Date: 2020
Map Image Position: SW
Map Reference Code & Name: 15655176 Southwest Columbia
Map State(s): SC
Version Date: 2020

Arrington Manor
2225 College Street
Columbia, SC 29205

Inquiry Number: 7984093.2s
May 9, 2025

EDR Vapor Encroachment Screen

Prepared using EDR's Vapor Encroachment Worksheet

EDR® Environmental Data Resources Inc

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

TABLE OF CONTENTS

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

EXECUTIVE SUMMARY

A search of available environmental records was conducted by EDR. The report was designed to assist parties seeking to meet the search requirements of the ASTM Standard Practice for Assessment of Vapor Encroachment into Structures on Property Involved in Real Estate Transactions (E 2600).

STANDARD ENVIRONMENTAL RECORDS	Default Area of Concern (Miles)*	property	1/10	> 1/10
Lists of Federal NPL (Superfund) sites	1.0	0	0	0
Lists of Federal Delisted NPL sites	0.5	0	0	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders	0.5	0	0	0
Lists of Federal CERCLA sites with NFRAP	0.5	0	0	0
Lists of Federal RCRA facilities undergoing Corrective Action	1.0	0	0	0
Lists of Federal RCRA TSD facilities	0.5	0	0	0
Lists of Federal RCRA generators	0.25	0	0	0
Federal institutional controls / engineering controls registries	0.125	0	0	0
Federal ERNS list	0.125	0	0	0
Lists of state- and tribal (Superfund) equivalent sites	not searched	-	-	-
Lists of state- and tribal hazardous waste facilities	1.0	0	0	0
Lists of state and tribal landfills and solid waste disposal facilities	0.75	0	0	0
Lists of state and tribal leaking storage tanks	0.5	1	0	0
Lists of state and tribal registered storage tanks	0.25	1	0	0
State and tribal institutional control / engineering control registries	0.5	0	0	0
Lists of state and tribal voluntary cleanup sites	0.5	0	0	0
Lists of state and tribal brownfield sites	0.5	0	0	0

ADDITIONAL ENVIRONMENTAL RECORDS				
Local Brownfield lists	0.5	0	0	0
Local Lists of Landfill / Solid Waste Disposal Sites	0.5	0	0	0
Local Lists of Hazardous waste / Contaminated Sites	0.5	0	0	0
Local Lists of Registered Storage Tanks	not searched	-	-	-
Local Land Records	not searched	-	-	-
Records of Emergency Release Reports	0.125	0	0	0
Other Ascertainable Records	1.0	1	0	0

EDR HIGH RISK HISTORICAL RECORDS				
EDR Exclusive Records	0.125	0	0	0
Exclusive Recovered Govt. Archives	property	1	-	-

EXECUTIVE SUMMARY

EDR RECOVERED GOVERNMENT ARCHIVES

EDR Exclusive Records	0.125	0	0	0
Exclusive Recovered Govt. Archives	property	1	-	-

*The Default Area of Concern may be adjusted by the environmental professional using experience and professional judgement. Each category may include several databases, and each database may have a different distance. A list of individual databases is provided at the back of this report.

EXECUTIVE SUMMARY

TARGET PROPERTY INFORMATION

ADDRESS

ARRINGTON MANOR
2225 COLLEGE STREET
COLUMBIA, SC 29205

COORDINATES

Latitude (North):	34.002628 - 34˚ 0′ 9.461975″
Longitude (West):	81.014643 - 81˚ 0′ 52.70691″
Elevation:	253 ft. above sea level

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records.

Site	Database(s)
ARRINGTON MANOR HIGH RISE 2225 COLLEGE ST COLUMBIA, SC	UST FINDER RELEASE UST FINDER
ARRINGTON MANOR HIGH RISE 2225 COLLEGE ST COLUMBIA, SC 29205-1075	UST Status: Abandoned Facility Id: 07323 LUST No Action Required: 01/13/1993 Facility Id: 07323 Substance: PETRO
ARRINGTON MANOR HIGH RISE 2225 COLLEGE ST COLUMBIA, SC	RGA LUST

EXECUTIVE SUMMARY

SEARCH RESULTS

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

STANDARD ENVIRONMENTAL RECORDS

Name	Address	Dist/Dir	Map ID	Page
ARRINGTON MANOR HIGH RISE UST: UST LUST: LUST	2225 COLLEGE ST	Property	▲ A2	8

ADDITIONAL ENVIRONMENTAL RECORDS

Name	Address	Dist/Dir	Map ID	Page
ARRINGTON MANOR HIGH RISE UST FINDER RELEASE: UST FINDER RELEASE UST FINDER: UST FINDER	2225 COLLEGE ST	Property	▲ A1	8

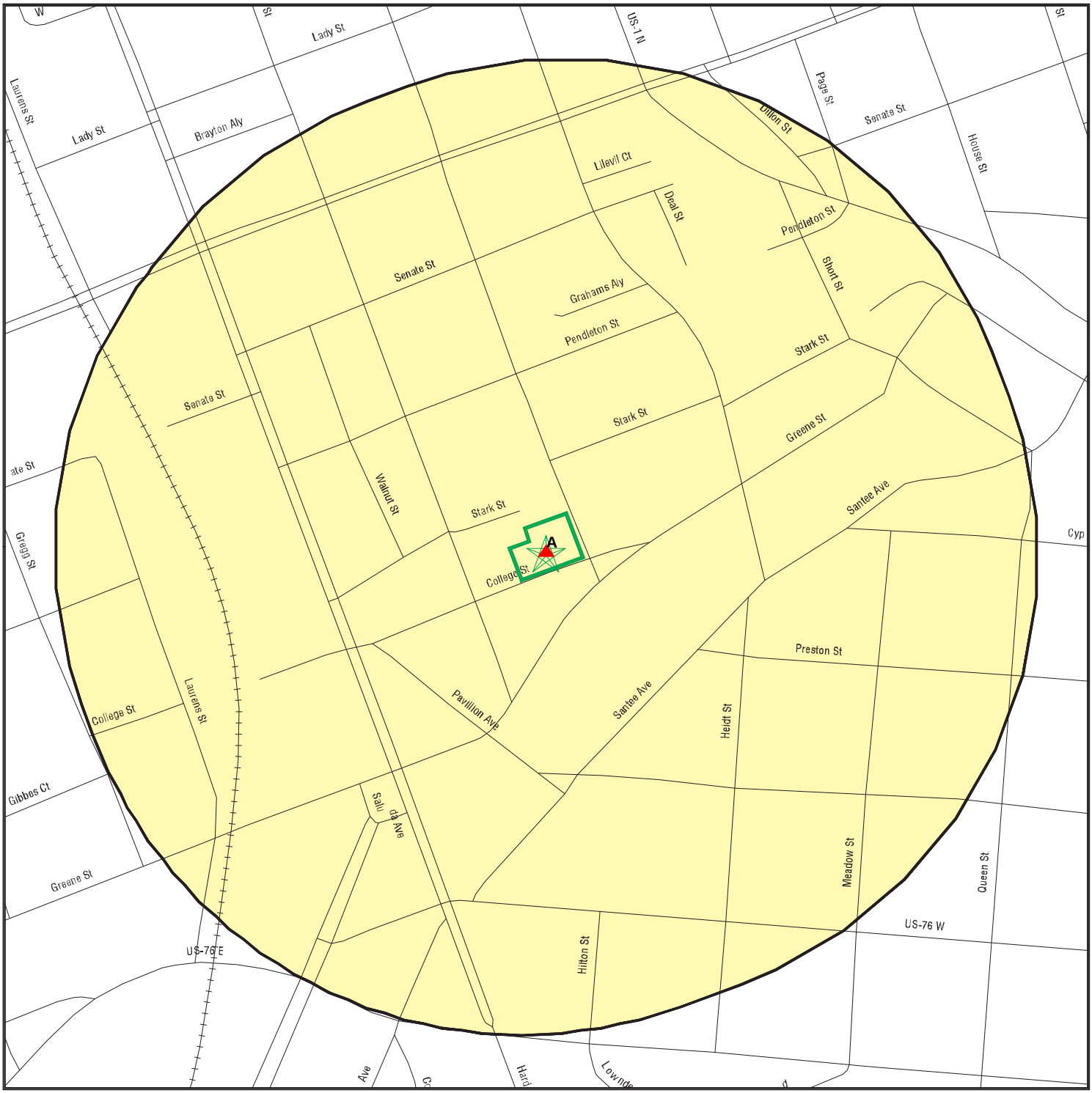
EDR HIGH RISK HISTORICAL RECORDS

Name	Address	Dist/Dir	Map ID	Page
Not Reported				

EDR RECOVERED GOVERNMENT ARCHIVES

Name	Address	Dist/Dir	Map ID	Page
ARRINGTON MANOR HIGH RISE RGA LUST: RGA LUST	2225 COLLEGE ST	Property	▲ A3	8

PRIMARY MAP - 7984093.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

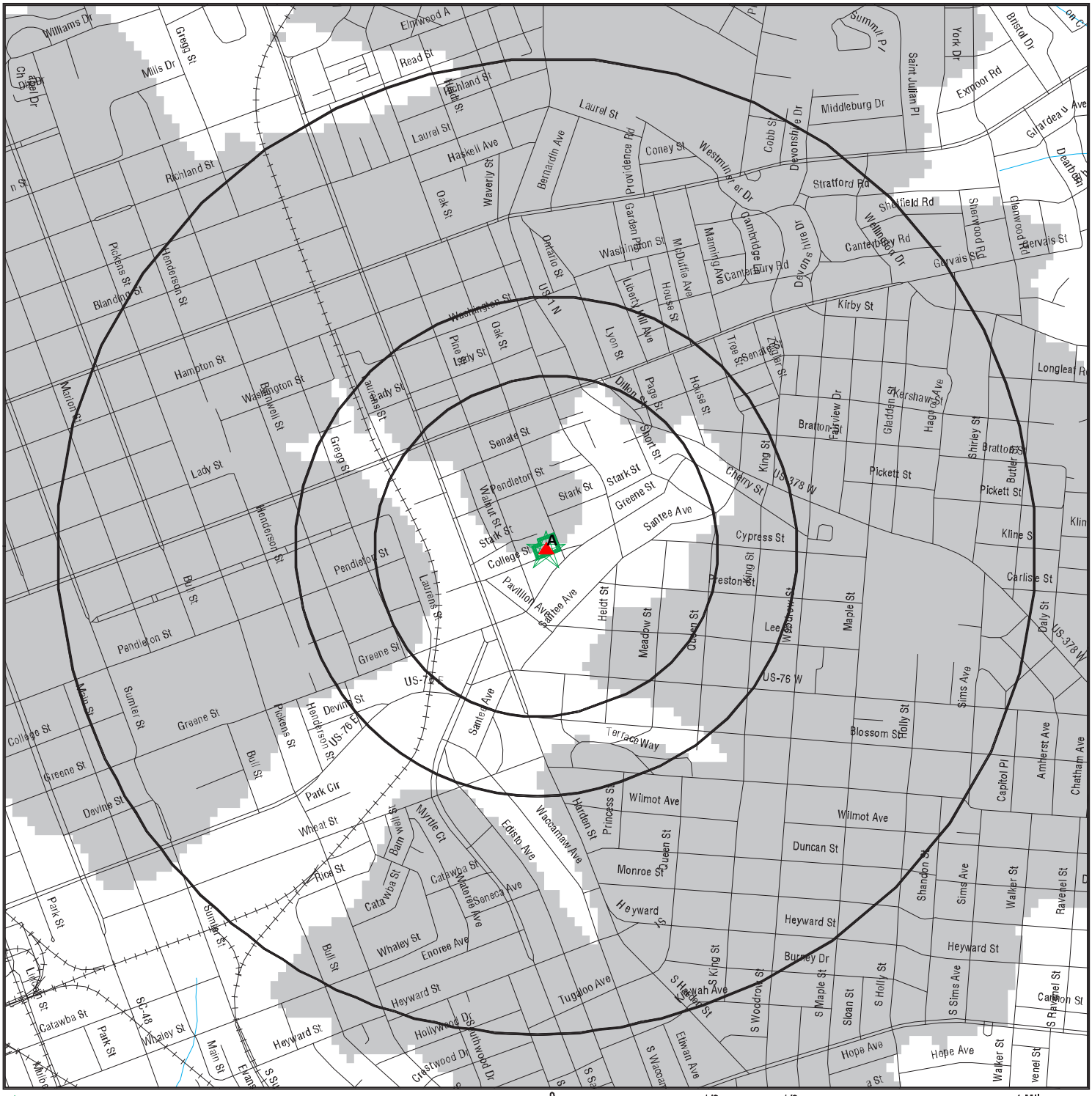
Indian Reservations BIA

Pipelines

0 300 1/3 Miles

SITE NAME: Arrington Manor ADDRESS: 2225 College Street Columbia SC 29205 LAT/LONG: 34.002628 / 81.014643	CLIENT: Dominion Environmental Group, Inc CONTACT: Brandon R Vidra INQUIRY #: 7984093.2s DATE: May 09, 2025 2:26 pm

SECONDARY MAP - 7984093.2S



Target Property

▲ Sites at elevations higher than or equal to the target property

◆ Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Indian Reservations BIA

Pipelines

▨ Upgradient Area

SITE NAME: Arrington Manor
ADDRESS: 2225 College Street
Columbia SC 29205
LAT/LONG: 34.002628 / 81.014643

CLIENT: Dominion Environmental Group, Inc
CONTACT: Brandon R Vidra
INQUIRY #: 7984093.2s
DATE: May 09, 2025 2:25 pm

LEGEND

FACILITY NAME **FACILITY ADDRESS, CITY, ST, ZIP**		EDR SITE ID NUMBER
◆ **MAP ID#**	Direction Distance Range (Distance feet / miles) Relative Elevation Feet Above Sea Level	ASTM 2600 Record Sources found in this report. Each database searched has been assigned to one or more categories. For detailed information about categorization, see the section of the report Records Searched and Currency.

Worksheet:

Comments:
Comments may be added on the online Vapor Encroachment Worksheet.

DATABASE ACRONYM: Applicable categories (A hoverbox with database description).

ARRINGTON MANOR HIGH RISE 2225 COLLEGE ST, COLUMBIA, SC,		1028700140
▲ A1	Target Property 253 ft. Above Sea Level	Other Ascertainable Records

Worksheet:

Comments: See Phase I ESA for further discussion.
Conditions:

Petroleum Hydrocarbon Chemicals of Concern: YES

ARRINGTON MANOR HIGH RISE 2225 COLLEGE ST, COLUMBIA, SC, 29205-1075		U001015209
▲ A2	Target Property 253 ft. Above Sea Level	Lists of state and tribal leaking storage tanks Lists of state and tribal registered storage tanks

Worksheet:

Comments: See Phase I ESA for further discussion.
Conditions:

Petroleum Hydrocarbon Chemicals of Concern: YES

ARRINGTON MANOR HIGH RISE 2225 COLLEGE ST, COLUMBIA, SC,		S114804078
▲ A3	Target Property 253 ft. Above Sea Level	Exclusive Recovered Govt. Archives

Worksheet:

Comments: See Phase I ESA for further discussion.
Conditions:

MAP FINDINGS

Petroleum Hydrocarbon Chemicals of Concern: YES

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
ENVIRONMENTAL RECORDS						
Federal NPL site list						
US	NPL	National Priority List	EPA	03/27/2025	04/01/2025	04/24/2025
US	Proposed NPL	Proposed National Priority List Sites	EPA	03/27/2025	04/01/2025	04/24/2025
US	NPL LIENS	Federal Superfund Liens	EPA	10/15/1991	02/02/1994	03/30/1994
Federal CERCLIS list						
US	SEMS	Superfund Enterprise Management System	EPA	03/27/2025	04/01/2025	04/24/2025
Federal RCRA CORRACTS facilities list						
US	CORRACTS	Corrective Action Report	EPA	02/17/2025	02/19/2025	03/06/2025
Federal RCRA TSD facilities list						
US	RCRA-TSDF	RCRA - Treatment, Storage and Disposal	Environmental Protection Agency	02/17/2025	02/19/2025	03/06/2025
Federal RCRA generators list						
US	RCRA-LQG	RCRA - Large Quantity Generators	Environmental Protection Agency	02/17/2025	02/19/2025	03/06/2025
US	RCRA-SQG	RCRA - Small Quantity Generators	Environmental Protection Agency	02/17/2025	02/19/2025	03/06/2025
US	RCRA-VSQG	RCRA - Very Small Quantity Generators (Formerly Conditionall	Environmental Protection Agency	02/17/2025	02/19/2025	03/06/2025
Federal institutional controls / engineering controls registries						
US	LUCIS	Land Use Control Information System	Department of the Navy	11/11/2024	11/25/2024	02/18/2025
US	US ENG CONTROLS	Engineering Controls Sites List	Environmental Protection Agency	01/29/2025	02/18/2025	04/29/2025
US	US INST CONTROLS	Institutional Controls Sites List	Environmental Protection Agency	01/29/2025	02/18/2025	04/29/2025
Federal ERNS list						
US	ERNS	Emergency Response Notification System	National Response Center, United States Coast	12/03/2024	12/11/2024	02/18/2025
State and tribal - equivalent CERCLIS						
SC	SHWS	Site Assessment Section Project List	Department of Environmental Services	03/18/2024	03/26/2024	06/12/2024
State and tribal landfill / solid waste disposal						
SC	SWF/LF	Permitted Landfills List	Department of Environmental Services	02/04/2025	03/05/2025	03/25/2025
State and tribal leaking storage tank lists						
SC	LUST	Leaking Underground Storage Tank List	Department of Environmental Services	02/10/2025	02/20/2025	03/05/2025
US	INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land	EPA Region 6	11/18/2024	01/16/2025	04/07/2025
US	INDIAN LUST R5	Leaking Underground Storage Tanks on Indian Land	EPA, Region 5	11/18/2024	01/16/2025	04/07/2025
US	INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land	Environmental Protection Agency	01/07/2025	01/16/2025	04/07/2025
US	INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land	EPA Region 8	11/18/2024	01/16/2025	04/07/2025
US	INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land	EPA Region 10	11/18/2024	01/16/2025	04/07/2025
US	INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land	EPA Region 1	11/18/2024	01/16/2025	04/07/2025
US	INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land	EPA Region 7	01/07/2025	01/16/2025	04/07/2025
US	INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land	EPA Region 4	11/18/2024	01/16/2025	04/07/2025

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
State and tribal registered storage tank lists						
SC	UST	Comprehensive Underground Storage Tanks	Department of Environmental Services	10/07/2024	10/09/2024	12/30/2024
SC	AST	Aboveground Storage Tank List	Department of Environmental Services	03/25/2004	08/04/2004	09/23/2004
US	INDIAN UST R8	Underground Storage Tanks on Indian Land	EPA Region 8	11/18/2024	01/16/2025	04/07/2025
US	INDIAN UST R1	Underground Storage Tanks on Indian Land	EPA, Region 1	11/18/2024	01/16/2025	04/07/2025
US	INDIAN UST R5	Underground Storage Tanks on Indian Land	EPA Region 5	11/18/2024	01/16/2025	04/07/2025
US	INDIAN UST R6	Underground Storage Tanks on Indian Land	EPA Region 6	11/18/2024	01/16/2025	04/07/2025
US	INDIAN UST R10	Underground Storage Tanks on Indian Land	EPA Region 10	11/18/2024	01/16/2025	04/07/2025
US	INDIAN UST R4	Underground Storage Tanks on Indian Land	EPA Region 4	11/08/2024	01/16/2025	04/07/2025
US	INDIAN UST R9	Underground Storage Tanks on Indian Land	EPA Region 9	10/15/2024	01/16/2025	04/07/2025
US	INDIAN UST R7	Underground Storage Tanks on Indian Land	EPA Region 7	01/07/2025	01/16/2025	04/07/2025
US	FEMA UST	Underground Storage Tank Listing	FEMA	04/08/2025	04/23/2025	04/24/2025
SC	GWT	GWT Management Tracking	Department of Environmental Services	04/24/2025	04/25/2025	04/28/2025
State and tribal institutional control / engineering control registries						
SC	RCR	Registry of Conditional Remedies	Department of Environmental Services	10/01/2024	12/04/2024	12/12/2024
SC	AUL	Land Use Controls	Department of Environmental Services	12/02/2024	12/04/2024	02/26/2025
State and tribal voluntary cleanup sites						
US	INDIAN VCP R7	Voluntary Cleanup Priority Lisitng	EPA, Region 7	03/20/2008	04/22/2008	05/19/2008
US	INDIAN VCP R1	Voluntary Cleanup Priority Listing	EPA, Region 1	07/27/2015	09/29/2015	02/18/2016
SC	VCP	Voluntary Cleanup Sites	Department of Environmental Services	03/11/2025	03/13/2025	03/25/2025
State and tribal Brownfields sites						
SC	BROWNFIELDS	Brownfields Sites Listing	Department of Environmental Services	01/07/2025	02/12/2025	03/10/2025
Other Records						
US	LEAD SMELTER 1	Lead Smelter Sites	Environmental Protection Agency	03/27/2025	04/01/2025	04/24/2025
US	LEAD SMELTER 2	Lead Smelter Sites	American Journal of Public Health	04/05/2001	10/27/2010	12/02/2010
US	US AIRS (AFS)	Aerometric Information Retrieval System Facility Subsystem (	EPA	10/12/2016	10/26/2016	02/03/2017
US	US AIRS MINOR	Air Facility System Data	EPA	10/12/2016	10/26/2016	02/03/2017
US	SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing	Environmental Protection Agency	07/30/2021	02/03/2023	02/10/2023
US	Delisted NPL	National Priority List Deletions	EPA	03/27/2025	04/01/2025	04/24/2025
US	SEMS-ARCHIVE	Superfund Enterprise Management System Archive	EPA	03/27/2025	04/01/2025	04/24/2025
US	RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated	Environmental Protection Agency	02/17/2025	02/19/2025	03/06/2025
US	US BROWNFIELDS	A Listing of Brownfields Sites	Environmental Protection Agency	09/09/2024	09/11/2024	12/06/2024
US	FEDLAND	Federal and Indian Lands	U.S. Geological Survey	04/02/2018	04/11/2018	11/06/2019
US	UMTRA	Uranium Mill Tailings Sites	Department of Energy	02/12/2025	02/12/2025	02/27/2025
US	ODI	Open Dump Inventory	Environmental Protection Agency	06/30/1985	08/09/2004	09/17/2004
US	US MINES	Mines Master Index File	Department of Labor, Mine Safety and Health A	02/03/2025	02/18/2025	03/20/2025
US	MINES VIOLATIONS	MSHA Violation Assessment Data	DOL, Mine Safety & Health Admi	02/19/2025	02/21/2025	03/20/2025
US	US MINES 2	Ferrous and Nonferrous Metal Mines Database Listing	USGS	05/02/2024	08/20/2024	10/09/2024
US	US MINES 3	Active Mines & Mineral Plants Database Listing	USGS	04/14/2011	06/08/2011	09/13/2011
US	PRP	Potentially Responsible Parties	EPA	02/26/2025	03/03/2025	04/07/2025
US	TRIS	Toxic Chemical Release Inventory System	EPA	12/31/2023	02/11/2025	02/18/2025
US	RADINFO	Radiation Information Database	Environmental Protection Agency	07/01/2019	07/01/2019	09/23/2019

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	BRS	Biennial Reporting System	EPA/NTIS	12/31/2023	02/19/2025	03/07/2025
US	PWS	Public Water System Data	EPA	12/17/2013	01/09/2014	10/15/2014
US	INDIAN RESERV	Indian Reservations	USGS	12/31/2014	07/14/2015	01/10/2017
US	INDIAN ODI	Report on the Status of Open Dumps on Indian Lands	Environmental Protection Agency	12/31/1998	12/03/2007	01/24/2008
US	ABANDONED MINES	Abandoned Mines	Department of Interior	12/10/2024	12/11/2024	02/18/2025
SC	AIRS	Permiited Airs Facility Listing	Department of Environmental Services	11/18/2024	11/18/2024	02/11/2025
SC	ALLSITES	Site Assessment & Remediation Public Record Database	Department of Environmental Services	12/02/2024	12/04/2024	02/26/2025
SC	PFAS ASWP	Ambient Surface Water Project PFAS Information Listing	Department of Health & Environmental Control	09/19/2024	09/20/2024	10/15/2024
SC	DRYCLEANERS	Drycleaner Database	Department of Environmental Services	04/26/2023	04/27/2023	07/18/2023
SC	PFAS DWS	Surface Water PFAS Information Listing	Department of Health & Environmental Control	09/19/2024	09/20/2024	10/15/2024
SC	GWCI	Groundwater Contamination Inventory	Department of Environmental Services	07/01/2008	11/06/2008	11/19/2008
SC	SPILLS	Spill List	Department of Environmental Services	12/09/2024	12/09/2024	12/27/2024
US	UST FINDER RELEASE	UST Finder Releases Database	Environmental Protecton Agency	06/08/2023	10/31/2023	01/18/2024
US	AQUEOUS FOAM NRC	Aqueous Foam Related Incidents Listing	Environmental Protection Agency	03/24/2025	04/02/2025	04/29/2025
US	UST FINDER	UST Finder Database	Environmental Protection Agency	06/08/2023	10/04/2023	01/18/2024
US	PFAS PROJECT	NORTHEASTERN UNIVERSITY PFAS PROJECT	Social Science Environmental Health Research	05/19/2023	04/05/2024	06/06/2024
US	PFAS NPDES	Clean Water Act Discharge Monitoring Information	Environmental Protection Agency	12/30/2024	01/02/2025	01/14/2025
US	PFAS ECHO FIRE TRAIN	Facilities in Industries that May Be Handling PFAS Listing	Environmental Protection Agency	12/30/2024	01/02/2025	01/10/2025
US	PFAS PT 139 AIRPORT	All Certified Part 139 Airports PFAS Information Listing	Environmental Protection Agency	12/30/2024	01/02/2025	01/10/2025
US	PFAS WQP	Ambient Environmental Sampling for PFAS	Environmental Protection Agency	12/13/2024	01/02/2025	01/10/2025
US	PFAS ECHO	Facilities in Industries that May Be Handling PFAS Listing	Environmental Protection Agency	12/30/2024	01/02/2025	01/10/2025
US	MINES MRDS	Mineral Resources Data System	USGS	06/04/2024	11/22/2024	02/18/2025
US	FEDERAL FACILITY	Federal Facility Site Information listing	Environmental Protection Agency	11/20/2024	12/18/2024	12/20/2024
US	PFAS ATSDR	PFAS Contamination Site Location Listing	Department of Health & Human Services	06/24/2020	03/17/2021	11/08/2022
US	PCS	Permit Compliance System	EPA, Office of Water	12/16/2016	01/06/2017	03/10/2017
US	PFAS FEDERAL SITES	Federal Sites PFAS Information	Environmental Protection Agency	03/31/2025	04/02/2025	05/05/2025
US	PFAS TSCA	PFAS Manufacture and Imports Information	Environmental Protection Agency	03/31/2025	04/02/2025	05/05/2025
US	BIOSOLIDS	ICIS-NPDES Biosolids Facility Data	Environmental Protection Agency	01/12/2025	01/14/2025	03/20/2025
US	E MANIFEST	Hazardous Waste Electronic Manifest System	Environmental Protection Agency	02/17/2025	02/19/2025	03/14/2025
US	PFAS NPL	Superfund Sites with PFAS Detections Information	Environmental Protection Agency	03/31/2025	04/02/2025	05/05/2025
US	PFAS RCRA MANIFEST	PFAS Transfers Identified In the RCRA Database Listing	Environmental Protection Agency	03/23/2025	04/02/2025	05/05/2025
US	PFAS TRIS	List of PFAS Added to the TRI	Environmental Protection Agency	03/07/2025	04/02/2025	05/05/2025
HISTORICAL USE RECORDS						
US	EDR MGP	EDR Proprietary Manufactured Gas Plants	EDR, Inc.			
US	EDR Hist Auto	EDR Exclusive Historical Auto Stations	EDR, Inc.			
US	EDR Hist Cleaner	EDR Exclusive Historical Cleaners	EDR, Inc.			
SC	RGA HWS	Recovered Government Archive State Hazardous Waste Facilitie	Department of Environmental Services		07/01/2013	01/03/2014
SC	RGA LF	Recovered Government Archive Solid Waste Facilities List	Department of Environmental Services		07/01/2013	01/15/2014
SC	RGA LUST	Recovered Government Archive Leaking Underground Storage Tan	Department of Environmental Services		07/01/2013	01/03/2014

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date

STREET AND ADDRESS INFORMATION

Appendix F:

Interview Documentation

User Questionnaire

SUBJECT PROPERTY NAME:	Arrington Manor
SUBJECT PROPERTY ADDRESS:	2225 College Street, Columbia, South Carolina 29205

QUESTION	YES	NO	UNK
1. Did a search of recorded land title records (or judicial records where appropriate) identify any environmental liens filed or recorded against the property under federal, tribal, state or local law?		X	
2. Did a search of recorded land title records (or judicial records where appropriate) identify any Activity and Use Limitations (AULs), such as engineering controls, land use restrictions or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state or local law?		X	
3. Are you aware of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?		X	
4. Are you aware of any pending, threatened, or past litigation and/or administrative proceedings relevant to hazardous substances or petroleum products, in, on or from the subject property?		X	
5. Do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?		X	
6. Do you know the past uses of the property?		X	
7. Do you know specific chemicals that are present or once were present at the property?		X	
8. Do you know of spills or other chemical releases that have taken place at the property?		X	
9. Do you know of environmental cleanups that have taken place at the property?		X	
10. Based on your knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of releases at the property?		X	
11. Is the property or has the property been used as a gasoline station, motor repair facility, commercial printing, dry cleaners, photo developing, landfill, industrial use, waste treatment or disposal facility?			X
12. Are you aware of fill dirt that has been brought onto the subject property that originated from a contaminated site or that is of an unknown origin?		X	
13. Are there currently, or to the best of your knowledge have there been previously, any registered or unregistered storage tanks (above or underground) located on the subject property?		X	
14. Are there existing or proposed stationary tanks containing explosive or fire-prone materials of 100 gallons or larger on the site or nearby the site?		X	
15. Are there monitoring wells at the subject property?		X	
16. Are you aware of any asbestos-containing materials (ACMs) at the subject property?		X	
17. Are you aware of the existence of radon mitigation systems at the subject property? If so, please provide documentation (i.e. types of systems installed, when/who installed, which units mitigated, most recent testing results, copy of Radon OM&M, etc.).		X	
18a. Does the purchase price being paid for this property reasonably reflect the fair market value of the property?			X
18b. If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?			X
19. Has a title search been performed? If yes, please attach.			X
20. What type of property transaction is being performed? i.e. sale, purchase, transfer, refinance?	NA		
21. If you are also the current landowner, in what year did you purchase the subject property?	1979		

Please return to D3G: fax 804-588-5758 or mail it to 201 Wylderose Drive, Midlothian, VA 23113

Robin Hudson	Robin Hudson	4/13/2025
PRINT NAME	**SIGNATURE**	**DATE**

Development Compliance Manager	3+
TITLE/COMPANY	**YEARS WITH PROPERTY**

Key Site Manager Questionnaire

SUBJECT PROPERTY NAME:	**Arrington Manor**
SUBJECT PROPERTY ADDRESS:	**2225 College St, Columbia, SC 29205**

QUESTION	YES	NO	UNK
1. Did a search of recorded land title records (or judicial records where appropriate) identify any environmental liens filed or recorded against the property under federal, tribal, state or local law?		X	
2. Did a search of recorded land title records (or judicial records where appropriate) identify any Activity and Use Limitations (AULs), such as engineering controls, land use restrictions or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state or local law?		X	
3. Are you aware of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?		X	
4. Are you aware of any pending, threatened, or past litigation and/or administrative proceedings relevant to hazardous substances or petroleum products, in, on or from the subject property?		X	
5. Do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?		X	
6. Do you know the past uses of the property?		X	
7. Do you know specific chemicals that are present or once were present at the property?		X	
8. Do you know of spills or other chemical releases that have taken place at the property?		X	
9. Do you know of environmental cleanups that have taken place at the property?		X	
10. Based on your knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of releases at the property?		X	
11. Is the property or has the property been used as a gasoline station, motor repair facility, commercial printing, dry cleaners, photo developing, landfill, industrial use, waste treatment or disposal facility?			X
12. Are you aware of fill dirt that has been brought onto the subject property that originated from a contaminated site or that is of an unknown origin?		X	
13. Are there currently, or to the best of your knowledge have there been previously, any registered or unregistered storage tanks (above or underground) located on the subject property?		X	
14. Are there existing or proposed stationary tanks containing explosive or fire-prone materials of 100 gallons or larger on the site or nearby the site?		X	
15. Are there monitoring wells at the subject property?		X	
16. Is the subject property served by a private well and or a private septic system?		X	
17. Are you aware of any asbestos-containing materials (ACMs) at the subject property?		X	
18. Are you aware of the existence of radon mitigation systems at the subject property? If so, please provide documentation (i.e. types of systems installed, when/who installed, which units mitigated, most recent testing results, copy of Radon OM&M, etc.).		X	

Please return to D3G: fax 804-588-5758 or mail it to 201 Wylderose Drive, Midlothian, Virginia 23113

Robin Hudson	Robin Hudson	4/13/2025
PRINT NAME	**SIGNATURE**	**DATE**

Development Compliance Manager, Columbia Housing	23+
TITLE/COMPANY	**YEARS WITH PROPERTY**

Brandon Vidra

From: Robin Hudson <rhudson@columbiahousingsc.org>
Sent: Tuesday, May 13, 2025 8:24 AM
To: Brandon Vidra; Sarah Jones-Anderson; Georgia Burrichter
Subject: Re: [EXTERNAL]RE: Arrington Manor ESA Inspection

> **Caution:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

No changes

Thank you

Robin Hudson
Development Compliance Manager
803.254.3886 ext 216
Cell: 803-394-0067
Columbia Housing CHCares
ColumbiaHousingSC.org
1917 Harden Street, Columbia, South Carolina 29204
CHAD Columbia Housing & Development
SCAHI South Carolina Affordable Housing Initiatives, Inc.
Cayce Housing
HCCP HOUSING CREDIT CERTIFIED PROFESSIONAL NATIONAL ASSOCIATION OF HOME BUILDERS

From: Brandon Vidra <b.vidra@d3g.com>
Sent: Tuesday, May 13, 2025 7:56 AM
To: Sarah Jones-Anderson <sarahj@brinshore.com>; Georgia Burrichter <g.burrichter@d3g.com>; Robin Hudson <rhudson@columbiahousingsc.org>
Subject: [EXTERNAL]RE: Arrington Manor ESA Inspection

> CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Thanks so much Sarah!

DOMINION DUE DILIGENCE

Brandon Vidra, EP
(he, him, his)
Environmental Team Leader
O: (804) 577-7409
E: b.vidra@d3g.com
A: 201 Wylderose Drive
Midlothian, Va. 23113

People, Innovation, Passion, Excellence

Notice: D3G will be closed Friday May 23rd and Monday May 26th in recognition of Memorial Day Weekend.

From: Sarah Jones-Anderson <sarahj@brinshore.com>
Sent: Monday, May 12, 2025 5:04 PM
To: Brandon Vidra <b.vidra@d3g.com>; Georgia Burrichter <g.burrichter@d3g.com>; rhudson@columbiahousingsc.org
Subject: Re: Arrington Manor ESA Inspection

> **Caution:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Brandon, Received. I've also reached out to Robin to confirm dates. I will work on the questionnaires.

Sarah Jones-Anderson
Brinshore Development
919-271-2014

From: Brandon Vidra <b.vidra@d3g.com>
Sent: Monday, May 12, 2025 4:49:29 PM
To: Georgia Burrichter <g.burrichter@d3g.com>; rhudson@columbiahousingsc.org <rhudson@columbiahousingsc.org>; Sarah Jones-Anderson <sarahj@brinshore.com>
Subject: RE: Arrington Manor ESA Inspection

Good afternoon Robin and Sarah,

I wanted to follow up on the below request for the site visit being proposed **Wednesday, May 14th or Thursday May 15th**. Wednesday would be preferred in order to be able to complete the report by Friday, May 12th. Please contact myself or Georgia via email or cell as soon as you can tomorrow to confirm the date/time of the site visit. Confirming the site visit is crucial to the timeline of the project.

In addition, I wanted to send along the previously completed questionnaires in hopes that they can be re-signed and dated to be used in this ESA, assuming that the information on them is still correct. Please let me know if you have any questions regarding the site visit or questionnaires.

Thanks,

DOMINION DUE DILIGENCE

Brandon Vidra, EP
(he, him, his)
Environmental Team Leader
O: (804) 577-7409
E: b.vidra@d3g.com
A: 201 Wylderose Drive
Midlothian, Va. 23113

People, Innovation, Passion, Excellence

Notice: D3G will be closed Friday May 23rd and Monday May 26th in recognition of Memorial Day Weekend.

From: Georgia Burrichter <g.burrichter@d3g.com>
Sent: Monday, May 12, 2025 8:42 AM
To: rhudson@columbiahousingsc.org
Cc: Brandon Vidra <b.vidra@d3g.com>
Subject: Re: Arrington Manor ESA Inspection

Good morning Robin,

I am following up on this request. Please reach out if you have any questions or concerns.

Thank you,
Georgia

Georgia Burrichter
Environmental Technician

People, Innovation, Passion, Excellence

Office: (804)441-4352

From: Georgia Burrichter
Sent: Thursday, May 8, 2025 7:23 PM
To: rhudson@columbiahousingsc.org <rhudson@columbiahousingsc.org>
Subject: Arrington Manor ESA Inspection

Good afternoon Robin,

My name is Georgia Burrichter with Dominion Due Diligence Group (D3G). We have been engaged to complete a Phase I environmental site assessment (ESA) for Arrington Manor in Columbia, South Carolina. Our inspector is proposing to visit **Wednesday, May 14th or Thursday, May 15th**. Wednesday would be ideal to accommodate the timeline for this project. Please let me know if this day works. Our inspector will need access to all common areas, maintenance/mechanical areas, and exterior portions of the property. In addition, he will need access to **at least 6 residential dwelling units**. Additionally, could you provide the contact information for the individual that our inspector will be meeting with? This will help us communicate if any travel issues arise.

Please do not hesitate to reach out if you have any questions!

Thank you,
Georgia

Fire Contact:	Fire official	**From: Margie Owusu**	
Municipality:	Richland County	**Department:**	Fire
Phone:	804-665-2902	**Fax:**	E-mail:m.owusu@d3g.com
Pages:	2	**Date:**	05/13/2025

☒ Urgent ☐ For Review ☐ Please Comment ☒ Please Reply ☐ Please Recycle

To meet the financing requirements of the loan program, Dominion Due Diligence Group is requesting your assistance on behalf of:

Columbia Housing
1917 Harden Street
Columbia, SC 29204

This information is required for the HUD re-financing report for the following property:

Arrington Manor
2225 College Street
Columbia, SC 29205

Please email completed letter to my attention at m.owusu@d3g.com

If unable to send via email, please fax to me at 804-588-5758 before mailing a hard copy to my attention.

Thank you for your time,

Margie Owusu
Commercial Real Estate Compliance Coordinator
P: 804-665-2902 F: 804-588-5758 E: m.owusu@d3g.com

[2025-001084] **Initials:** MO

COMPLIANCE REQUEST:
Fire and Code Enforcement Verifications

Date: 05/13/2025

Completed By: Name & Title: _____
Department: _____
Direct Contact Info: _____

Re: Property: Arrington Manor
Address: 2225 College Street
City, State & Zip: Columbia, SC 29205

Requestor: Columbia Housing
1917 Harden Street
Columbia, SC 29204

Dominion Due Diligence Group is requesting your assistance on behalf of the above referenced requestor. Please confirm whether the above noted subject property has any known outstanding fire code violations.

1. To the best of our knowledge, the property is free of any applicable code violations.

Yes No Reason: _____

2. **Last Inspection Date:** _____

If available, attach the inspection report. Please list the frequency in which inspections are required. If no inspections are required, please list municipality's policy:

_____

3. Are any permits available for former or current underground storage tanks?

Yes If yes, please attach all related information.

No If no, can you provide a department to contact for additional information.

4. Has the fire department responded to any hazmat spills at the property?

Yes If yes, please attach all related information.

No If no, can you provide a department to contact for additional information.

5. Are there any current or recent (within the past year) permits issued for thermal/explosive hazards (aboveground storage tanks >100 gallons) located within a one (1) mile radius of the subject property?

Yes If yes, please attach a copy of all available information. No

6. Has your jurisdiction adopted the 2017 edition (or newer) of the National Fire Protection Association (NFPA) 58 Liquefied Petroleum Gas Code?

Yes No

_____ _____

Fire Official Signature Date

DOMINION
Due Diligence Group

To: Richland County
Attn:
Date: 05/13/2025
Re: Project: Arrington Manor
Address: 2225 College Street Columbia, SC 29205
PIN: R11409-02-19; R11409-02-18.

As part of the real estate screening that we are performing at the above-listed property, I am requesting assistance to locate any environmental-related permits and information associated with the property.

Please answer the following questions:

Is any information for former or current wells or septic tanks available for the property?

☐ Yes If yes, please attach all related information

☐ No

If the answer to the above question is No, is the property located on City Sewer?

☐ Yes

☐ No

Are there any known Regional Health issues associated with this property?

☐ Yes If yes, please attach all related information

☐ No

Comments:

Signature

Printed Name, Title

Thank you for your time and effort in completing the above request for information. If any more information is needed from our company regarding the screening that we are performing on the above property, please contact me at **(804) 358-2020**. I will follow up directly due to the timeliness of need for this information. Please fax this form and any additional information to me at **(804) 588-5758**.

Thanks for your time,

Margie Owusu, Commercial Real Estate Compliance Coordinator
m.owusu@d3g.com

Appendix G:

Special Contractual Conditions Between User and Environmental Professional

There are no special contractual conditions between the User and Environmental Professional:

D3G has no financial interest or family relationship with the officers, directors, stockholders or partners of the Borrower, the general contractor, any subcontractors, the buyer or seller of the proposed property or engage in any business that might present a conflict of interest.

D3G is employed under contract for this specific assignment and has no other side deals, agreements, or financial considerations with the Lender or others in connection with this transaction.

Appendix H:

Qualifications of the Environmental Professionals

BRANDON R. VIDRA, EP

Housing Preservation Services – Environmental Team Leader
b.vidra@d3g.com / 804-577-7409

EDUCATION

James Madison University — B.S. in Integrated Science and Technology

CERTIFICATIONS/REGISTRATIONS/TRAINING

- Principles of Phase I Environmental Site Assessments - ASTM E 1527
- Principles of Vapor Encroachment Screenings – ASTM E 2600
- HUD Multi-Family Accelerated Processing (MAP) Training
- HUD Office of Residential Care Facilities (ORCF) Training
- HUD Rental Assistance Demonstration (RAD) Training
- HUD Web-based Instructional System for Environmental Reviews (WISER)
- OSHA/AHERA Asbestos Awareness Training
- 24-Hour Asbestos Inspector Initial Training Course
- HUD Lead-Based Paint Visual Assessment Training Course
- 24-Hour Lead-Based Paint Inspector Initial Training Course

SUMMARY OF EXPERIENCE

Brandon Vidra has numerous years of training and experience with regards to environmental issues, including the preparation of over several hundred Phase 1 Environmental Site Assessments and HUD Environmental Reviews, throughout the United States. He also has extensive knowledge of the ASTM E 1527 Phase I Environmental Site Assessment regulations, as well as the EPA 40 CFR Part 312 Standards and Practices for All Appropriate Inquiries regulations. Mr. Vidra qualifies as an Environmental Professional as defined under ASTM E1527-21 Section 4.3 and Appendix X2 with over 5 years of experience performing investigations of surface and subsurface environmental conditions. As Environmental Team Leader and an Environmental Professional for Dominion Due Diligence Group, Mr. Vidra's responsibilities include coordinating, conducting, preparing, and reviewing Phase I Environmental Site Assessments (ASTM, HUD, HUD RAD, SAC, and State Housing Tax Credit Programs), as well as Environmental Reviews throughout the United States, consisting of compliance evaluations with the National Environmental Policy Act (NEPA) and other project-specific guidance requirements (RAD, SAC, MAP, LEAN, HOME, HTF, etc.). Additionally, Mr. Vidra is responsible for training, performance, and management of Housing Preservation Services (HPS) Environmental Technicians, client contact, and comprehensive report reviewing.

SAMPLE PROJECTS

HUD RAD

- Proposed Taft Homes *(Peoria, IL)*
- Woodhill Homes – Phase I *(Cleveland, OH)*
- Lincoln Road Apartments *(Washington D.C.)*
- Proposed Cedar Gardens *(North Little Rock, AR)*

HUD SAC

- River View Tower *(New Albany, IN)*
- Orange Avenue Apartments *(Tallahassee, FL)*
- Columbia Apartments *(Columbia, SC)*

STATE HOUSING TAX CREDITS

- Cathedral Place Apartments *(Mobile AL) AHFA*
- Armory Terrace Homes *(Waukegan, IL) IHDA*
- Woodhill Homes Phase I *(Cleveland, OH) OHFA*

HUD MAP 221(d)(4) NC

- Proposed Piney Creek Apartments *(Athens, AL)*
- Proposed Exchange at 1105 *(LaGrange, GA)*
- Proposed Duhan Road *(Lafayette, LA)*

HUD MAP 221(d)(4) SR

- Murraygate Village Apartments *(Alexandria, VA)*
- Canton Manor, Royal Estates, and Madison Heights *(Canton, MS)*
- The Homes at Pine Crossing *(North Little Rock, AR)*

ROB HAZELTON, LEED AP

Chief Executive Officer

r.hazelton@d3g.com / 804-513-6354

EDUCATION

Bucknell University – Bachelor of Arts

PROFESSIONAL MEMBERSHIPS

- Eastern Lenders Association (ELA)
- Federal Home Loan Bank (FHLB) - Atlanta Affordable Housing Advisory Council
- Greater Richmond Association for Commercial Real Estate (GRACRE)
- Housing Advisory Group (HAG)
- Institute for Responsible Housing Preservation (IRHP)
- Midwest Lenders Association (MLA)
- Mortgage Bankers Association (MBA)
- Mortgage Lenders Association (MLA)
- National Association of Home Builders (NAHB)
- National Housing and Rehabilitation Association (NH&RA)
- National Leased Housing Association (NLHA *Board of Directors)
- Southeastern Mortgage Advisory Council (SMAC)
- US Green Building Council (USGBC)
- Various State Affordable Housing Organizations (CO, GA, TX, VA)
- Western Mortgagee Advisory Council (WMAC)

SUMMARY OF EXPERIENCE

Mr. Hazelton has accumulated more than 25 years of real estate due diligence inspection experience, focusing primarily on environmental issues, building code compliance, construction engineering, and cost estimation services. He founded Dominion Due Diligence Group (D3G) over two (2) decades ago with a focus on affordable housing solutions. Rob has worked in all 50 states for the preservation of multifamily and senior housing under the LIHTC Qualified Allocation Plans (QAP). He has been involved with the HUD Multifamily Accelerated Process (MAP) Guide since inception and is proficient in the FHA-HUD multifamily mortgage insurance markets. The last five (5) years he has worked closely with HUD to define and leverage energy efficiency in the subsidized housing portfolio. Rob frequently provides technical services for HUD's many pilot and demonstration programs, and is currently working with the LIHTC pilot, the Rental Assistance Demonstration (RAD), Moving to Work (MTW), self- managed Energy Performance Contracting (EPC), 24 CFR Part 50 HEROS, and the CNA e-Tool.

Mr. Hazelton has worked with over 250 public housing agencies encompassing greater than 100,000 units of conversion with the HUD Rental Assistance Demonstration (RAD) program; including the large housing authorities of New York City, San Francisco, El Paso, Baltimore, Nashville, Greensboro, Jacksonville, Charlotte, Milwaukee, Birmingham and Richmond. Rob is a common speaker at housing industry conferences throughout the nation, presenting both technical subject matter topics, as well as general housing policy.

ROB HAZELTON, LEED AP

Chief Executive Officer

r.hazelton@d3g.com / 804-513-6354

CERTIFICATIONS/REGISTRATIONS/TRAINING - RECEIVED

Mr. Hazelton has received extensive industry-related certifications, registrations and training in the past decade, including:

- USGBC Leadership in Energy and Environmental Design Accredited Professional (LEED AP)
- Member of the Association of Energy Engineers (AEE)
- EPA AAI Accredited "Environmental Professional" (EP)
- Practices of Building Design and Engineering
- HUD Multifamily Accelerated Processing (MAP) Due Diligence Training
- HUD A/E Review and Cost Estimation Training
- HUD Green Building and ARRA Green Retrofit Training
- ICC – HUD Fair Housing Act Accessibility Workshop

TRAINING - GIVEN

Mr. Hazelton has been asked to participate in numerous panel discussions at industry conferences, give training seminars for clients and interpret HUD MAP Guidebook regulations. The following are training events in which Mr. Hazelton has been asked to participate within the last five years:

- HUD MAP Lender Annual Conference (ELA, SWAC, SMAC, MWLC, WMAC)
- HUD Regional Office Technical Training (Detroit and Richmond HUD Offices)
- HUD Rental Assistance Demonstration Training
- MAP Lender Annual Training Events (Love Funding, Wells Fargo, Berkadia, Prudential, Walker & Dunlop)
- Affordable Housing Industry Events (Novogradac, CohnReznick, IRHP, NH&RA, NLHA)
- State Finance Housing Agencies/LIHTC (Alabama, Colorado, Kentucky, Mississippi, Ohio & Virginia)

Training topics have included the following:

- Rental Assistance Demonstration (RAD)
- Updates to the HUD Multifamily Accelerated Process (MAP)
- Section 202 Elderly Housing - Project Rental Assistance Contract (PRAC)
- HUD Section 221(d4) New Construction and Substantial Rehabilitation Processing
- HUD Energy, Green MIP, and Climate Resiliency
- Green Retrofit/Green/Integrated Property Condition Assessments
- Accessibility (FHA, UFAS and ADA Compliance)
- Construction Cost Containment and Innovative Practices in Construction

Appendix I:

Certificate of Liability Insurance

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 8/30/2024

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER
Riggs, Counselman, Michaels & Downes, Inc.
200 Westgate Parkway, Suite 204
Glen Allen VA 23233

CONTACT NAME: Marion Caldwell
PHONE (A/C, No, Ext): 804-237-5921 FAX (A/C, No): 804-237-5901
E-MAIL ADDRESS: mcaldwell@rcmd.com

INSURED DOMIENV-01
Dominion Environmental Group, Inc dba Dominion Due Diligence Group
201 Wylderose Drive
Midlothian VA 23113-6845

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : Cincinnati Casualty Company	28665
INSURER B : Cincinnati Indemnity Company	23280
INSURER C : Nautilus Insurance Company	17370
INSURER D : At-Bay Specialty Insurance Company	19607
INSURER E :	
INSURER F :	

COVERAGES **CERTIFICATE NUMBER:** 444669089 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
C	X **COMMERCIAL GENERAL LIABILITY**			ECP204455010	9/1/2024	9/1/2025	EACH OCCURRENCE	$ 5,000,000
	CLAIMS-MADE X OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	$ 100,000
							MED EXP (Any one person)	$ 5,000
	X Proj Agg: $2M						PERSONAL & ADV INJURY	$ 5,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	$ 5,000,000
	X POLICY X PRO-JECT LOC						PRODUCTS - COMP/OP AGG	$ 5,000,000
	OTHER:							$
A	**AUTOMOBILE LIABILITY**			EBA0627123	9/1/2024	9/1/2025	COMBINED SINGLE LIMIT (Ea accident)	$ 1,000,000
	ANY AUTO						BODILY INJURY (Per person)	$
	OWNED AUTOS ONLY / SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	X HIRED AUTOS ONLY / X NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	$
								$
A	**UMBRELLA LIAB** X OCCUR			ENP0627173	9/1/2024	9/1/2025	EACH OCCURRENCE	$ 3,000,000
	X **EXCESS LIAB** CLAIMS-MADE						AGGREGATE	$ 3,000,000
	DED RETENTION $							$
B	**WORKERS COMPENSATION AND EMPLOYERS' LIABILITY** Y / N	N / A		EWC062712502	9/1/2024	9/1/2025	X PER STATUTE OTH-ER	
	ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? **(Mandatory in NH)**						E.L. EACH ACCIDENT	$ 1,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$ 1,000,000
							E.L. DISEASE - POLICY LIMIT	$ 1,000,000
D	Cyber Risk (Claims-Made)			AB671246903	9/1/2024	9/1/2025	Each Claim/Agg	$1M/$1M
C	Prof Liab (Claims Made)			ECP204455010	9/1/2024	9/1/2025	Each Claim/Agg	$5M/$5M
C	Contractors Poll (Claims Made)			ECP204455010	9/1/2024	9/1/2025	Each Claim/agg	$5M/$5M

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
General proof of coverage

CERTIFICATE HOLDER

Dominion Environmental Group
dba Dominion Due Diligence Group
201 Wylderose Drive
Midlothian VA 23113

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Appendix J:

Limited Asbestos Survey Report

December 7, 2023

Columbia Housing
Attn: Ms. Lucinda Herrera
1917 Harden Street
Columbia, South Carolina 29204
cherrera@columbiahousingsc.org

RE: Arrington Manor
2225 College Street – Columbia, South Carolina
D3G Project #2023-0878
Limited Asbestos Survey Report

Dear Ms. Herrera,

Dominion Due Diligence Group (D3G) is pleased to provide the results of the limited asbestos survey conducted at the Arrington Manor located 2225 College Street in Columbia, Richland County, South Carolina (subject property). The subject property consists of one (1) six-story age-restricted apartment structure constructed in 1971. The subject property structure contains a total of fifty-eight (58) residential dwelling units. D3G was contracted to perform a limited asbestos survey at the subject property in order to comply with HUD requirements for a project being submitted through the HUD Special Applications Center (SAC) and applying for South Carolina State Housing Finance and Development Authority (SCSHFDA) tax credits. The structure is proposed for significant rehabilitation; however, as it is currently occupied, only limited sampling was able to be conducted at this time. Therefore, additional sampling and inspection of 100% of the units will be required prior to renovation activities to comply with EPA and State of South Carolina asbestos regulations.

Ms. Kathryn Hubicki, a State of South Carolina licensed Asbestos Building Inspector (license #BI-01079) with One Source Environmental, LLC (OSE), conducted a limited asbestos survey at the subject property on November 15, 2023 on behalf of D3G. The survey was conducted in accordance with practices described within the ASTM Standard Practice for Comprehensive Asbestos Building Surveys Designation: E 2356-18 (ASTM E 2356-18) for Baseline Surveys. However, the inspection was limited to accessible areas of the facility and is not considered to be in full compliance with pre-renovation standards (40 CFR 61 Subpart M) or State of South Carolina regulations. The structure is proposed for significant rehabilitation; however, as it is currently occupied, only limited sampling was able to be conducted at this time. Therefore, additional sampling and inspection of 100% of the units will be required prior to renovation activities to comply with EPA and State of South Carolina asbestos regulations. All suspect ACMs were identified during the course of the inspection. Sampled materials included drywall, joint compound, ceiling tiles and textured ceiling materials. An asbestos-

containing material is defined as containing greater than 1% asbestos. Samples were analyzed via Polarized Light Microscopy (PLM). In addition, six (6) samples of joint compound and five (5) samples of textured ceiling materials were reanalyzed via the EPA Point Count method to confirm the asbestos content of those materials. The ASTM E 2356-18 standard and the State of South Carolina require additional analysis of non-friable organically bound (NOB) materials (i.e. floor tiles, covebase, mastics, roofing materials, caulks) reported as non-detect using visual estimation via Transmission Electron Microscopy (TEM) to confirm the asbestos content of those materials. However, NOB materials were not sampled and were presumed to contain asbestos. The following table itemizes the sampled materials and their respective asbestos concentrations:

SAMPLE NUMBER	SAMPLED MATERIAL	LOCATION	% ASBESTOS
1A	Drywall	6th FL Cable CL	None Detected
1B	Drywall	501 Hall CL	None Detected
1C	Drywall	507 Entry Ceiling	None Detected
2A	Joint Compound	6th FL Cable CL	0.3% Chrysotile*
2B	Joint Compound	501 Hall CL	0.3% Chrysotile*
2C	Joint Compound	507 Entry Ceiling	< 0.3% Chrysotile*
2D	Joint Compound	410 Bedroom CL	0.3% Chrysotile*
2E	Joint Compound	307 Bath CL	0.3% Chrysotile*
2F	Joint Compound	204 Bedroom 1 CL	0.3% Chrysotile*
2G	Joint Compound	103 Hall	None Detected
3A	2'x4' Ceiling Tile	6th FL Hall	None Detected
3B	2'x4' Ceiling Tile	3rd FL Hall	None Detected
3C	2'x4' Ceiling Tile	1st FL Hall	None Detected
6A	Popcorn Ceiling Texture	6th FL Hall	1.5% Chrysotile*
6B	Popcorn Ceiling Texture	6th Storage CL Middle	1.3% Chrysotile*
6C	Popcorn Ceiling Texture	501 Hall CL	1.3% Chrysotile*
6D	Popcorn Ceiling Texture	507 Entry	None Detected
6E	Popcorn Ceiling Texture	410 Living Room	0.5% Chrysotile*
6F	Popcorn Ceiling Texture	204 Bedroom 1	0.5% Chrysotile*
6G	Popcorn Ceiling Texture	1st FL Maint Shop	None Detected

* = analyzed via point count method

The identified asbestos-containing materials are denoted in bold type. In addition, the following materials were observed but not sampled and are considered to be suspect asbestos-containing materials until appropriate sampling proves otherwise: vinyl flooring and covebase materials and associated mastics, ceramic tile and grout, undersink coating materials, transite panels, mirror mastics, caulking materials and roofing materials. The textured ceiling materials are considered to be a non-friable (not able to be crushed via hand pressure) material in its current intact condition and is not considered to present a concern to residents or maintenance staff. The remainder of the presumed ACMs are considered to be non-friable and all materials were observed to be in good condition at the time of the site inspection, with the exception of the textured ceiling materials located in the entry of unit 507 which were observed to be damaged. It should be noted that a comprehensive asbestos inspection was not performed of the facility. Therefore, additional sampling may be warranted prior to future renovation activities. This asbestos survey was

nondestructive in nature, therefore, potential ACMs that are concealed inside walls, roofs, and inaccessible areas, were not sampled.

Prior to renovation activities, a comprehensive asbestos inspection which includes sampling of all materials to be impacted by renovation activities and an inspection of 100% of the units should be conducted at the subject property by an appropriately licensed asbestos inspector in accordance with State of South Carolina asbestos regulations. Any ACMs which are to be impacted during the renovation activities should be removed by a licensed asbestos abatement contractor in accordance with applicable regulations. Any remaining ACMs and/or PACMs should be managed under a site-specific Operations and Maintenance (O&M) Program.

The asbestos analytical results, inspector notes and inspector credentials are attached to this letter.

The foregoing report has been prepared in accordance with the contract between Client and D3G and under no alternative direction unless expressly stated otherwise in the report; the foregoing report is subject to the qualifications, limitations, and exclusions identified therein and in this section.

Applicable local, state, and federal guidelines, regulations, standards, and codes related to the services D3G performed in preparation of this report are subject to reasonable interpretation by Client, D3G, and governmental or regulatory inspectors and agencies. This report does not constitute a representation or warranty that the opinions and interpretations contained therein are the only ones available, and D3G shall not be liable for any contrary opinions, interpretations, or recommendations of such governmental or regulatory inspectors and agencies. If Client requests a more specific or definite opinion or interpretation related to a specific guideline, regulation, standard, or code provision, D3G may consider supplying the same by additional agreement and compensation.

The opinions, conclusions, and findings contained in this report are valid for a period of 180 days, and modifications or services the Client requests after this time may be provided under an additional agreement and compensation.

This report was performed for Client's sole benefit and use. No other party may claim any rights as a third-party beneficiary and no third-party has the right to claim reliance upon any information or documents provided by D3G. Client shall not distribute documents provided by D3G unless authorized in writing by D3G.

If you have further questions upon review of this letter, please contact me at (804) 237-1882.

Sincerely,

Kimberly L. Dingledine
Hazardous Materials Manager/Environmental Professional

AmeriSci Richmond
13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: 8047631200 FAX: 8047631800

November 27, 2023

Dominion Due Diligence Group
Attn: Kim Dingledine
201 Wylderose Drive
Midlothian, VA 23113

RE: Dominion Due Diligence Group
Job Number 123111667
P.O. #2023-0878
2023-0878; Arrington Manor; 2225 College Street - Columbia, SC

Dear Kim Dingledine:

Enclosed are the results for PLM asbestos analysis of the following Dominion Due Diligence Group samples received at AmeriSci on Monday, November 20, 2023, for a 3 day turnaround:

1A, 1B, 1C, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 3A, 3B, 3C, 6A, 6B, 6C, 6D, 6E, 6F, 6G

The 20 samples contained in zip lock bag were shipped to AmeriSci via Fed Ex 7741 4952 8950 TP 900. These samples were prepared and analyzed according to EPA PLM Method (EPA 600/R-93/116 Section 2.2). The required analytical information, analysis results, analyst signature and laboratory identification are contained in the PLM Bulk Asbestos Report. If TEM analysis was requested for selected samples the gravimetric reduction data (by Sec 2.3) and TEM Asbestos % (by Sec 2.5) are included in Table 1 along with a summary of Asbestos % by PLM for all samples analyzed.

This report relates ONLY to the sample analysis expressed as % asbestos. AmeriSci assumes no responsibility for customer supplied data such as “sample type”, "location", or “area sampled”. This report must not be used to claim product endorsement by AmeriSci, NVLAP or any agency of the U. S. Government. The National Institute of Standards and Technology accreditation requirements mandate that this report must not be reproduced, except in full, without the written approval of the laboratory. This report may contain specific data not covered by NVLAP or ELAP accreditations, if so identified in relevant footnotes.

AmeriSci appreciates this opportunity to serve your organization. Please contact us for any further assistance or with any questions.

Sincerely,

Glenn F. Massey

QA Manager | Authorized Signatory

AmeriSci Richmond
13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800

PLM Bulk Asbestos Report

Dominion Due Diligence Group
Attn: Kim Dingledine
201 Wylderose Drive

Midlothian, VA 23113

Date Received 11/20/23
Date Examined 11/27/23

AmeriSci Job # 123111667
P.O. #

RE: 2023-0878; Arrington Manor; 2225 College Street - Columbia, SC

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
1A	123111667-01	***No***	NAD (by CVES) by David W. Ralbovsky on 11/27/23
Location: Drywall And Joint Compound; 6th FL Cable CL			
Analyst Description: Brown/White, Heterogeneous, Fibrous, Drywall			
Asbestos Types:			
Other Material: Cellulose 7.0%, Non-fibrous 93%			
1B	123111667-02	***No***	NAD (by CVES) by David W. Ralbovsky on 11/27/23
Location: Drywall And Joint Compound; 501 Hall CL			
Analyst Description: White, Heterogeneous, Non-Fibrous, Drywall			
Asbestos Types:			
Other Material: Cellulose 3.0%, Non-fibrous 97%			
1C	123111667-03	***No***	NAD (by CVES) by David W. Ralbovsky on 11/27/23
Location: Drywall And Joint Compound; 507 Entry Ceiling			
Analyst Description: White, Heterogeneous, Fibrous, Drywall			
Asbestos Types:			
Other Material: Cellulose 4.0%, Non-fibrous 96%			
2A	123111667-04	***Yes***	Trace (<1.0 %) (by CVES) by David W. Ralbovsky on 11/27/23
Location: Drywall And Joint Compound; 6th FL Cable CL			
Analyst Description: White, Heterogeneous, Non-Fibrous, Cementitious, Joint Compound			
Asbestos Types: Chrysotile <1. %			
Other Material: Non-fibrous 100%			
2B	123111667-05	***Yes***	Trace (<1.0 %) (by CVES) by David W. Ralbovsky on 11/27/23
Location: Drywall And Joint Compound; 501 Hall CL			
Analyst Description: White, Heterogeneous, Non-Fibrous, Joint Compound			
Asbestos Types: Chrysotile <1. %			
Other Material: Non-fibrous 100%			

See Reporting notes on last page

PLM Bulk Asbestos Report

2023-0878; Arrington Manor; 2225 College Street - Columbia, SC

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2C	123111667-06	***Yes***	Trace (<1.0 %) (by CVES) by David W. Ralbovsky on 11/27/23
Location: Drywall And Joint Compound; 507 Entry Ceiling			
Analyst Description: White, Heterogeneous, Non-Fibrous, Cementitious, Joint Compound			
Asbestos Types: Chrysotile <1. %			
Other Material: Non-fibrous 100%			
2D	123111667-07	***Yes***	Trace (<1.0 %) (by CVES) by David W. Ralbovsky on 11/27/23
Location: Joint Compound; 410 Bedroom CL			
Analyst Description: White, Heterogeneous, Non-Fibrous, Cementitious, Joint Compound			
Asbestos Types: Chrysotile <1. %			
Other Material: Non-fibrous 100%			
2E	123111667-08	***Yes***	Trace (<1.0 %) (by CVES) by David W. Ralbovsky on 11/27/23
Location: Joint Compound; 307 Bath CL			
Analyst Description: White, Heterogeneous, Non-Fibrous, Cementitious, Joint Compound			
Asbestos Types: Chrysotile <1. %			
Other Material: Non-fibrous 100%			
2F	123111667-09	***Yes***	Trace (<1.0 %) (by CVES) by David W. Ralbovsky on 11/27/23
Location: Joint Compound; 204 Bedroom 1 CL			
Analyst Description: White, Heterogeneous, Non-Fibrous, Cementitious, Joint Compound			
Asbestos Types: Chrysotile <1. %			
Other Material: Non-fibrous 100%			
2G	123111667-10	***No***	NAD (by CVES) by David W. Ralbovsky on 11/27/23
Location: Joint Compound; 103 Hall			
Analyst Description: White, Heterogeneous, Non-Fibrous, Cementitious, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100%			
3A	123111667-11	***No***	NAD (by CVES) by David W. Ralbovsky on 11/27/23
Location: 2'x4' Ceiling Tile - P'n'F; 6th FL Hall			
Analyst Description: Gray, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 55%, Fibrous glass 15%, Non-fibrous 5.0%, Perlite 25%			

See Reporting notes on last page

PLM Bulk Asbestos Report

2023-0878; Arrington Manor; 2225 College Street - Columbia, SC

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
3B	123111667-12	***No***	NAD (by CVES) by David W. Ralbovsky on 11/27/23
Location: 2'x4' Ceiling Tile - P'n'F; 3rd FL Hall			
Analyst Description: White/Gray, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 55%, Fibrous glass 15%, Non-fibrous 5.0%, Perlite 25%			
3C	123111667-13	***No***	NAD (by CVES) by David W. Ralbovsky on 11/27/23
Location: 2'x4' Ceiling Tile - P'n'F; 1st FL Hall			
Analyst Description: White/Gray, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 55%, Fibrous glass 15%, Non-fibrous 5.0%, Perlite 25%			
6A	123111667-14	***Yes***	2.0% (by CVES) by David W. Ralbovsky on 11/27/23
Location: Popcorn Ceiling Texture; 6th FL Hall			
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile 2.0%			
Other Material: Mica Trace, Non-fibrous 93%, Perlite 5.0%			
6B	123111667-15	***Yes***	2.0% (by CVES) by David W. Ralbovsky on 11/27/23
Location: Popcorn Ceiling Texture; 6th Storage CL Middle			
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile 2.0%			
Other Material: Non-fibrous 98%			
6C	123111667-16	***Yes***	2.0% (by CVES) by David W. Ralbovsky on 11/27/23
Location: Popcorn Ceiling Texture; 501 Hall CL			
Analyst Description: White, Heterogeneous, Non-Fibrous, Cementitious, Bulk Material			
Asbestos Types: Chrysotile 2.0%			
Other Material: Non-fibrous 98%			
6D	123111667-17	***No***	NAD (by CVES) by David W. Ralbovsky on 11/27/23
Location: Popcorn Ceiling Texture; 507 Entry			
Analyst Description: White, Heterogeneous, Non-Fibrous, Cementitious, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100%			

See Reporting notes on last page

PLM Bulk Asbestos Report

2023-0878; Arrington Manor; 2225 College Street - Columbia, SC

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
6E	123111667-18	***Yes***	Trace (<1.0 %) (by CVES) by David W. Ralbovsky on 11/27/23
Location: Popcorn Ceiling Texture; 410 Living Room			
Analyst Description: White, Heterogeneous, Non-Fibrous, Cementitious, Bulk Material			
Asbestos Types: Chrysotile <1. %			
Other Material: Non-fibrous 100%			
6F	123111667-19	***Yes***	Trace (<1.0 %) (by CVES) by David W. Ralbovsky on 11/27/23
Location: Popcorn Ceiling Texture; 204 Bedroom 1			
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile <1. %			
Other Material: Non-fibrous 100%			
6G	123111667-20	***No***	NAD (by CVES) by David W. Ralbovsky on 11/27/23
Location: Popcorn Ceiling Texture; 1st FL Maint Shop			
Analyst Description: White, Heterogeneous, Non-Fibrous, Cementitious, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100%			

Reporting Notes:

Analyzed by: David W. Ralbovsky
Date: 11/27/2023

Reviewed by: David W. Ralbovsky

*NAD = no asbestos detected, Detection Limit <1%, Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; "Present" or NVA = "No Visible Asbestos" are observations made during a qualitative analysis; NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis using Olympus, Model BH-2 microscope, Serial #229707, by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) and ELAP PLM Analysis Protocol 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NYSDOH ELAP Lab # 10984); CA ELAP Lab # 2508; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested.

123111667

ASBESTOS-CONTAINING MATERIALS SURVEY

SITE: Arrington Manor
ADDRESS: 2225 College Street– Columbia, SC
DATE: 11/15/23
CLIENT:

☐ **PLEASE ALLOW FOR POSITIVE STOP METHODOLOGY**

PERSONNEL: K. Hubicki
PROJECT #: 2023-0878
LABORATORY: AmeriSci
TAT: 3-day
TYPE OF ANALYSIS: PLM

HOMOGENOUS AREA	SAMPLE #	MATERIAL DESCRIPTION	LOCATION	QUANTITY/ FRIABILITY
1 (D) & 2 (JC)	1A/2A	Drywall and Joint Compound	6th FL Cable CL	
1 (D) & 2 (JC)	1B/2B	Drywall and Joint Compound	501 Hall CL	
1 (D) & 2 (JC)	1C/2C	Drywall and Joint Compound	507 Entry Ceiling	
2	2D	Joint Compound	410 Bedroom CL	
2	2E	Joint Compound	307 Bath CL	
2	2F	Joint Compound	204 Bedroom 1 CL	
2	2G	Joint Compound	103 Hall	
3	3A	2'x4' Ceiling Tile – P'n'F	6th FL Hall	
3	3B	2'x4' Ceiling Tile – P'n'F	3rd FL Hall	
3	3C	2'x4' Ceiling Tile – P'n'F	1st FL Hall	
6	6A	Popcorn Ceiling Texture	6th FL Hall	
6	6B	Popcorn Ceiling Texture	6th Storage CL Middle	
6	6C	Popcorn Ceiling Texture	501 Hall	
6	6D	Popcorn Ceiling Texture	507 Entry	
6	6E	Popcorn Ceiling Texture	410 Living Room	
6	6F	Popcorn Ceiling Texture	204 Bedroom 1	
6	6G	Popcorn Ceiling Texture	1st FL Maint. Shop	

SUBMITTED BY: K. HUBICKI **DATE SUBMITTED:** 11/17/23 **SIGNATURE:**

RECEIVED BY: **DATE RECEIVED:** **SIGNATURE:**

DOMINION DUE DILIGENCE GROUP

201 Wylderose Drive ♦ MIDLOTHIAN ♦ VIRGINIA 23113 ♦ PHONE: (804) 358-2020 ♦ FAX: (804) 358-3003

Received

NOV 20 2023

AmeriSci Richmond
13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: 8047631200 FAX: 8047631800

November 30, 2023

Dominion Due Diligence Group
Attn: Kim Dingledine
201 Wylderose Drive
Midlothian, VA 23113

RE: Dominion Due Diligence Group
Job Number 123111841
P.O. #2023-0878
2023-0878; Arrington Manor; 2225 College Street - Columbia, SC (Ref: 123-11-1667)

Dear Kim Dingledine:

Enclosed are the results for PLM (EPA 400 point count) asbestos analysis of the following Dominion Due Diligence Group samples received at AmeriSci on Monday, November 27, 2023, for a 3 day turnaround:

2A, 2B, 2C, 2D, 2E, 2F, 6A, 6B, 6C, 6E, 6F

The 11 samples contained in zip lock bag were shipped to AmeriSci via Submitted To Be Reanalyzed . These samples were prepared and analyzed according to the EPA Interim Method (EPA 600/M4-82-020 per 40 CFR 763, subpt F, App. A). The required analytical information, analysis results, analyst signature and laboratory indentification is contained in the Analyst's Report.

This report relates ONLY to the sample analysis expressed as percent asbestos. AmeriSci assumes no responsibility for customer supplied data such as “sample type”, "location", or “area sampled”. This report must not be used to claim product endorsement by AmeriSci, NVLAP or any agency of the U. S. Government. The National Institute of Standards and Technology accreditation requirements, mandate that this report must not be reproduced, except in full without the written approval of the laboratory. This report may contain specific data not covered by NVLAP or ELAP accreditations respectively, if so identified in relevant footnotes.

AmeriSci appreciates this opportunity to serve your organization. Please contact us for any further assistance or with any questions.

Sincerely,

Glenn F. Massey

QA Manager | Authorized Signatory

AmeriSci Richmond
13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800

PLM Bulk Asbestos Report

Dominion Due Diligence Group
Attn: Kim Dingledine
201 Wylderose Drive

Midlothian, VA 23113

Date Received 11/27/23
Date Examined 11/30/23

AmeriSci Job # 123111841
P.O. #

RE: 2023-0878; Arrington Manor; 2225 College Street - Columbia, SC (Ref: 123-11-1667)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2A	123111841-01	***Yes***	0.3% pc (by 400 pt ct) by Eric H. Ahles on 11/30/23
Location: Drywall And Joint Compound; 6th Fl Cable CL			
Analyst Description: White, Heterogeneous, Non-Fibrous, Joint Compound **Asbestos Types:** Chrysotile 0.3% **Other Material:** Non-fibrous 99%			
2B	123111841-02	***Yes***	0.3% pc (by 400 pt ct) by Eric H. Ahles on 11/30/23
Location: Drywall And Joint Compound; 501 Hall CL			
Analyst Description: White, Heterogeneous, Non-Fibrous, Joint Compound **Asbestos Types:** Chrysotile 0.3% **Other Material:** Non-fibrous 99%			
2C	123111841-03	***Yes***	Trace (<0.3 % pc) (by 400 pt ct) by Eric H. Ahles on 11/30/23
Location: Drywall And Joint Compound; 507 Entry Ceiling			
Analyst Description: White, Heterogeneous, Non-Fibrous, Joint Compound **Asbestos Types:** Chrysotile <0.3 % pc **Other Material:** Non-fibrous 100%			
2D	123111841-04	***Yes***	0.3% pc (by 400 pt ct) by Eric H. Ahles on 11/30/23
Location: Joint Compound; 410 Bedroom CL			
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 0.3% **Other Material:** Non-fibrous 99%			
2E	123111841-05	***Yes***	0.3% pc (by 400 pt ct) by Eric H. Ahles on 11/30/23
Location: Joint Compound; 307 Bath CL			
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 0.3% **Other Material:** Non-fibrous 99%			

See Reporting notes on last page

PLM Bulk Asbestos Report

2023-0878; Arrington Manor; 2225 College Street - Columbia, SC (Ref: 123-11-1667)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2F	123111841-06	***Yes***	0.3% pc (by 400 pt ct) by Eric H. Ahles on 11/30/23
Location: Joint Compound; 204 Bedroom 1 CL			
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile 0.3%			
Other Material: Non-fibrous 99%			
6A	123111841-07	***Yes***	1.5% pc (by 400 pt ct) by Eric H. Ahles on 11/30/23
Location: Popcorn Ceiling Texture; 6th Fl Hall			
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile 1.5%			
Other Material: Non-fibrous 98%			
6B	123111841-08	***Yes***	1.3% pc (by 400 pt ct) by Eric H. Ahles on 11/30/23
Location: Popcorn Ceiling Texture; 6th Storage CL Middle			
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile 1.3%			
Other Material: Non-fibrous 98%			
6C	123111841-09	***Yes***	1.3% pc (by 400 pt ct) by Eric H. Ahles on 11/30/23
Location: Popcorn Ceiling Texture; 501 Hall CL			
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile 1.3%			
Other Material: Fibrous Talc 1.8%, Non-fibrous 97%			
6E	123111841-10	***Yes***	0.5% pc (by 400 pt ct) by Eric H. Ahles on 11/30/23
Location: Popcorn Ceiling Texture; 410 Living Room			
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile 0.5%			
Other Material: Non-Asbestos 98%, Fibrous Talc 1.5%			
6F	123111841-11	***Yes***	0.5% pc (by 400 pt ct) by Eric H. Ahles on 11/30/23
Location: Popcorn Ceiling Texture; 1st Fl Maint Shop			
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile 0.5%			
Other Material: Fibrous Talc 1.5%, Non-fibrous 98%			

See Reporting notes on last page

PLM Bulk Asbestos Report

2023-0878; Arrington Manor; 2225 College Street - Columbia, SC (Ref: 123-11-1667)

Reporting Notes:

Analyzed by: Eric H. Ahles Reviewed by: Eric H. Ahles

Date: 11/30/2023

*NAD = no asbestos detected, Detection Limit <1%, Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; "Present" or NVA = "No Visible Asbestos" are observations made during a qualitative analysis; NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis using Meiji, Model MT 6130 microscope, Serial #1410298, by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) and ELAP PLM Analysis Protocol 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NYSDOH ELAP Lab # 10984); CA ELAP Lab # 2508; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested.

KJM 11/27/23

~~123111667~~ 123111841

ASBESTOS-CONTAINING MATERIALS SURVEY

SITE: Arrington Manor
ADDRESS: 2225 College Street– Columbia, SC
DATE: 11/15/23
CLIENT:

☐ **PLEASE ALLOW FOR POSITIVE STOP METHODOLOGY**

PERSONNEL: K. Hubicki
PROJECT #: 2023-0878
LABORATORY: AmeriSci
TAT: 3-day
TYPE OF ANALYSIS: PLM

HOMOGENOUS AREA	SAMPLE #	MATERIAL DESCRIPTION	LOCATION	QUANTITY/ FRIABILITY
1 (D) & 2 (JC)	1A/2A •	Drywall and Joint Compound	6th FL Cable CL	
1 (D) & 2 (JC)	1B/2B •	Drywall and Joint Compound	501 Hall CL	
1 (D) & 2 (JC)	1C/2C •	Drywall and Joint Compound	507 Entry Ceiling	
2	2D •	Joint Compound	410 Bedroom CL	
2	2E •	Joint Compound	307 Bath CL	
2	2F •	Joint Compound	204 Bedroom 1 CL	
2	2G	Joint Compound	103 Hall	
3	3A	2'x4' Ceiling Tile – P'n'F	6th FL Hall	
3	3B	2'x4' Ceiling Tile – P'n'F	3rd FL Hall	
3	3C	2'x4' Ceiling Tile – P'n'F	1st FL Hall	
6	6A •	Popcorn Ceiling Texture	6th FL Hall	
6	6B •	Popcorn Ceiling Texture	6th Storage CL Middle	
6	6C •	Popcorn Ceiling Texture	501 Hall	
6	6D	Popcorn Ceiling Texture	507 Entry	
6	6E •	Popcorn Ceiling Texture	410 Living Room	
6	6F •	Popcorn Ceiling Texture	204 Bedroom 1	
6	6G	Popcorn Ceiling Texture	1st FL Maint. Shop	

SUBMITTED BY: K. HUBICKI **DATE SUBMITTED:** 11/17/23 **SIGNATURE:** [signature]

RECEIVED BY: _____ **DATE RECEIVED:** _____ **SIGNATURE:** _____

DOMINION DUE DILIGENCE GROUP

201 Wylderose Drive ♦ MIDLOTHIAN ♦ VIRGINIA 23113 ♦ PHONE: (804) 358-2020 ♦ FAX: (804) 358-3003

Received

NOV 20 2023

KJM

Subject: RE: AmeriSci Report/Invoice 123111667; 2023-0878; Arrington Manor; 2225 College Street - Columbia, SC
From: Kim Dingledine <k.dingledine@d3g.com>
Date: 11/27/2023, 12:01 PM
To: "varesults@amerisci.com" <varesults@amerisci.com>

123111841

Please run a point count analysis w/ a 3 day TAT on the following samples:

123111667-04
123111667-05
123111667-06
123111667-07
123111667-08
123111667-09
123111667-14
123111667-15
123111667-16
123111667-18
123111667-19

Kim Dingledine
(she, her, hers)
Hazardous Materials Manager
O: (804) 339-1187
E: k.dingledine@d3g.com
A: 201 Wylderose Drive
Midlothian, Va. 23113

DOMINION
Due Diligence Group

People, Innovation, Passion, Excellence

-----Original Message-----
From: varesults@amerisci.com <varesults@amerisci.com>
Sent: Monday, November 27, 2023 11:48 AM
To: Kim Dingledine <k.dingledine@d3g.com>
Cc: varesults@amerisci.com
Subject: AmeriSci Report/Invoice 123111667; 2023-0878; Arrington Manor; 2225 College Street - Columbia, SC

Caution: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Thank you from AmeriSci.

ASBESTOS-CONTAINING MATERIALS SURVEY FORM

SITE: Arrington Manor
ADDRESS: 2225 College Street– Columbia, SC
DATE: 11/15/2023

INSPECTOR NAME: Kathryn Hubicki
INSPECTOR LICENSE #: BI-01079
D3G PROJECT #: 2023-0878

HOMOGENOUS AREA/MATERIAL DESCRIPTION	LOCATIONS OBSERVED	SAMPLE #	QUANTITY OBSERVED	OBSERVED CONDITION	FRIABILITY	NOB MATERIAL?
(i.e. 12"x12" brown floor tile, ceiling texture, roofing shingles, caulking materials)	*(i.e. Unit 101 – throughout observed unit interiors, or mechanical closets, etc.)*	*(from COC or list as Presumed if not sampled)*	*(i.e. # of elbows, throughout interior, kitchens, etc.)*	*Note any areas of damage observed by inspector*	*Friable/non-friable/ encapsulated*	*Yes or No*
Drywall (1)	Walls and Ceilings Throughout (except Common Halls and Firewalls between some units)	1A-1C	108,000 SF	Good except for 507 Entry Ceiling	NF	No
Joint Compound (2)	Walls and Ceilings Throughout (except Common Halls and Firewalls between some units)	2A-2G	108,000 SF	Good except for 507 Entry Ceiling	F	No
2'x4' Ceiling Tiles (3)	Ceilings in Common Halls and Community Room, Manager's Office, Laundry, Security Office and Social Worker's Office	3A-3C	8,000 SF	Good	F	No

DOMINION DUE DILIGENCE GROUP
201 Wylderose Drive ♦ MIDLOTHIAN ♦ VIRGINIA 23113 ♦ PHONE: (804) 358-2020 ♦ FAX: (804) 358-3003

ASBESTOS-CONTAINING MATERIALS SURVEY FORM

SITE: Arrington Manor
ADDRESS: 2225 College Street– Columbia, SC
DATE: 11/15/2023

INSPECTOR NAME: Kathryn Hubicki
INSPECTOR LICENSE #: BI-01079
D3G PROJECT #: 2023-0878

HOMOGENOUS AREA/MATERIAL DESCRIPTION	LOCATIONS OBSERVED	SAMPLE #	QUANTITY OBSERVED	OBSERVED CONDITION	FRIABILITY	NOB MATERIAL?
12”x12” Vinyl Floor Tile and assoc. Mastic (4)	Throughout Units, Central Common Hallways (except Elev. Lobbies), Room to Roof, Storage Rooms, Laundry, Community Room with Kitchen, Elevator Room, Stair Landings at Floors	Assumed	42,000 SF	Good	NF	Yes
Ceramic Tile Grout (5)	Elevator Lobbies, Community Room, 1st Floor Bathrooms	Assumed	1800 SF	Good	NF	No
Popcorn Ceiling Texture (6)	Throughout Units, Above Ceiling Tiles in Central Floor Hallways on 2nd-6th Floors, Records Room, Community Room with Kitchen, Maintenance Shop	6A-6G	44,000 SF	Good except for 507 Entry Ceiling	F	No

DOMINION DUE DILIGENCE GROUP
201 Wylderose Drive ♦ MIDLOTHIAN ♦ VIRGINIA 23113 ♦ PHONE: (804) 358-2020 ♦ FAX: (804) 358-3003

ASBESTOS-CONTAINING MATERIALS SURVEY FORM

SITE: Arrington Manor
ADDRESS: 2225 College Street– Columbia, SC
DATE: 11/15/2023

INSPECTOR NAME: Kathryn Hubicki
INSPECTOR LICENSE #: BI-01079
D3G PROJECT #: 2023-0878

HOMOGENOUS AREA/MATERIAL DESCRIPTION	LOCATIONS OBSERVED	SAMPLE #	QUANTITY OBSERVED	OBSERVED CONDITION	FRIABILITY	NOB MATERIAL?
Assorted Colors 4" Cove Base and assoc. Mastic (7)	Room to Roof, Storage Closets, Throughout Units, Maintenance Shop, Elevator Room, 1st Floor Bathrooms, Laundry, Security Office, Social Worker's Office, Community Room, Community Room with Kitchen, Stair Landings at Floors	Assumed	8,500 SF	Good	NF	Yes
White Undersink Coating (8)	Unit Kitchen Sinks	Assumed	4 SF/unit	Good	NF	Yes
8" Wood Grain Vinyl Plank and assoc. Mastic (9)	Manager's Office	Assumed	250 SF	Good	NF	Yes
Assorted Colors 6" Cove Base and assoc. Mastic (10)	Elevator Cars, Manager's Office	Assumed	150 LF	Good	NF	Yes

DOMINION DUE DILIGENCE GROUP
201 Wylderose Drive ♦ MIDLOTHIAN ♦ VIRGINIA 23113 ♦ PHONE: (804) 358-2020 ♦ FAX: (804) 358-3003

ASBESTOS-CONTAINING MATERIALS SURVEY FORM

SITE: Arrington Manor
ADDRESS: 2225 College Street– Columbia, SC
DATE: 11/15/2023

INSPECTOR NAME: Kathryn Hubicki
INSPECTOR LICENSE #: BI-01079
D3G PROJECT #: 2023-0878

HOMOGENOUS AREA/MATERIAL DESCRIPTION	LOCATIONS OBSERVED	SAMPLE #	QUANTITY OBSERVED	OBSERVED CONDITION	FRIABILITY	NOB MATERIAL?
Assorted Vinyl Sheet Flooring (11)	Elevator Cars, Security Office, Social Worker's Office	Assumed	400 SF	Good	NF	Yes
Gray Undersink Coating (12)	Community Room with Kitchen	Assumed	4 SF	Good	NF	Yes
Exterior Transite Panels (13)	1st Floor Panels above and below windows, door opening fillers and structures above entrance doors on front and back	Assumed	450 SF	Good	NF	No
Exterior Caulking (14)	Perimeter of Windows and Doors and Transite Panels	Assumed	3,250 LF	Good	NF	Yes
Membrane Roofing and assoc. Materials (15)	Roof	Assumed	7500 SF	Good	NF	Yes

DOMINION DUE DILIGENCE GROUP
201 Wylderose Drive ♦ MIDLOTHIAN ♦ VIRGINIA 23113 ♦ PHONE: (804) 358-2020 ♦ FAX: (804) 358-3003

ASBESTOS-CONTAINING MATERIALS SURVEY FORM

SITE: Arrington Manor
ADDRESS: 2225 College Street– Columbia, SC
DATE: 11/15/2023

INSPECTOR NAME: Kathryn Hubicki
INSPECTOR LICENSE #: BI-01079
D3G PROJECT #: 2023-0878

HOMOGENOUS AREA/MATERIAL DESCRIPTION	LOCATIONS OBSERVED	SAMPLE #	QUANTITY OBSERVED	OBSERVED CONDITION	FRIABILITY	NOB MATERIAL?
Mirror Mastic (16)??	1st Floor Bathrooms	Assumed – if present at all – couldn't tell	12 SF	Good	NF	Yes

FACILITY NOTES (i.e. list units inspected, interviewed persons, known dates of renovations, construction, fires, etc.):

Escort was Columbia HA maintenance man Ricky.

Appears that Fire Exit at end of building was added on – not confirmed by anyone onsite but brick was slightly different.

Units Accessed: 601, 501, 507, 410, 307, 204, 211, 103

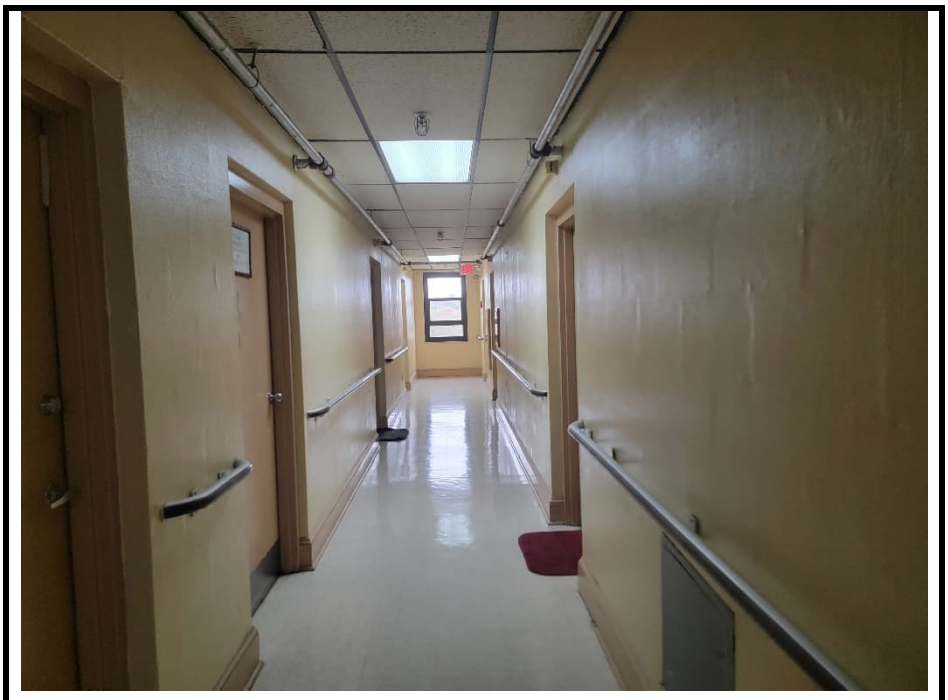
Interior Finishes: drywall and concrete block walls (halls are concrete block covered by wallpaper); vinyl and wood baseboards; vinyl, ceramic tile, concrete and carpet flooring; drywall, ceiling tile and metal decking (above ceiling tiles in hallways); undersink coating.

Exterior Finishes: Brick siding, transite panels, metal windows and doors, exterior caulking.

DOMINION DUE DILIGENCE GROUP
201 Wylderose Drive ♦ MIDLOTHIAN ♦ VIRGINIA 23113 ♦ PHONE: (804) 358-2020 ♦ FAX: (804) 358-3003

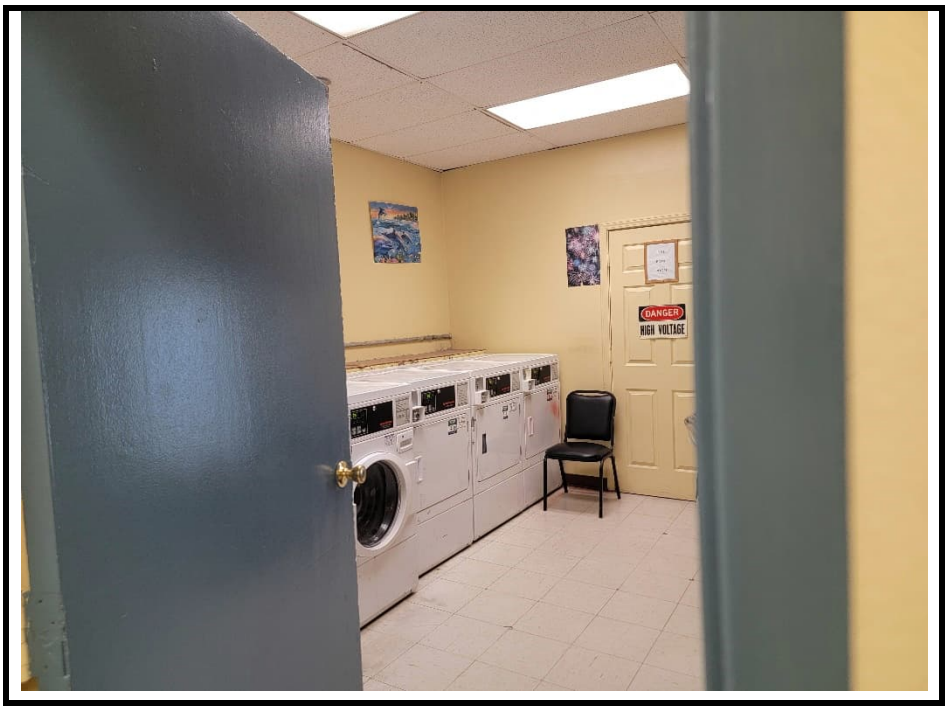
1. Property Sign

2. Exterior Front Side



3. Residential Hallway

4. First Floor Hallway



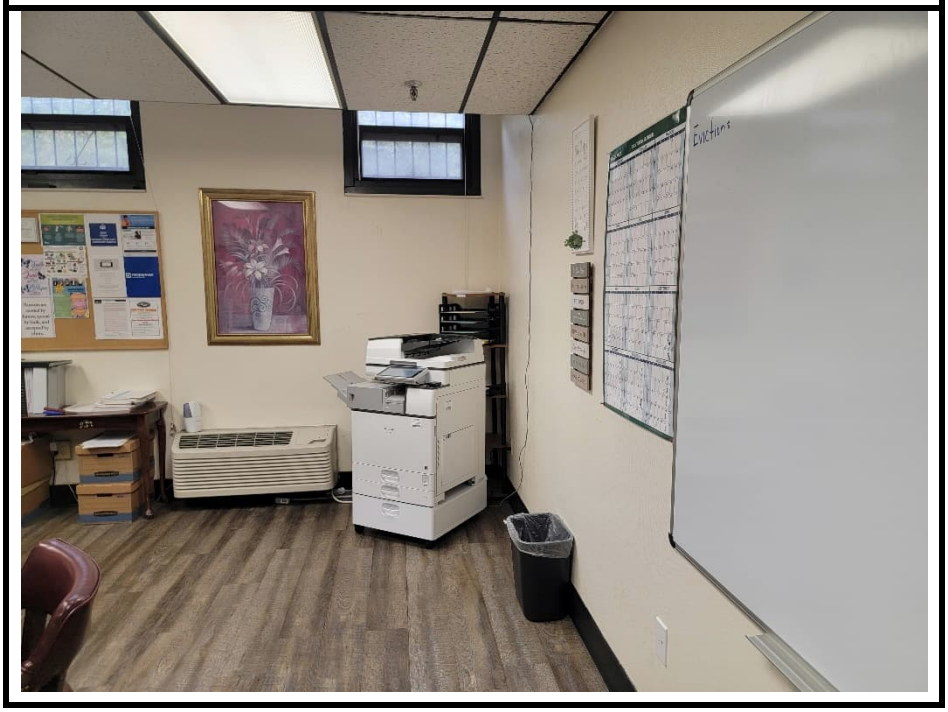
5. Laundry

6. Maintenance Shop

7. Common Bathrooms

8. Elevator Room

9. Community Room



10. Manager's Office

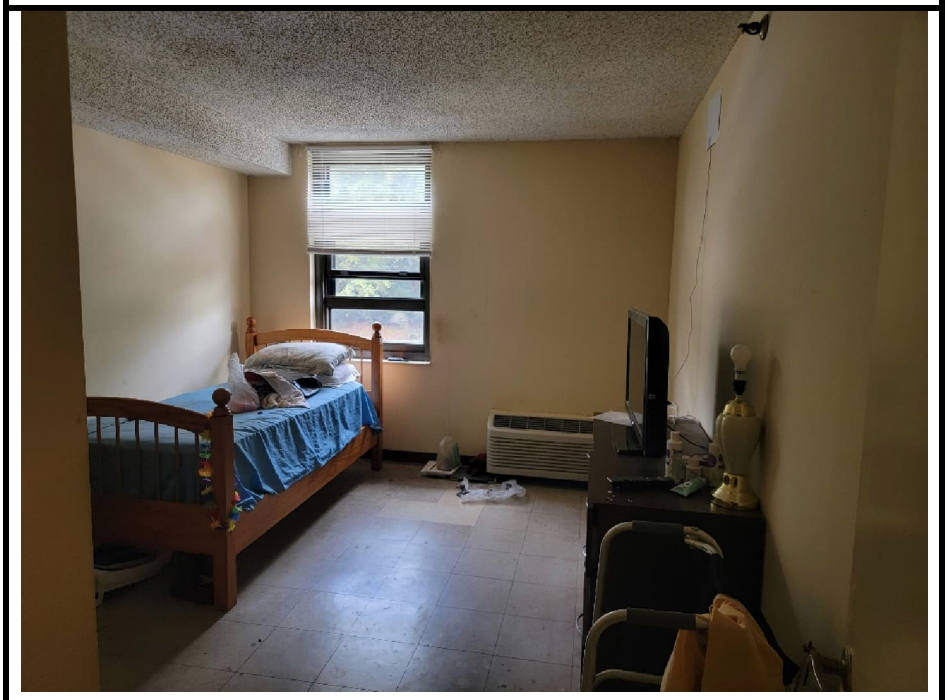
11. Security Office

12. File Room

13. Community Room with Kitchen

14. Garbage Room

15. Fiberglass Pipe Insulation

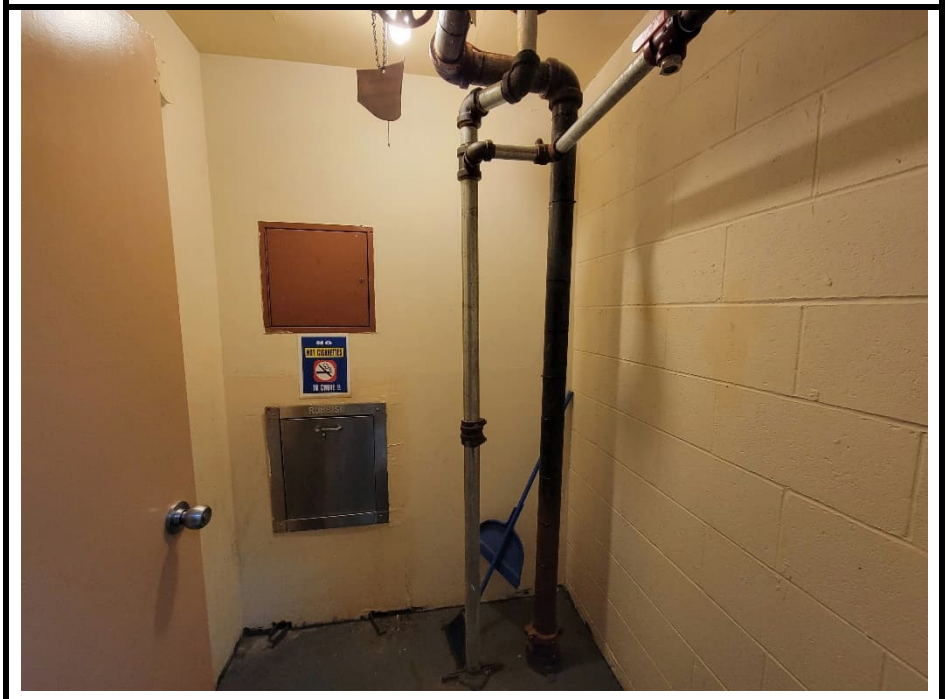


16. Representative Unit Bedroom

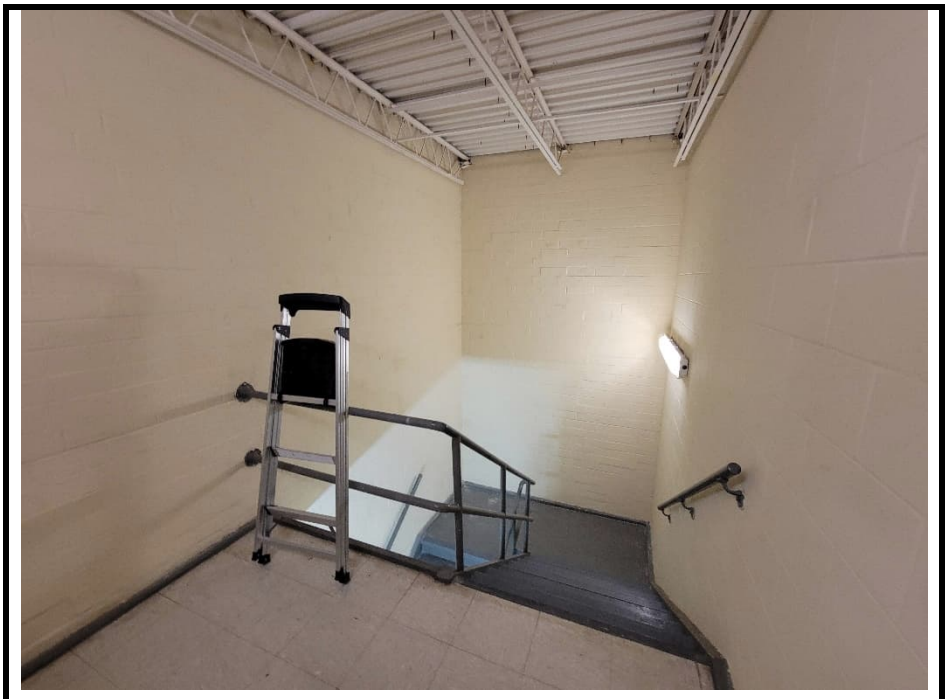
17. Living Room

18. Representative Unit Bathroom

19. Representative Unit Kitchen



20. Garbage Chute Closet



21. Stairwell

22. Assumed ACM Roof

23. View of Base of Roof at Roof Access

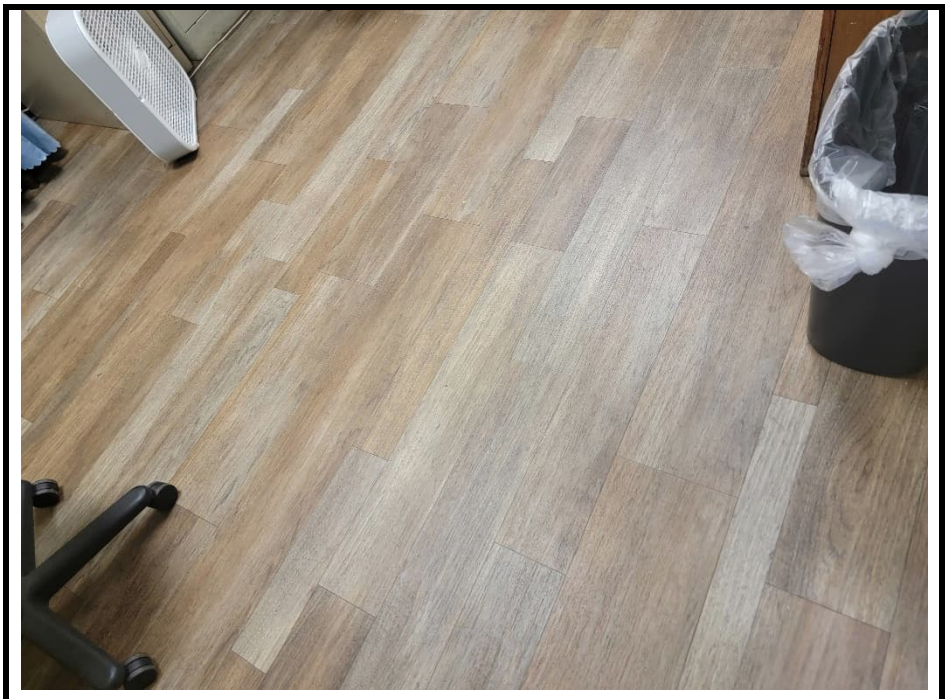
24. ACM HA 6 – Ceiling Texture on Metal Decking above Ceiling Tiles

25. ACM Ceiling Texture in Unit

26. Non-ACM HA 3 – 2'x4' Ceiling Tile

27. Assumed ACM 12”x12” Vinyl Floor Tile and Assumed ACM 4” Cove Base

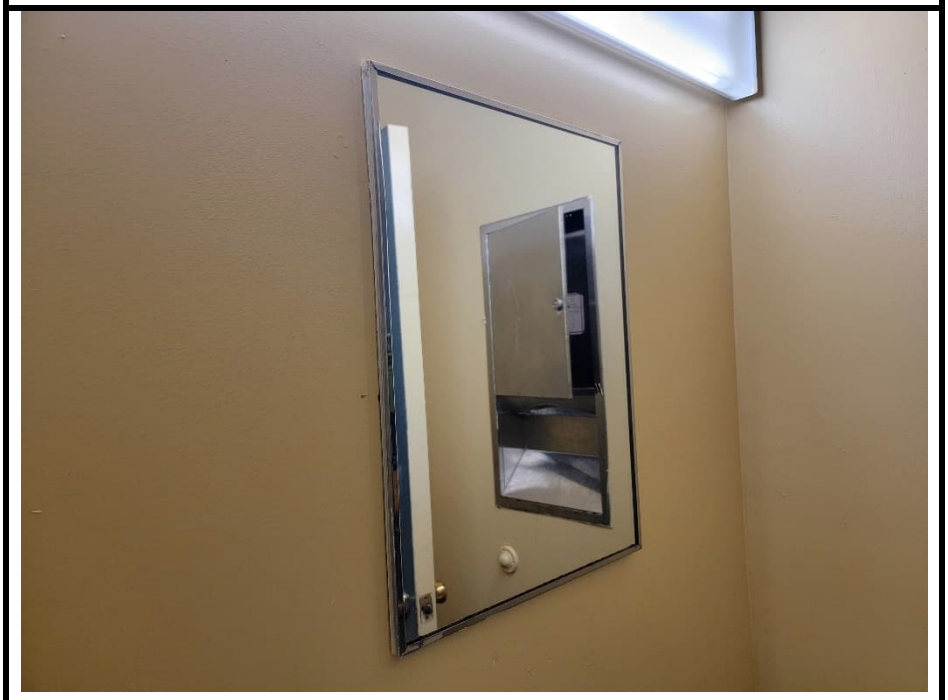
28. Assumed ACM White Undersink Coating



29. Assumed ACM Vinyl Sheet Flooring in Security Office

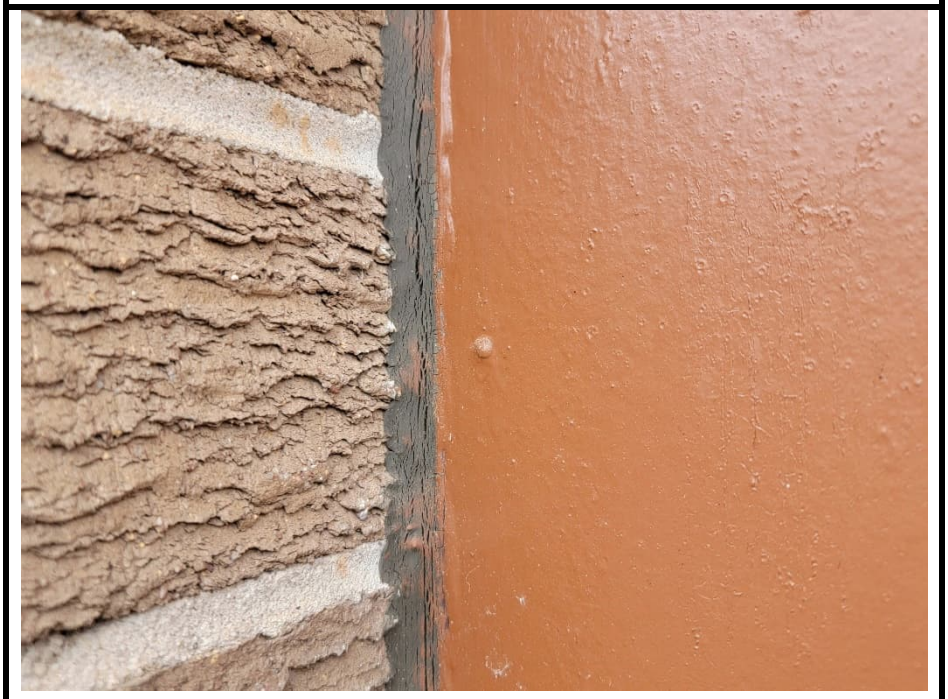
30. Damaged Ceiling at Entry of Unit 507

31. Assumed Vinyl Sheet Flooring and Assumed 6” Cove Baseboard in Elevator



32. Mirror in Common Bathroom that may have Assumed ACM Mastic

33. Ceiling above First Floor Ceiling Tiles at Hall



34. Assumed ACM Exterior Caulking

35. Assumed ACM Transite Panels

36. Assumed ACM Transite Panels on Exterior

37. Assumed ACM Exterior Window Caulking

SCDHEC ISSUED

Asbestos ID Card

Kathryn Hubicki

		Expiration Date:
CONSULTBI	BI-01079	06/05/24
CONSULTMP	MP-000309	06/05/24

Appendix K:

D3G Limited Phase II dated May 6, 2024

LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT
ARRINGTON MANOR
2225 COLLEGE STREET
COLUMBIA, SOUTH CAROLINA 29205

D3G PROJECT NUMBER:
2024-000564

FINAL REPORT ISSUE DATE:
MAY 6, 2024

INSPECTION DATE:
MARCH 15, 2024

PREPARED FOR:
COLUMBIA HOUSING
1917 HARDEN STREET
COLUMBIA, SOUTH CAROLINA 29204

Ian Court
Site Assessor/Staff Environmental Scientist

Signature

Brett Diehl, P.G.
Senior Geologist

Signature

Ron James, P.G., C.E.M.
Technical Director of Environmental Services

Signature

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1.0 EXECUTIVE SUMMARY

Dominion Due Diligence Group (D3G) conducted a Limited Phase II Environmental Site Assessment (ESA) of Arrington Manor located at 2225 College Street in Columbia, South Carolina (subject property), in accordance with D3G's proposal to Columbia Housing (Client) for the work, accepted by the Client on March 4, 2024. This report has been prepared for and can be relied upon by the Client and the United States Department of Housing and Urban Development (HUD). As such, Columbia Housing and HUD are authorized "Users" of this Phase II ESA. This report is not to be relied upon or reproduced, either in whole or in part, without written consent from D3G.

The subject property consists of one (1) six-story age-restricted apartment structure constructed in 1971. The subject property structure contains a total of fifty-eight (58) residential dwelling units and is situated on approximately 0.94 acres of land. Located within the apartment structure are laundry facilities, office areas, laundry facilities, a community room/kitchen, and mechanical areas. Exterior property improvements include sitting areas, landscaped regions, and asphalt parking areas. The subject property is serviced by electricity and municipally supplied water and sewer. The Sponsor is submitting this project through the HUD Special Applications Center (SAC), consisting of a Section 18 disposition application of the existing age-restricted apartment complex with no significant ground disturbing activities.

The purpose of the Limited Phase II ESA was to evaluate the environmental integrity of the subject property based on the Draft D3G Phase I ESA findings, dated November 15, 2023, for Arrington Manor in Columbia, South Carolina, which identified the following Recognized Environmental Conditions (RECs):

Recognized Environmental Conditions [RECs]	
On-site LUST/UST/VEC	Arrington Manor High Rise (Subject Property), located at the subject property, is identified as a LUST incident and UST facility in the EDR Report. According to the UST listing, the facility (Facility ID: 07323) is associated with one (1) 560-gallon abandoned diesel underground storage tank (UST). No information regarding the age of the UST was included in the EDR Report. According to the LUST listing (Facility ID #07323), a release of diesel was reported on December 20, 1991. Clean up was initiated November 23, 1992, and a No Further Action letter was issued on January 13, 1993. D3G submitted a FOIA request with the South Carolina Department of Health and Environmental Control (SCDHEC) to obtain records regarding the adjacent LUST incident and UST facility. However, SCDHEC responded that no files were available for the on-site facility. Therefore, D3G requested that the Columbia Housing Authority provide any/all documentation related to the on-site UST facility and LUST incident. However, no information was available. Based on the lack of documentation for the adjacent LUST incident and UST facility, the adjacent facility is considered a REC, and a Vapor Encroachment Condition (VEC) currently exists on the

Recognized Environmental Conditions [RECs]	
	subject property. Further investigation is warranted to further evaluate the identified VEC attributed/associated with the on-site LUST/UST.

Therefore, to determine if the LUST incident involving one (1) 560-gallon abandoned diesel UST have negatively affected the environmental integrity of the subject property, and to assess whether there has been a release of hazardous substances at levels that would exceed the Statewide screening-level criteria (*de minimis* levels), D3G performed a Limited Phase II ESA on March 15, 2024, which included the advancement of three (3) soil borings with the collection of subsurface soil (SB-1, SB-2, and SB-3) for laboratory analysis. In addition, three (3) soil gas borings were advanced for the collection of soil gas samples (SG-1, SG-2, and SG-3). Subsurface soil samples were analyzed for Select Volatile Organic Compounds (VOCs) via EPA Method 8260/8011 and Polycyclic Aromatic Hydrocarbons (PAHs) via Environmental Protection Agency (EPA) Method 8270-SIM. Soil gas samples were analyzed for Select VOCs via EPA Method TO-15.

Conclusions:

East Coast Geophysics reported to the Arrington Manor property in Columbia, South Carolina (subject property) on March 15, 2024, to perform a geophysical and ferromagnetic survey within the immediate vicinity of the LUST incident involving one (1) 560-gallon abandoned diesel UST.

The property was further surveyed with the GPR and no evidence of a UST was observed. There were some apparent disturbed soils in the area where borings were pre-cleared, but no definitive evidence of a tank grave was observed. Furthermore, East Coast Geophysics investigated the boiler room for evidence of an UST such as vent/fill pipes, asphalt patches, and/or ground depressions. No evidence of a UST was observed on the property.

Therefore, in order to determine if the LUST incident involving one (1) 560-gallon abandoned diesel UST has negatively affected the environmental integrity of the subject property, and to assess whether there has been a release of hazardous substances at levels that would exceed the Statewide screening-level criteria (*de minimis* levels), D3G advanced three (3) soil borings for the collection of subsurface soil (SB-1 through SB-3) for laboratory analysis. In addition, three (3) soil gas borings were advanced for the collection of soil gas samples (SG-1 through SG-3) and one (1) outdoor (ambient) air sample (OA-1).

One (1) soil gas sample was collected from temporary soil gas sampling points SG-1 through SG-3 as well as one outdoor (ambient) air sample (OA-1) and analyzed for Select VOCs via EPA Method TO-15. Elevated concentrations of Select VOC (Benzene) analyzed within the soil gas samples collected from soil gas sampling points SG-1 [22.9 ug/m3], SG-2 [51.7 ug/m3], and SG-3 [19.2 ug/m3] were identified above their respective laboratory reporting limit and above their applicable respective United States Environmental Protection (USEPA) Sub-Slab and Near Source Soil Gas Vapor Intrusion Screening Levels (VISL) and/or South Carolina Department of Health and Environmental Control Risk Based Screening Levels (SCDHEC RBSLs) for Inhalation of vapors respectively during this Limited Phase II ESA investigation.

The primary objective of risk-based screening is to identify sites or buildings unlikely to pose a health concern through the soil gas intrusion pathway. Generally, at properties where subsurface concentrations of vapor-forming chemicals, such as those in groundwater or "near source" soil gas, fall below the recommended screening levels (i.e., VISLs/SCDHEC RBSLs), no further action or study is warranted. This condition is generally true so long as the exposure assumptions match those accounted for in the calculations, and the site fulfills the conditions and assumptions of the generic conceptual model underlying the screening levels. Similarly, the results of risk-based screening can help the data review team identify areas, buildings, and/or chemicals that can be eliminated from further assessment. Subsurface vapor intrusion to indoor air from volatile compounds in sub-surface media is a potentially major exposure pathway. The USEPA VISLs for Near-source Soil Gas and USEPA VISLs for Target Indoor Air Concentrations address residential and commercial/industrial exposure scenarios and may be used for screening contaminants in indoor air. The air screening levels for volatile chemicals also have potential applications for screening soil gas data when used in concert with an appropriate attenuation factor and it is recommended that screening assessments evaluate the default attenuation factor of 0.03 for sub-slab soil gas and "near-source" exterior soil gas, released in 2015 by USEPA.

Based on the laboratory analytical results indicating an elevated concentration of Select VOC constituent (Benzene) identified within the soil gas samples collected from SG-1 through SG-3 above the applicable USEPA Target Sub-Slab and Near-source Soil Gas VISLs during this Limited Phase II ESA, D3G utilized the USEPA VISL Calculator to determine site-specific calculated Target Indoor Air Concentrations. The VISL calculator identifies chemicals that are sufficiently volatile and toxic to warrant an investigation of the soil gas intrusion pathway when they are present as subsurface contaminants. D3G input the elevated soil gas sampling analytical data and the recommended default attenuation factor for soil gas (0.03) into the USEPA VISL calculator to further evaluate calculated site-specific indoor air concentrations. After calculating estimated site-specific Target Indoor Air Concentrations from the soil gas analytical data, D3G compared these calculations against the SCDHEC RBSLs for Inhalation of vapors, dated July 2020, to determine if the identified soil gas concentrations will be detrimental to the residential structure indoor air and thus, pose a threat to the environment and to the health of existing or future tenants.

Based on the results of the EPA VISL calculator indicating calculated estimated site-specific Indoor Air Concentration of Select VOC constituent (Benzene) above the applicable SCDHEC RBSLs for inhalation of vapors, the potential inhalation exposure pathway for residential receptors is considered currently complete; therefore, a VEC currently exists (cannot currently be ruled out) at the subject property attributed to the LUST incident involving one (1) 560-gallon abandoned diesel UST within the areas investigated during this Limited Phase II ESA. D3G concludes that the identified concentrations of Select VOC (Benzene) collected within the exterior soil gas samples (SG-1 through SG-3) potentially represents a potential Vapor Intrusion Condition (VIC) within the soil gas to indoor air pathway, representing a potential unacceptable risk (currently) under HUD's toxics policy at §50.3(i) in regard to unrestricted residential use criteria suspected to be attributed to the LUST incident involving one (1) 560-gallon abandoned diesel UST within these Areas of Concern (AOCs) investigated as part of this Limited Phase II ESA investigation. However, it should be noted, the EPA VISL model is a conservative screening tool and does not account for building foundation type, size, soil gas entry rates, building exchange rates, soil type, porosity, moisture, vertical and/or lateral inclusion zones from the source and/or chemical volatilization from groundwater.

However, based on the subsurface soil samples collected from the subject property, no concentrations of Select VOC constituent (Benzene) was identified above the SCDHEC RBSLs for soils and/or the USEPA RSLs for Resident Soil within the areas investigated indicating a lack of source media (soil contamination) beneath the subject property, D3G suspects a potential vapor source migrating onto the subject property through preferential pathways (i.e. utility lines, etc.) and are most likely attributed to an off-site source.

Following submittal of this Limited Phase II ESA, in accordance with regulations set forth by the SCDHEC – Site Assessment and Revitalization Division: Bureau of Land and Waste Management, all laboratory analytical data, water levels obtained from each temporary groundwater sampling point will be submitted to the Department within thirty (30) days of the receipt of laboratory results unless another schedule has been approved by the Department as required by R.61-71.H.1.a of the South Carolina Well Standards and Regulations, dated April 26, 2002.

<u>Recommendations:</u>
Based on the soil gas laboratory analytical results from samples collected from soil gas points SG-1 [22.9 ug/m3], SG-2 [51.7 ug/m3], and SG-3 [19.2 ug/m3] indicating the presence of Volatile Organic Compound (Benzene) above its applicable USEPA VISLs for Target Sub-Slab and Near-Source Soil-Gas Concentration (TR=1E-06, THQ=0.1) and/or SCDHEC RBSLs for Inhalation of vapors during this Limited Phase II ESA/Tier II Invasive Screen investigation, soil vapor beneath the Arrington Manor has been adversely affected with a Recognized Environmental Condition (REC) and Vapor Encroachment Condition (VEC) currently existing within subsurface media (soil gas) beneath the subject property within the areas investigated as part of this Limited Phase II ESA investigation.

In accordance with 24 CFR 970.15, A Public Housing Authority (PHA) must obtain written approval from HUD before undertaking any transaction involving demolition or disposition of PHA-owned property. Where a PHA demolishes or disposes of public housing property without HUD approval, no HUD funds may be used to fund the costs of demolition or disposition or reimburse the PHA for those costs. HUD will approve an application for demolition or disposition upon the PHA's submission of an application with the required certifications and the supporting information required by this section and §§ 970.15 or 970.17. Section 970.29 specifies criteria for disapproval of an application. Approval of the application under this part does not imply approval of a request for additional funding, which the PHA must make separately under a program that makes available funding for this purpose. The PHA shall submit the application for demolition or disposition and the timetable in a time and manner and in a form prescribed by HUD. The supporting information shall include:

- A certification that the PHA has described the demolition or disposition in the PHA Annual Plan and timetable under 24 CFR part 903 (except in the case of small or high-performing PHAs eligible for streamlined annual plan treatment), and that the description in the PHA Annual Plan is identical to the application submitted pursuant to this part and otherwise complies with section 18 of the Act (42 U.S.C. 1437p) and this part;
- A description of all identifiable property, by development, including land, dwelling units, and other improvements, involved in the proposed demolition or disposition;
- A description of the specific action proposed, such as: (i) Demolition, disposition, or demolition with disposition; (ii) If disposition is involved, the method of sale;
- A general timetable for the proposed action(s), including the initial contract for demolition, the actual demolition, and, if applicable, the closing of sale or other form of disposition;
- A statement justifying the proposed demolition or disposition under the applicable criteria of §§ 970.15 or 970.17;
- If applicable, a plan for the relocation of tenants who would be displaced by the proposed demolition or disposition (including persons with disabilities requiring reasonable accommodations and a relocation timetable as prescribed in § 970.21);
- A description with supporting evidence of the PHA's consultations with residents, any resident organizations, and the Resident Advisory Board, as required under § 903.9 of this title;
- In the case of disposition only, evidence of compliance with the offering to resident organizations, as required under § 970.9;
- In the case of disposition, an estimate of the fair market value of the property, established on the basis of one independent appraisal, unless otherwise determined by HUD, as described in § 970.19(c);
- In the case of disposition, estimates of the gross and net proceeds to be realized, with an itemization of estimated costs to be paid out of gross proceeds and the proposed use of any net proceeds in accordance with § 970.19;
- An estimate of costs for any required relocation housing, moving costs, and counseling.

- Where the PHA is requesting a waiver of the requirement for the application of proceeds for repayment of outstanding debt, the PHA must request such a waiver in its application, along with a description of the proposed use of the proceeds;
- A copy of a resolution by the PHA's Board of Commissioners approving the specific demolition or disposition application (or, in the case of the report required under § 970.27(e) for ''de minimis'' demolitions, the Board of Commissioner's resolution approving the ''de minimis'' action) for that development or developments or portions thereof. The resolution must be signed and dated after all resident and local government consultation has been completed;
- Evidence that the application was developed in consultation with appropriate government officials as defined in § 970.5, including:
  - A description of the process of consultation with local government officials, which summarizes dates, meetings, and issues raised by the local government officials and the PHA's responses to those issues;
  - A signed and dated letter in support of the application from the chief executive officer of the unit of local government that demonstrates that the PHA has consulted with the appropriate local government officials on the proposed demolition or disposition;
  - Where the local government consistently fails to respond to the PHA's attempts at consultation, including letters, requests for meetings, public notices, and other reasonable efforts, documentation of those attempts;
  - Where the PHA covers multiple jurisdictions (such as a regional housing authority), the PHA must meet these requirements for each of the jurisdictions where the PHA is proposing demolition or disposition of PHA property;
- An approved environmental review of the proposed demolition or disposition in accordance with 24 CFR parts 50 or 58 for any demolition or disposition of public housing property covered under this part, as required under 24 CFR 970.13;
- A certification that the demolition or disposition application does not violate any remedial civil rights order or agreement, voluntary compliance agreement, final judgment, consent decree, settlement agreement, or other court order or agreement;
- Any additional information necessary to support the application and assist HUD in making determinations under this part.
  - Completion of demolition/ disposition or rescissions of approval.
- HUD will consider a PHA's request to rescind an earlier approval to demolish or dispose of public housing property, where a PHA submits a resolution from the Board of Commissioners and submits documentation that the conditions that originally led to the request for demolition or disposition have significantly changed or been removed.
- The Assistant Secretary will not approve any request by the PHA to either substitute units or add units to those originally included in the approved demolition or disposition application, unless the PHA submits a new application for those units that meet the requirements of this part.

HUD reviews demolition and disposition applications in accordance with the guidance in PIH Notice 2018-04. If a Public Housing Agency (PHA) is proposing to dispose of public housing property to allow for the development of other housing, the PHA should provide detailed information to the SAC about that future housing development (i.e., name of acquiring entity, number of ACC units, number of low-income housing units, number of market-rate units, etc.). Therefore, if the subject property is being considered for future residential housing development, at a minimum, Radon mitigation measures are required to be implemented in the future project design in accordance with HUD guidelines if the subject property will be developed for unrestricted residential land use.

Typically, a minimum of two (2) rounds of soil gas data should be collected to evaluate the vapor intrusion pathway. Two (2) rounds will begin to estimate temporal and seasonal variations at the site and other site-specific factors which may influence vapor migration. Since two rounds constitute a limited database, the maximum concentration detected should be used to evaluate potential risk. Based on these results, additional samples may be required depending on the source strength, plume movement, and how soil gas concentrations compare to screening levels. If soil gas samples exceed screening values and buildings are within one hundred (100) feet of the sample location for nonpetroleum vapor-forming chemicals and within thirty (30) feet of PHC vapor-forming chemicals, then sub-slab vapor samples and/or indoor air samples should be collected to further evaluate the vapor intrusion risk pathway.

Based on the exterior soil gas sampling analytical laboratory results obtained within the soil gas samples collected from SG-1 through SG-3 indicating elevated levels of (Benzene) above the applicable SCDHEC RBSLs for Inhalation of vapors, D3G recommends the following:

- Soil gas volatile chemical levels should be used to estimate the contribution of soil gas VI sources to indoor air levels. Confirmation sampling (*i.e.*, an additional or additional rounds) may need to be conducted to estimate the contribution from the environmental release. If soil gas samples exceed screening values and buildings are within one hundred (100) feet of the sample location for nonpetroleum vapor-forming chemicals and within thirty (30) feet of PHC vapor-forming chemicals, then sub-slab vapor samples and/or indoor air samples should be collected to further evaluate the vapor intrusion risk pathway. Therefore, based on the results of the EPA VISL calculator indicating calculated estimated site-specific Indoor Air Concentrations of Select VOC (Benzene) above the applicable USEPA VISL for Target Indoor Air Concentrations, D3G concludes that the elevated levels of Select VOC (Benzene) identified within the soil gas samples collected from SG-1 through SG-3 potentially represents a VIC to existing/future tenants within 2225 College Street as investigated during this Limited Phase II ESA investigation with further Tier 2 investigations warranted (ASTM E 2600-22). However, it should be noted, the USEPA VISL model is a conservative screening tool and does not account for building foundation type, size, soil gas entry rates, building exchange rates, soil type, porosity, moisture, vertical and/or lateral inclusion zones from the source and/or chemical volatilization from groundwater. Therefore, D3G recommends a quantitative sub-slab sampling (Point of Entry to Receptor) to be conducted at the subject property (prior to disposition) further outlined herein. The supplemental quantitative Tier II invasive Vapor Encroachment Screen (VES)/supplemental vapor intrusion risk-based screening assessment is to be conducted on the subject property for the identified VEC including but not limited to sub-slab soil vapor and indoor air quality sampling within the structures located within the area of SG-1 through SG-3 (2225 College Street) for Select VOC (Benzene).

  The vapor intrusion risk-based screening will be utilized to support and evaluate human health risk using supplemental individual subsurface data (e.g., sub-slab vapor and indoor air concentrations), which would consider the magnitude of the concentration exceedance of the USEPA VISLs as outlined within SCDHEC Quality Assurance Program Plan for the UST Management Division – Revision Number 4.0, dated July 2020. The supplemental investigation will be utilized as a baseline risk assessment of exposure to residential receptors, exposure pathways, toxicity of contaminants present at the site, further characterization of human health risks, impacts or risks to the environment and the further development of a site-specific CSM. In accordance with the Office of Solid Waste and Emergency Response (OSWER) Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Vapor Sources to Indoor Air – OSWER Publication 9200.2-2-154, dated June 2015, multiple lines of evidence are particularly important for supporting "no-further-action" decisions regarding the vapor intrusion pathway (e.g., pathway incomplete determinations) to reduce the chance of reaching a false-negative conclusion (i.e., concluding vapor intrusion does not pose unacceptable human health risk, when it poses an unacceptable human health risk).

Collecting and weighing multiple lines of evidence can also reduce the chance of reaching a false-positive conclusion (i.e., concluding vapor intrusion poses unacceptable human health risk, when it does not. On the other hand, parties may implement engineered exposure controls (Tier 4 mitigation in accordance with ASTM E 2600-22) for vapor intrusion, even though only limited lines of evidence or measurements may be available to characterize the overall vapor intrusion pathway. Seasonally variable conditions (e.g., moisture levels, depth to groundwater) can lead to seasonally variable concentrations and distributions of vapors in the vadose zone. Likewise, weather conditions can lead to time-variable contributions from vapor soil gas flux/intrusion (e.g., driving forces for vapor intrusion) and ambient air infiltration. Collectively, these processes cause soil vapor concentrations of vapor-forming chemicals to vary over time. An individual sample (or single round of sampling) would be insufficient to characterize seasonal variability, or variability at any other time scale. Because of variability, a soil gas/vapor sampling event, collected at a randomly chosen time, is insufficient information to estimate an average exposure. On the other hand, it is impractical to collect soil vapor samples continuously over a chronic exposure period (i.e., up to 30 years for a reasonable maximum exposure duration in a residence (EPA 2014a)), which would also entail deferring risk management decisions for a prolonged period while human exposures from vapor intrusion could occur unabated. Hence, current, and past practice has generally relied upon collecting multiple rounds of soil vapor samples for purposes of estimating long-term average (i.e., chronic) exposures and assessing human health risk. All else being equal, a longer collection sampling period for each individual sample would be expected to yield a more reliable basis for estimating long-term, time-average exposure than would one sample collection period conducted over a short sampling interval. Multiple sampling events generally are considered necessary to account for seasonal variations in climate/temperature and/or weather conditions that related risk management decisions are based upon a consideration of a reasonable maximum vapor intrusion conditions.

2.0 INTRODUCTION

On behalf of Columbia Housing, LLC (Client), D3G conducted a Limited Phase II ESA of the Arrington Manor property located at 2225 College Street in Columbia, South Carolina (subject property) on March 15, 2024. The purpose of the Limited Phase II ESA was to supplement the D3G Phase I ESA and to assess whether there has been a release of hazardous substances and/or petroleum products associated with the LUST incident involving one (1) 560-gallon abandoned diesel UST at levels that would exceed the Statewide non-site-specific criteria (*de minimis* levels).

The purpose of the Phase I ESA was to provide an appropriate inquiry into the previous ownership and uses of the subject property and identify RECs, which are the likely presence of any hazardous substances or petroleum products at the subject property under conditions that indicate an existing release, a past release, or a material threat of a release into structures (vapors), the ground (soils), groundwater, or surface water at the subject property. Based on the findings of the Draft Phase I ESA, dated November 15, 2023, the following RECs were identified in connection with the subject property:

- <u>On-site LUST/UST/VEC</u>
  Arrington Manor High Rise (Subject Property), located at the subject property, is identified as a LUST incident and UST facility in the EDR Report. According to the UST listing, the facility (Facility ID: 07323) is associated with one (1) 560-gallon abandoned diesel underground storage tank (UST). No information regarding the age of the UST was included in the EDR Report. According to the LUST listing (Facility ID #07323), a release of diesel was reported on December 20, 1991. Corrective action was initiated November 23, 1992, and a No Further Action letter was issued on January 13, 1993. D3G submitted a FOIA request with the South Carolina Department of Health and Environmental Control (SCDHEC) to obtain records regarding the adjacent LUST incident and UST facility. However, SCDHEC responded that no files were available for the on-site facility. Therefore, D3G requested that the Columbia Housing Authority provide any/all documentation related to the on-site UST facility and LUST incident. However, no information was available. Based on the lack of documentation for the adjacent LUST incident and UST facility, the adjacent facility is considered a REC, and a Vapor Encroachment Condition (VEC) currently exists on the subject property. Further investigation is warranted to further evaluate the identified VEC attributed/associated with the on-site LUST/UST.

3.0 SITE BACKGROUND

3.1 Site Description and Features

The subject property consists of one (1) six-story age-restricted apartment structure constructed in 1971. The subject property structure contains a total of fifty-eight (58) residential dwelling units and is situated on approximately 0.94 acres of land. Located within the apartment structure are laundry facilities, office areas, laundry facilities, a community room/kitchen, and mechanical areas. Exterior property improvements include sitting areas, landscaped regions, and asphalt parking areas. The subject property is serviced by electricity and municipally supplied water and sewer. The Sponsor is submitting this project through the HUD Special Applications Center (SAC), consisting of a Section 18 disposition application of the existing age-restricted apartment complex with no significant ground disturbing activities.

3.2 Physical Setting

3.2.1 Topography and Regional Surface Water

Located in Attachment 1 is a topographic map depicting subject property elevations and drainage patterns. Depth to groundwater fluctuates depending on hydrological and weather conditions. Groundwater was not encountered at an approximate depth of six (6) to seven (7) feet below ground surface within SB-1 through SB-3 during this Limited Phase II ESA.

Topography and Regional Surface Water	
ELEVATION (feet above mean sea level)	240-260
SLOPE	South-southeast
APPROXIMATE GROUNDWATER FLOW	South-southeast
REGIONAL SURFACE WATER	An intermittent tributary of the Congaree River is located approximately 0.09 miles to the south-southeast of the subject property and flows to the southwest and the Congaree River is located approximately two (2) miles to the west and flows to the southeast.
SOURCE - USGS Topographic Quadrangle – *Columbia North, South Carolina 2020*	

3.2.2 Soil Characteristics

According to the Natural Resources Conservation Service (NRCS) Web Soil Survey, accessed at http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx, the subject property consists of two (2) soil types: Oranegburg-Urban land complex and urban land. Oranegburg-Urban land complex does not meet hydric criteria. Urban land consists of nearly level to moderately sloping areas where more than 85 percent of the surface is covered by asphalt, concrete, buildings, or other impervious surfaces.

The following is a generalized description, provided to highlight the major subsurface strata encountered in the borings on-site. Soil Boring Logs should be reviewed for specific information at individual boring locations and are included in Attachment 4. The soil stratification shown on the Soil Boring Logs represents conditions only at the actual boring locations. Variations may occur and should be expected between boring locations. The stratification represents the approximate boundary between subsurface materials and the transition may be gradual.

In general, the borings encountered one (1) type of soil. No pattern was observed in the occurrence of soil type; therefore, the following data should not be used for spatial extrapolation of soil type. Following an initial one (1) foot of asphalt, the following stratums were observed:

Depth Ranges (ft bgs)	USCS	USCS
1 – 7'	CL	CLAY; trace sand; red with grey; dense; dry.

Note: Depth ranges are an overall range of the stratums observed and do not reflect the depth intervals for each specific boring location.

The locations of the soil borings are described within Section 4.4 of this document. No pattern was observed in the occurrence of soil type; therefore, the lithologic information should not be used for spatial extrapolation of soil type. A copy of the soil boring logs is included in Attachment 4.

3.2.3 Site Geology

The subject property lies within the Cape Fear/Eutaw Formations. The Cape Fear/Eutaw Formations developed during the Cretaceous period and consists of poorly sorted clayey sand and gravel deposited in delta-dominated fluvial- and restricted marine environments. Characterized by an abundance of smoky quartz gravel, feldspar, monazite, and garnet typically concentrated in placer deposits. Generally non-marine from North Carolina to central Georgia but contains shallow-water delta-front deposits in western Georgia.

3.3 Site History and Land Use

According to the reviewed subject property historical information, the subject property consisted of single-family residential from at least 1919 until construction of the existing age-restricted residential structure in 1971.

None of the accessed data depicts underground storage tanks (USTs) at the former structures; however, there exists the possibility that the former structures utilized underground or aboveground storage tanks (USTs/ASTs). No visual evidence of USTs (fill ports/vent pipes) or ASTs was observed during the subject property inspection. If ASTs or USTs were formerly located at the subject property, they should have been removed during the demolition of the structures.

D3G reviewed aerial photographs from 1938, 1943, 1951, 1955, 1964, 1966, 1971, 1981, 1983, 1994, 2006, 2011, 2015, and 2019. According to the reviewed information, the subject property was originally depicted as single-family residential properties from 1938, until prior to conversion to the existing land use as age-restricted residential in 1971. No environmental concerns were identified on the subject property based upon a review of the aerial photography.

D3G reviewed Sanborn Fire Insurance Maps from 1919, 1950, 1956, 1965, and 1969. It should be noted that the subject property is only partially depicted in the 1956 Sanborn Map. According to the reviewed information, the subject property was originally depicted as one (1) residential dwelling. Additional dwellings and associated outbuildings were constructed on the subject property prior to 1950 and remained unchanged through 1965. The subject property was not depicted on the 1969 Sanborn. No environmental concerns were identified on the subject property based upon a review of the Sanborn Fire Insurance Maps.

3.4 Adjacent Property Land Use

D3G reviewed aerial photographs from 1938, 1943, 1951, 1955, 1964, 1966, 1971, 1981, 1983, 1994, 2006, 2011, 2015, and 2019. According to the reviewed information, the adjacent properties have consisted of residential properties. No environmental concerns were identified on the adjacent properties based upon a review of the aerial photography.

D3G reviewed Sanborn Fire Insurance Maps from 1919, 1950, 1956, 1965, and 1969. Portions of the adjacent properties are not depicted on the 1919 and 1969 Sanborn. According to the reviewed information, the adjacent properties have consisted of undeveloped vacant lots and residential properties. No environmental concerns were identified on the adjacent properties based upon a review of the Sanborn Fire Insurance Maps.

3.5 Summary of Previous Assessments

The findings of the D3G Phase I ESA for the Arrington Manor property are discussed previously in Section 2.0 of this report.

4.0 WORK PERFORMED AND RATIONALE

4.1 Objective(s)

D3G conducted a Limited Phase II ESA at the subject property in compliance with ASTM E 1903-19 – *"Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process"*. The objective of this Phase II ESA is to determine if the RECs or risks related to HUD's toxics policy identified in the Phase I ESA have resulted in the presence of hazardous substances, pollutants, contaminants, petroleum/petroleum products, controlled substances and/or constituents thereof including but not limited to those within the scope of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) indicating an unacceptable risk under HUD's toxics policy at §50.3(i) in regard to unrestricted residential use criteria.

4.2 Data Quality Objectives

The Data Quality Objectives (DQOs) for a Phase II ESA is, at a minimum, to achieve reproducible chemical testing results for target analytes in samples of environmental media collected from locations relevant to the objectives of the assessment likely to have the highest concentration of target analytes. To be consistent with scientific inquiry, D3G formulated site-specific DQOs such that another Phase II Assessor would be able to reproduce the assessment and obtain consistent results. DQOs are site-specific, Area of Concern (AOC)-specific, and/or release area-specific goals developed to ensure that a sufficient quality and quantity of data are collected to support the decisions made during site characterization and to develop and refine the Conceptual Site Model (CSM).

Based on the developed DQOs, the following summarizes the Compounds of Potential Concern (COPCs) for each site media beneath the subject property. Additional inorganic compounds associated with background conditions will be considered in the risk analysis/exposure pathway(s) but are not considered COPCs:

Compounds of Potential Concern (COPC)
Subsurface Soils
COPCs: Select VOCs and PAHs
Groundwater
COPCs: Select VOCs and PAHs
Soil Vapor
COPCs: Select VOCs
Outdoor (ambient) Air
COPCs: Select VOCs

Select VOCs – Select Volatile Organic Compounds (VOCs) – Benzene, Toluene, Ethylbenzene, Xylenes, Naphthalene, MTBE, 1,2-Dichloroethane, and 1,2-dibromoethane – EPA Method 8260/8011 (groundwater and soil) and TO-15 (soil vapor)
Polycyclic Aromatic Hydrocarbons (PAHs)– EPA Method 8270
Select Volatile Organic Compounds [VOCs]—EPA Method TO-15 – Benzene, Toluene, Ethylbenzene, Xylenes, Naphthalene, MTBE, 1,2-Dichloroethane, and 1,2-dibromoethane

Based on these suspected and/or perceived conditions, the preliminary CSM developed for the subject property as part of this Phase II ESA includes the following potential exposure pathways:

Preliminary CSM	
Potential Exposure Pathway(s)	Populations
Ingestion of Subsurface Soil Particulates	Residential
	Construction Workers
Inhalation of Fugitive Dust	Residential
	Construction Workers
Dermal Contact with Subsurface Soil	Residential
	Construction Workers
Dermal Contact with Groundwater	Residential
	Construction Workers
Inhalation of Subsurface Vapor	Residential
	Construction Workers

As the subject property is serviced by a reticulated water supply, the exposure pathways between current/future on-site residents, construction/utility workers, and groundwater are not expected to be complete. The CSM validation is further discussed within Section 6.2 of this report.

4.3 Scope of Assessment

GROUND-PENETRATING RADAR (GPR) – FERROMAGNETIC/RADIODETECTION SURVEY

On March 15, 2024, East Coast Geophysics conducted a geophysical survey at the subject property identified at 2225 College Street in Columbia, SC. The survey was conducted utilizing a RD-7100+ ElectroMagnetic Line locator, a Fisher TW-6, Split-Box locator, and a GSSI SIR-4000 Ground Penetrating Radar (GPR) unit. The survey was conducted to evaluate the property for evidence of a UST with a reported diesel release in 1991, clean up in 1992, and NFA in 1993, and to pre-clear proposed soil boring locations.

Prior to the survey East Coast Geophysics inspected the survey area and the boiler room for evidence of an UST such as vent/fill pipes, asphalt patches and/or ground depressions. No evidence of a UST was observed on the property. The property was surveyed with the Fisher TW-6, split-box locator which detects large metal objects in the subsurface and is an effective tool for searching to UST's. The split-box gave no positive responses. The property was further surveyed with GPR, and no evidence of a UST was observed. The GPR and EM locator were used to identify subsurface utilities and pre-clear proposed soil boring locations.

In addition, the GPR Survey was utilized to determine the appropriate placement of the soil borings in relation to the identified RECs. For health and safety purposes, the GPR survey was conducted in the vicinity of the soil boring locations for the primary purpose of identifying existing conduit/utilities.

The GPR profiles were conducted using a Fisher TW-6 Split-Box locater, an RD 7100+ ElectroMagnetic Line Locater, and a GSSI SIR-4000 Ground Penetrating Radar (GPR) unit. GPR are impulse systems that transmit short duration EM pulses into the ground from an antenna near the surface. These EM pulses are reflected from interfaces with contrasting electrical properties back to the receiver section of the antenna connected to the control unit for processing and display. Contrasts in electrical properties of materials in the earth cause reflections of the radar signal. These reflections occur at different soil strata, soil/rock interfaces, rock/air interfaces (voids), fractures, manmade objects (rebar, conduit, metal casings), or any interface that can create a contrast in the dielectric properties. The technique operates on the principle of transmission, reflection, and detection of short-term duration electromagnetic pluses from a transducer (antenna with transmitting and receiving electronics) that is moved across the concrete/ground surface.

SUBSURFACE INVESTIGATION

Based on the location of the LUST incident involving one (1) 560-gallon abandoned diesel UST, D3G advanced three (3) soil borings (SB-1 through SB-3) at the subject property to determine if site soils and groundwater (if encountered) have been adversely affected by the LUST incident involving one (1) 560-gallon abandoned diesel UST.

Borings were advanced to an approximate depth of six (6) to seven (7) feet below ground surface (bgs) to locate a water bearing zone with sufficient recharge for groundwater sample collection. Soil borings were advanced using a truck-mounted Geoprobe® 5410DT direct-push technology.

Soil was collected (US EPA grab and 5035 sampling methodologies) continuously with disposable clear acetate liners and the soil was screened in the field utilizing a photoionization detector (PID) to indicate the presence of total photoionizable vapors (TPVs)/VOCs.

VAPOR ENCROACHMENT CONDITON ASSESSMENT

To evaluate the VEC from the identified RECs at the subject property associated with the LUST incident involving one (1) 560-gallon abandoned diesel UST, D3G conducted a Vapor Encroachment Screen (VES)/risk-based screening assessment (Tier II Invasive Screen) on the subject property including but not limited to soil gas sampling on the subject property. The vapor intrusion risk-based screening was utilized to support and evaluate human health risk using soil gas data, which would consider the magnitude of the concentration exceedance of the soil gas screening levels and site-specific risk management benchmarks.

The Tier II Invasive Screen/vapor intrusion condition assessment was undertaken in accordance with the Environmental Protection Agency (EPA) Publication 9200.2-154 – Office of Solid Waste and Emergency Response (OSWER) Final Guidance for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Sources to Indoor Air, dated June, 2015; Standard Operating Procedure (SOP), Technical Bulletin No. 93-660 dated September 21, 1993; USEPA, Environmental Response Team, Soil Gas Sampling, SOP #2042 dated June 1, 1996 (revised May 14, 2014); USEPA Operating Procedure – Soil Gas Sampling dated, May 14, 2014; ASTM D7663 – Standard Practice for Active Soil Gas Sampling in the Vadose Zone for Vapor Intrusion Evaluations, Interstate Technology Regulatory Council (ITRC) Vapor Intrusion Pathway: A Practical Guideline dated January, 2007; the SCDHEC South Carolina Risk-Based Corrective Action for Petroleum Releases, dated May 15, 2001; and the SCDHEC Quality Assurance Program Plan for the Underground Storage Tank Management Division – February 2020.

The scope of the vapor intrusion condition assessment was comprised of:

- The collection of three (3) representative soil gas samples (SG-1 through SG-3) at the subject property using 1-Liter stainless steel Summa® canisters equipped with a five (5)-minute flow controller.
- The collection of one (1) representative outdoor (ambient) air sample (OA-1) at the subject property using 1-Liter stainless steel Summa® canisters equipped with a five (5)-minute flow controller.

SOIL GAS VAPOR POINTS

D3G advanced three (3) exterior soil gas borings at the subject property for the installation of deep subsurface soil gas samples (SG-1 through SG-3) in accordance with U.S. Environmental Protection Agency Operating Procedure – Soil Gas Sampling dated, May 14, 2014, ASTM D7663 – Standard Practice for Active Soil Gas Sampling in the Vadose Zone for Vapor Intrusion Evaluations; the SCDHEC South Carolina Risk-Based Corrective Action for Petroleum Releases, dated May 15, 2001; and the SCDHEC Quality Assurance Program Plan for the Underground Storage Tank Management Division, dated February 2020.

Soil gas borings SG-1 through SG-3 were advanced and installed at a depth of five (5) feet below ground surface using truck-mounted Geoprobe® 5410DT, direct-push technology. D3G collected one (1) soil gas sample representative of the subsurface vapor quality from each soil gas sampling point (SG-1 through SG-3) within the subsurface strata using a 1-Liter stainless steel Summa® canister via ¼" Nylaflow Tubing with soil gas drawn into the canister by pressure equilibration (approximate sampling time of five minutes).

Subsurface soils were collected (US EPA grab and 5035 sampling methodologies) continuously with disposable clear acetate liners and were screened in the field with a photoionization detector (PID) to indicate the presence of VOCs.

D3G oversaw the subcontractor install a sand pack to minimize disruption of airflow to the sampling tip. A PVC tremie-pipe was required for all soil gas wells to avoid bridging or segregation during placement of the sand pack and bentonite seal. The sand pack was approximately 1-foot thick. The probe tip was placed midway in the sand pack with 3-feet of dry granular bentonite on top of the sand pack. Following the dry bentonite, the subcontractor filled the borehole to the surface with hydrated bentonite. The bentonite was hydrated in a container at the surface and then slowly poured into the borehole. The purpose of the dry granular bentonite between the sand pack and the hydrated bentonite was to prevent hydrated bentonite from infiltrating the sand pack. A down-hole rod was used to support the well tubing in the borehole. The support rod ensured that the probe tip was placed at the proper depth. The support rod was constructed to avoid possible cross contamination or ambient air intrusion. D3G installed the sampling point within the soil gas well constructed by the subcontractor.

The summa canister samples were submitted to a South Carolina accredited laboratory under appropriate chain-of-custody procedures and analyzed for Select VOCs via EPA Method TO-15.

OUTDOOR AIR VAPOR SAMPLING

Outdoor air concentration data is useful in correlating potential air contaminant contributions and/or baseline air concentrations from ambient air sources. Therefore, EPA generally recommends collecting ambient air sample(s) using similar sampling and analysis methods, whenever soil gas samples are collected. Normally, EPA recommends one or two outdoor air sample locations to characterize the conditions of the subject property. Additional outdoor air samples may be required if the investigation warrants additional environmental concerns. EPA also recommends that sample locations be designed to characterize representative conditions in the absence of site-related subsurface contamination (e.g., avoid collecting ambient air samples near locations of known or suspected chemical release(s), including any atmospheric releases from remediation equipment). Observable potential outdoor sources of pollutants (e.g., air emissions from nearby commercial or industrial facilities) were recorded.

D3G collected one (1) outdoor (ambient) air sample from upwind of the subject property and away from any potential VOC sources to account for potential background influences. The sample was submitted to a South Carolina accredited laboratory under appropriate chain-of-custody procedures and analyzed for Select VOCs via EPA Method TO-15.

PRELIMINARY SCREENING

Preliminary screening of the sampling area(s) (ambient air) was conducted through use of a PID. Screening equipment was checked and calibrated according to manufacturers' specifications. Additional factors documented during the preliminary screening included outdoor temperature, wind speed/direction, humidity, and barometric pressure.

SAMPLING PROCEDURES

Laboratory prepared sampling apparatus, sample collection, and documentation was performed as follows:

- Use of an evacuated Summa® passivated (or equivalent) stainless-steel canister to collect the sample. The canister was provided by the laboratory, along with a flow controller equipped with a gauge. The flow controller was pre-calibrated by the laboratory for the desired flow rate or duration of sample collection. The sampling flow rate was less than 0.2 liter per minute (lpm).
- The scheduled duration of sample collection took five (5) minutes for soil gas and outdoor (ambient) air with the canister and flow controller shipped to the laboratory from which the canister was rented under proper chain-of-custody protocol the same day.

The final canister vacuum was less than atmospheric pressure to ensure that a relatively constant flow rate was maintained for the entire sampling period. Prior to the commencement of sampling activities, a private utility mark-out was conducted at the subject property within the proposed boring locations.

Drilling and sampling operations were conducted in accordance with 29 CFR 1910.120. Prior to subsurface drilling activities, the drilling subcontractor notified the utility service alert (811 of South Carolina) in accordance with local practices. Equipment decontamination, sample collection, field documentation, sample custody and laboratory analyses were performed in general accordance with methods as prescribed within the applicable guidance documents presented in Section 10.0.

Subsurface soil, soil gas, and outdoor (ambient) air samples collected during this Limited Phase II ESA investigation were analyzed by a South Carolina accredited laboratory for the following:

[1]Sampling Parameters						
Sample ID.	Area(s) of Concern (AOC)	Select VOCs[2] EPA Method 8260/8011		PAHs[3] EPA Method 8270		Select VOCs[4] TO-15
		SOIL	GROUNDWATER	SOIL	GROUNDWATER	SOIL VAPOR
SB-1	On-site LUST/UST	✓	✓	✓	✓	
SB-2		✓	✓	✓	✓	
SB-3		✓	✓	✓	✓	
SG-1						✓
SG-2						✓
SG-3						✓
OA-1	Ambient air					✓
TOTAL SAMPLES		3	0	3	0	4

[1]SCDHEC "South Carolina Risk-Based Corrective Action for Petroleum Releases," dated May 15, 2001 & R.61-68 Water Classifications and Standards, dated June 27, 2014.
[2]= Select Volatile Organic Compounds [VOCs] – EPA Method 8260 – Benzene, Toluene, Ethylbenzene, Xylenes, Naphthalene, MTBE, 1,2-Dichloroethane, and 1,2-dibromoethane
[3]= Polycyclic Aromatic Hydrocarbons [PAHs] – EPA Method 8270
[4]= Select Volatile Organic Compounds [VOCs]—EPA Method TO-15 – Benzene, Toluene, Ethylbenzene, Xylenes, Naphthalene, MTBE, 1,2-Dichloroethane, and 1,2-dibromoethane

In addition, one (1) trip blank sample for EPA Method 8260 and one (1) trip blank sample for EPA Method TO-15 was submitted for laboratory analysis of Select VOCs for QA/QC purposes. Additionally, all manufacturer specifications were adhered to for operation and maintenance of field sampling monitoring equipment.

Changes to Scope of Work:
Changes to the scope of work were implemented based upon field observations and limitations that were observed and/or encountered during field activities and are discussed below:

- D3G originally proposed to install soil gas borings (SG-1 through SG-3) at a depth of ten (10) feet bgs. However, since refusal was encountered at seven (7) feet bgs at this sampling location, D3G decided to install the soil gas sampling points at five (5) feet bgs to keep a consistent sampling media depth.

- A temporary groundwater sampling point was initially proposed to be installed within soil borings SB-1 through SB-3 on March 15, 2024. However, a static groundwater table was not encountered during borehole advancement of soil borings SB-1 through SB-3. Several attempts were made to recover available groundwater from within an underlying water-bearing stratum without success. Borehole advancement was terminated (maximum depth) at depths of six (6) to seven (7) feet bgs, at which, refusal was encountered within very dense, low plasticity CLAY [CL] stratums; therefore, no groundwater was collected from soil borings SB-1 through SB-3 for laboratory analysis.

4.4 Exploration, Sampling and Test Screening Methods

4.4.1 Soil Investigation

On March 15, 2023, D3G supervised the advancement of three (3) soil borings (SB-1 through SB-3) using hydraulically driven direct-push sampling equipment (truck-mounted Geoprobe® 5410DT). The direct-push sampling equipment was used and operated in general accordance with EPA Expedited Site Assessment Tools for Underground Storage Tank Sites: A Guide for Regulators (EPA Document #510-B-97-001), dated March 1997 and the EPA Office of Solid Waste and Emergency Response – Groundwater Sampling and Monitoring with Direct Push Technology (EPA Document #540-R-04-005), dated August 2005. The number and final placement of the boring locations were based on conditions observed in the field (i.e., underground utility locations, terrain, and drill rig access). Details pertaining to the final placement of each soil boring are listed in the following table:

Soil Boring ID	Location
SB-1	Advanced approximately 35 feet north of the 2225 College Street residential structure to address the On-site LUST/UST.
SB-2	Advanced approximately 25 feet north of the 562 2225 College Street residential structure to address the On-site LUST/UST.
SB-3	Advanced approximately 26 feet west of the 2225 College Street residential structure to address the On-site LUST/UST.

Soil borings were advanced by The Probing Company of Decatur, Georgia. Site photographs illustrating soil boring locations and advancement are included on Attachment 3.

Continuous soil samples were collected using 4-foot-long samplers fitted with new, clear acetate liners. Soil samples were screened in the field for organic vapors using a PID. PID readings and lithology descriptions for each subsurface soil sample were recorded within a field logbook. Upon retrieval, the soil was screened in the field, logged, and classified according to the Unified Soil Classification System (USCS). Soil boring logs were generated for each soil boring and are included in Attachment 4.

PID readings were collected from soil borings SB-1 through SB-3. PID measurements ranged from 0.0 to 0.2 ppm within SB-1 through SB-3. No evidence of contamination (staining/odors) was observed during the advancement of soil borings SB-1 through SB-3 during this Limited Phase II ESA investigation.

Based on field observations indicating the absence of olfactory evidence of contamination and PID readings significantly below 50 ppm within soil boring samples, soil cuttings generated from each boring during borehole advancement were placed back within their appropriate borehole and capped to the surface with a layer of grout/asphalt patch. Site photographs illustrating borehole abandonment are included in Attachment 3.

4.4.2 Groundwater Investigation

Temporary groundwater sampling points were initially proposed to be installed within soil borings (SB-1 through SB-3) using hydraulically driven direct-push sampling equipment (truck-mounted Geoprobe® 5410DT) on March 15, 2024. However, during borehole advancement, no observed water bearing zone was observed at depths measured at six (6) to seven (7) feet bgs prior to encountering refusal within very stiff, low plasticity CLAY [CL] stratum. The USEPA *Technical Guide for Addressing Petroleum Vapor Intrusion at Leaking Underground Storage Sites*, dated June 2015, states that for each building within the lateral inclusion zone, samples should be collected as necessary to determine the vertical separation distance. However, additional investigation is generally unnecessary if the distance to contamination is greater than six (6) feet for dissolved contamination beneath buildings of any size.

D3G concludes that any potential or perceived groundwater contamination attributed to the LUST incident involving one (1) 560-gallon abandoned diesel UST is unlikely based on the subsurface conditions encountered as part of this Limited Phase II ESA subsurface investigation. Therefore, a VEC is unlikely to exist attributed to the groundwater exposure pathway beneath the subject property within the areas of SB-1 through SB-3 as investigated as part of this Limited Phase II ESA. The preliminary CSM developed in Section 4.0 is considered validated.

4.4.3 Vapor Encroachment Condition Assessment

Soil Gas Sampling:
On March 15, 2024, D3G supervised the installation of three (3) temporary soil gas sampling points (SG-1 through SG-3) at the subject property. The three (3) soil gas samples were collected at the locations presented in the following table. The soil gas vapor sample locations are depicted on the Site Plan included in Attachment 2.

Sample ID	Sample Location
SG-1	Advanced approximately 35 feet north of the 2225 College Street residential structure to address the On-site LUST/UST.
SG-2	Advanced approximately 25 feet north of the 562 2225 College Street residential structure to address the On-site LUST/UST.
SG-3	Advanced approximately 26 feet west of the 2225 College Street residential structure to address the On-site LUST/UST.

The temporary soil gas points were installed utilizing Nylaflow tubing and a stainless-steel soil vapor implant at a depth of five (5) feet bgs for the collection of deep soil vapor. No evidence of contamination was observed during the advancement of soil gas points SG-1 through SG-3 during this Limited Phase II ESA investigation.

The stainless-steel soil vapor implant was installed and anchored at the bottom of each soil gas sampling point at a depth of five (5) feet bgs. Clean Nylaflow tubing was attached to the vapor implant to the surface. Approximately three (3) volumes, at minimum, of the Nylaflow tubing was purged from the sampling locations with a 60-cc syringe prior to attaching the tubing to a flow regulator (pre-set by the analytical laboratory for a five-minute sampling interval) and a certified pre-cleaned 1-Liter SUMMA® canister. Following sample collection, a PID was used to measure the total VOC concentrations within each soil gas sampling point and is described below.

Gas field screening was conducted following temporary gas point installation, using a calibrated PID. PID measurements were recorded on the Soil Vapor Sampling Logs. Field screening readings were obtained by connecting the meter's tubing to the monitoring port being sampled and opening the monitoring port valve. Sampling was continued until sufficient stabilized concentrations were observed. PID readings taken from SG-1 through SG-3 ranged from 0.0 to 0.6 ppm after stabilization. No olfactory evidence of contamination was observed during the soil gas sampling point installation of SG-1 through SG-3.

In addition, prior to sample collection, D3G performed a leak test [shut-in test] to evaluate whether a good seal was established in the sampling train and the sampling port. A shut-in test involves assembling the sampling train and, leaving the canister valve in the closed position, applying a vacuum to the sampling line with a hand pump. A vacuum gauge, attached to the pump or connected to the line with a "T" fitting, is observed for at least one minute. If a loss of vacuum is observed, the fittings are adjusted until the vacuum does not noticeably dissipate. After approximately one (1) minute of the applied vacuum, a loss in pressure was not observed within soil gas points SG-1 through SG-3.

Outdoor (Ambient) Air:
Outdoor (ambient) air sampling was completed on March 15, 2024, and was collected concurrently with the soil gas samples. The location of the outdoor (ambient) air sample is presented in the following table. The outdoor (ambient) air sample location is depicted on the Site Plan included in Attachment 2.

Sample ID	Sample Location
OA-1	OA-1 was placed approximately 33 feet east of the 2225 College Street residential structure.

The representative outdoor air sample was placed in an area that would minimize bias towards obvious sources of volatile chemicals and provide accurate results of background concentrations of chemicals of concern (COCs).

The sample was collected for a five (5) minute period with a five-minute flow regulator (pre-set by the analytical laboratory) using a certified pre-cleaned 1-Liter SUMMA canister. Temperature readings were recorded at the beginning and the completion of the five-minute sampling period. The provided canister label was completed to record the sample ID and location. Prior to the commencement of sampling, all canister and flow meter connections were verified for tightness. A reading was taken continuously over an approximate one (1) minute purging period to determine a stable concentration. The reading taken from OA-1 was measured at 0.0 ppm, after observed stabilization. Site photographs illustrating sampling equipment setup are included in Attachment 3.

4.5 Chemical Analytical Methods

Subsurface soil, soil gas, and outdoor (ambient) air samples were collected and analyzed in general accordance with requirements set forth within the SCDHEC R.61-71 – South Carolina Well Standards, Effective Date: April 26, 2002; Sampling of Wells and Devices Used for Ground-Water Quality Investigations (ASTM D6771); and the SCDHEC Quality Assurance Program Plan for the Underground Storage Tank Management Division, revised February 2020. Subsurface soil, soil gas, and outdoor (ambient) air analysis completed during this Limited Phase II ESA included the following:

Subsurface Soil:
One (1) unsaturated (subsurface) soil sample was collected from just above the capillary fringe within soil borings SB-1 (5-7'), SB-2 (4-6'), and SB-3 (4-6'), and analyzed for Select VOCs via EPA Method 8260/8011 and PAHs via EPA Method 8270E-SIM.

Subsurface soil samples were collected above the capillary fringe, since contamination is typically found in soil moisture above the capillary fringe, which increases with depth, resistance to downward movement of contamination will be increased and some constituents will spread laterally and accumulate above the saturated media. Therefore, it was suspected that the deeper the soil samples were collected (closer to suspected groundwater), the more likely it would be to encounter potentially contaminated media even though refusal was encountered before groundwater was observed.

Soil samples were collected with nitrile gloves and placed in clean laboratory provided glassware. The soil samples were sealed, labeled, and placed in coolers with ice and delivered to Pace National – Mt. Juliet, Tennessee location, under proper chain-of-custody protocol. A copy of the soil laboratory analytical report is included in Attachment 7.

Soil Gas and Outdoor (Ambient) Air:
One (1) soil gas sample was collected from temporary soil gas sampling points SG-1 through SG-3 as well as one outdoor (ambient) air sample (OA-1) and analyzed for Select VOCs via EPA Method TO-15.

Soil gas samples, representative of the air quality within the vadose zone located beneath the subject property, were collected into the 1-Liter stainless steel Summa® canisters via ¼" Nylaflow tubing with the soil gas drawn into the canister by pressure equilibration via a flow regulator calibrated for a sampling time of approximately five (5) minutes. Sample collection did not exceed 0.2 liters per minute. Soil gas samples were sealed, labeled, and placed in padded cardboard boxes and delivered to Pace National – Mt. Juliet, Tennessee location, under proper chain-of-custody protocol. A copy of the soil gas and outdoor (ambient) air sample laboratory analytical report is included in Attachment 7.

4.6 Evaluation Criteria

Subsurface Soil:
Subsurface soil samples analyzed for Select VOCs and PAHs were compared to the following:

- SCDHEC Risk-Based Screening Levels for Sandy Soils set forth in the South Carolina Risk Based Corrective Action for Petroleum Releases, revised February 2020 - Table D3 - RBSLs for Sandy Soil determined based on groundwater RBSLs; and

- United States Environmental Protection Agency (USEPA) Regional Screening Levels (RSLs) for Resident Soil (TR=1E-06, THQ=0.1), dated November 2023.

Soil Gas and Outdoor (Ambient) Air:
According to the SCDHEC Quality Assurance Program Plan for the Underground Storage Tank Management Division, SCDHEC determines risk based on the exposure pathways, and outlines two specific types: Direct and Indirect. SCDHEC defines them as:

- Direct Exposure Pathway is an exposure pathway where the point of exposure is at the source without a release to any other medium (for example, inhalation of vapors or dermal contact with free product).

- Indirect Exposure Pathway is an exposure pathway with at least one intermediate release to any media between the source and the point of exposure (e.g., leaching of COCs from soil to groundwater).

Therefore, D3G compared the soil gas and outdoor ambient air results to one (1) or more of the following:

- SCDHEC Risk-Based Screening Levels for Inhalation of Vapors, set forth in the South Carolina Department of Health and Environmental Control, dated July 2020 – Table D5 – Risk Based Screening Levels (RBSLs) for Inhalation of Vapors;

- USEPA VISLs – Target Indoor Air Concentration (TR=1E-06, THQ=0.1), dated November 2023;

- USEPA VISLs for Target Sub-Slab and Near-source Soil Gas Concentrations (TR=1E-06, THQ=0.1), dated November 2023; and

- USEPA Regional Screening Levels set forth in the EPA RSL for Resident Ambient Air Table (TR=1E-06, THQ=0.1), dated November 2023.

In South Carolina, unacceptable human exposure is indicated when chemical levels represent cancer risks greater than 10^{-6} or a HQ greater than one pursuant to the SCDHEC Quality Assurance Program Plan for the Underground Storage Tank Management Division guidance, effective July 1, 2013. The Risk-Based Screening Levels (RBSLs) for soil, groundwater, and vapor were developed to evaluate continued exposure related to the direct contact, ingestion, and inhalation pathways. In general, the U.S. EPA considers unacceptable human exposures as occurring when chemical levels result in cancer risks greater than 10^{-4} to 10^{-6} or a HQ of one for noncancer effects (U.S. EPA, 2015). As many of the sites potentially have had contamination for multiple decades and complete remediation may take additional months to years, people may have had unacceptable exposure for an extended period. To address this potential exposure, RBSLs are necessary to ensure that when unacceptable exposures are identified, they are stopped as soon as possible. This is especially important when short-term exposure could result in health effects, such as in the case of developmental toxicants or mutagenic carcinogens. In addition, the U.S. EPA VI site guidance includes the need for prompt action due to human health risks at certain VI sites (U.S. EPA, 2015). Specifically, the U.S. EPA VI Guidance states: EPA has emphasized the importance of interim actions and site stabilization in the RCRA corrective action program to control or abate "ongoing risks" to human health and the environment while site characterization is underway or before a final remedy is selected (see the Federal Register of May 1, 1996 [61 FR 19446]). Interim actions encompass a wide range of institutional and physical corrective action activities to achieve stabilization and can be implemented at any time during the corrective action process. EPA recommends that interim actions, including PEM (presumptive mitigation), be employed as early in the corrective action process as possible, consistent with the human health and environmental protection objectives and priorities for the site. EPA recommends that, as further information is collected, program implementers continue to look for opportunities to conduct additional interim response action.

Copies of the applicable SCDHEC RBSLs, USEPA VISLs, and USEPA RSLs specific to this Limited Phase II ESA investigation are included in Attachment 6.

5.0 PRESENTATION AND EVALUATION OF RESULTS

5.1 Geophysical & Electromagnetic Survey Investigation

East Coast Geophysics reported to the Arrington Manor property in Columbia, South Carolina (subject property) on March 15, 2024, to perform a geophysical and ferromagnetic survey within the immediate vicinity of the reported UST with a diesel release in 1991, clean up initiated in 1992, and No Further Action Letter in 1993.

Prior to the survey East Coast Geophysics inspected the survey area and the boiler room for evidence of an UST such as vent/fill pipes, asphalt patches and/or ground depressions. No evidence of a UST was observed on the property. The property was surveyed with the Fisher TW-6, split-box locator which detects large metal objects in the subsurface and is an effective tool for searching for USTs. The split-box gave no positive responses within the area of the 560-gallon abandoned diesel UST.

Based on the results of the Geophysical/Ferromagnetic Survey within the immediate vicinity of the 560-gallon abandoned diesel UST, in order to identify a reported exterior existing orphan UST and associated ancillary piping system(s),no evidence of an UST was observed, there were some apparent disturbed soils in the area where borings were pre-cleared but no definitive evidence of a tank grave was observed.

The location of the Geophysical Survey Investigation is depicted on the Area of Concern Location included in Attachment 2 and a copy of the findings provided by East Coast Geophysics is included in Attachment 10 of this document.

5.2 Subsurface Conditions

The table below summarizes the total boring depths, depths to groundwater, and depths at which soil samples were obtained for laboratory analysis. A Site Plan depicting soil boring locations is in Attachment 2.

Boring Depth Summary				
Boring ID	Total Depth (ft. bgs)	Approximate Distance from Closest Building (in ft.)	Depth to Groundwater (ft. bgs)	Soil Sampling Depths (ft. bgs)
SB-1	7'	35'	N/A	(5-7')
SB-2	6'	25'	N/A	(4-6')
SB-3	6'	26'	N/A	(4-6')

Notes: Distances were measured from the residential building on site.

The table below summarizes the total boring depths, distance from building, screened intervals, and PID measurements for each soil vapor sample that was obtained for laboratory analysis. A Site Plan depicting soil gas boring locations is in Attachment 2.

Soil Gas Implant Summary				
Boring ID	Total Depth (ft bgs)	Approximate Distance from Closest Building (in ft.)	Screened Interval (ft bgs)	PID Measurements in parts per million (ppm)
SG-1	5’	35’	4’ to 5’	0.0
SG-2	5’	25’	4’ to 5’	0.0
SG-3	5’	26’	4’ to 5’	0.6

5.3 Subsurface Soil Sampling Analytical Results

Field Observations:
No visual or olfactory evidence of soil contamination (free product, staining and/or odor) was observed during the advancement of soil borings SB-1 through SB-3. PID readings taken during the soil screening process ranged from 0.0 to 0.2 ppm during this Limited Phase II ESA investigation.

Select VOCs:
No concentrations of Select VOCs analyzed within subsurface soil samples collected from SB-1 through SB-3 were identified above their respective laboratory reporting limits, above their applicable most stringent SCDHEC RBSLs for soils, and/or the USEPA RSLs for Resident Soil during this Limited Phase II ESA investigation.

PAHs:
No concentrations of PAHs analyzed within subsurface soil samples collected from SB-1 through SB-3 were identified above their respective laboratory reporting limits, above their applicable most stringent SCDHEC RBSLs for soils and/or the USEPA RSLs for Resident Soil during this Limited Phase II ESA investigation.

The laboratory analytical report with subsurface soil sampling results is included in Attachment 7.

5.4 Soil Gas Vapor Sampling Analytical Results

Field Observations:
No evidence of contamination (petroleum/non-petroleum odors) was observed during the advancement of soil gas borings SG-1 through SG-3. PID readings taken during soil screening and temporary soil gas probe monitoring prior to sampling SG-1 through SG-3 ranged from 0.0 to 0.6 ppm during this Limited Phase II ESA Investigation.

Select VOCs:
Elevated concentrations of Select VOC (Benzene) analyzed within the soil gas samples collected from soil gas sampling point SG-1 through SG-3 was identified above its respective laboratory reporting limits and above their applicable USEPA Sub-Slab and Near Source Soil Gas VISLs during this Limited Phase II ESA investigation.

All other concentrations of Select VOCs analyzed within soil gas samples collected from SG-1 through SG-3 were detected below their applicable laboratory reporting limits and/or below their applicable USEPA Sub-Slab and Near Source Soil Gas VISLs during this Limited Phase II ESA investigation.

Laboratory analytical reports with soil gas sampling results are included in Attachment 7. The soil gas sampling analytical results table is presented below.

Soil Gas Sampling Analytical Results Table - Reported in micrograms per cubic meter (ug/m3)									
Method	Analyte	Units	USEPA Sub-Slab and Near Source Soil Gas VISLs	SG-1		SG-2		SG-3	
				Result	RDL	Result	RDL	Result	RDL
TO-15	BENZENE	ug/m3	12	22.9	0.64	51.7	0.64	19.2	0.64
TO-15	ETHYLBENZENE	ug/m3	37.4	10.3	0.87	23.8	0.87	12.4	0.87
TO-15	M&P-XYLENE	ug/m3	348	32.9	1.73	63.3	1.73	36.9	1.73
TO-15	O-XYLENE	ug/m3	248	14.4	0.87	31.6	0.87	15.4	0.87
TO-15	TOLUENE	ug/m3	17400	84.8	1.88	360	1.88	242	1.88

USEPA Vapor Intrusion Screening Levels (VISLs) for Target Sub-Slab and Near Source Soil Gas Concentration (TR=1E-06, THQ=0.1), dated November 2023
Bolded concentrations indicate de minimis concentrations
Shaded concentrations indicate elevated concentrations

5.5 Outdoor (Ambient) Air Sampling Analytical Results

Field Observations:
No olfactory or visual evidence of contamination (petroleum/non-petroleum odors) was observed during the placement of the outdoor (ambient) air sample (OA-1). PID readings of the outdoor (ambient) air, prior to soil gas sampling, was 0.0 ppm during this Limited Phase II ESA Investigation.

Select VOCs:
An elevated concentration of Select VOC (Benzene) analyzed within the outdoor (ambient) air sample collected from outdoor (ambient) air sampling point OA-1 was identified above its respective laboratory reporting limits and above their applicable SCDHEC RBSLs for Inhalation of vapors during this Limited Phase II ESA investigation.

Laboratory analytical reports with outdoor (ambient) air sampling results are included in Attachment 7. The outdoor (ambient) air sampling analytical results table is presented below:

Outdoor (Ambient) Air Results Table - Reported in micrograms per cubic meter (ug/m3)						
Method	Analyte	Units	RBSLs for Inhalation of vapors	OA-1		
				Result	Qualifier	RDL
TO-15	BENZENE	ug/m3	0.36	0.87		0.64
TO-15	ETHYLBENZENE	ug/m3	1.1	0.88		0.87
TO-15	M&P-XYLENE	ug/m3	100	2.49		1.73
TO-15	O-XYLENE	ug/m3	100	0.89		0.87
TO-15	TOLUENE	ug/m3	5200	23.6		1.88

SCDHEC Risk-Based Screening Levels for Inhalation of Vapors, set forth in the South Carolina Department of Health and Environmental Control, dated July 2020 – Table D5 – Risk Based Screening Levels (RBSLs) for Inhalation of Vapors
Bolded concentrations indicate de minimis concentrations
Shaded concentrations indicate elevated concentrations

A Reporting Limit (RL or RDL) is the limit of detection for a specific target analyte for a specific sample after any adjustments have been made for dilutions or percent moisture. Some state regulatory programs require a laboratory to prove it can reliably "see" down to its RL by setting the RL at the lowest point on the calibration curve. In contrast, the Method Detection Limit or MDL is lower than the RL (often much lower) and is a *statistical calculation*. Since the MDL is below the point of calibration, results reported down to the MDL are not reliable and must be qualified as estimated values and, as such, carry a "J" qualifier designation.

5.6 Vapor Intrusion Screening Level [VISL] Calculator

The primary objective of risk-based screening is to identify sites or buildings unlikely to pose a health concern through the groundwater to indoor air vapor intrusion pathway. Generally, at properties where subsurface concentrations of vapor-forming chemicals, such as those in groundwater or “near source” soil gas, fall below the recommended screening levels (i.e., VISLs), no further action or study is warranted. This condition is generally true so long as the exposure assumptions match those accounted for in the calculations, and the site fulfills the conditions and assumptions of the generic conceptual model underlying the screening levels. Similarly, the results of risk-based screening can help the data review team identify areas, buildings and/or chemicals that can be eliminated from further assessment.

Subsurface vapor intrusion to indoor air from volatile compounds in sub-surface media is a potentially major exposure pathway. The USEPA VISLs for Near-source Soil Gas and USEPA VISLs for Target Indoor Air Concentrations address residential and commercial/industrial exposure scenarios and may be used for screening contaminants in indoor air. The air screening levels for volatile chemicals also have potential applications for screening soil gas data when used in concert with an appropriate attenuation factor and it is recommended that screening assessments evaluate the default attenuation factor of 0.03 for sub-slab soil gas and "near-source" exterior soil gas, released in 2015 by USEPA.

Based on the laboratory analytical results indicating elevated concentrations of Select VOC constituent (Benzene) identified within the soil gas sample collected from SG-1 through SG-3 above the applicable USEPA Target Sub-Slab and Near-source Soil Gas VISLs during this Limited Phase II ESA, D3G utilized the USEPA VISL Calculator to determine site-specific calculated Target Indoor Air Concentrations. The VISL calculator identifies chemicals that are sufficiently volatile and toxic to warrant an investigation of the soil gas intrusion pathway when they are present as subsurface contaminants.

D3G input the elevated soil gas sampling analytical data and the recommended default attenuation factor for soil gas (0.03) into the USEPA VISL calculator to further evaluate calculated site-specific indoor air concentrations. After calculating estimated site-specific Target Indoor Air Concentrations from the soil gas analytical data, the estimated Target Indoor Air Concentrations were compared against the USEPA Resident Target Indoor Air VISLs, to determine if the identified soil gas concentrations will be detrimental to the residential structure indoor air and thus, pose a threat to the environment and to the health of existing or future tenants.

The calculated estimated site-specific indoor air concentrations compared to the applicable USEPA VISLs are illustrated in the table below:

EPA VISL Comparison to Calculated Site Indoor Air Concentrations Reported in micrograms per cubic meter [ug/m^3]				
Analyte	RBSLs for Inhalation of vapors	Calculated Estimated Indoor Air Concentrations		
		SG-1	SG-2	SG-3
Benzene	0.36	.687	1.55	.576

SCDHEC Risk-Based Screening Levels for Inhalation of Vapors, set forth in the South Carolina Department of Health and Environmental Control, dated July 2020 – Table D5 – Risk Based Screening Levels (RBSLs) for Inhalation of Vapors
Bolded concentrations indicate de minimis concentrations
Shaded concentrations indicate elevated concentrations

The results of the EPA VISL calculator indicate calculated estimated site-specific Indoor Air Concentrations of Select VOC constituent (Benzene) above the applicable SCDHEC RBSLs for Inhalation of vapors. Therefore, D3G concludes that the identified Select VOC constituent (Benzene) identified within soil gas sample SG-1 through SG-3 currently represents a VEC within the area investigated during this Limited Phase II ESA investigation with supplemental Tier II invasive investigation warranted (ASTM E 2600-22).

However, based on the subsurface soil samples collected from the subject property, no concentrations of Select VOC constituent (Benzene) were identified within the source media (soil and/or groundwater) beneath the AOCs; therefore, D3G suspects a potential vapor source migrating onto the subject property through preferential pathways (i.e. utility lines, etc.) and are most likely attributed to an off-site source. In addition, it should be noted, the USEPA VISL model is a conservative screening tool and does not account for building foundation type, size, soil gas entry rates, building exchange rates, soil type, porosity, moisture, vertical and/or lateral inclusion zones from the source and/or chemical volatilization from groundwater.

Copies of the site-specific indoor air VISL calculations for soil gas are included in Attachment 9.

5.7 Quality Assurance/Quality Control Procedures

D3G adhered to industry standard procedures and processes for the collection and handling of environmental samples in accordance with those guidelines published by the SCDHEC, and the participating laboratory, Pace National – Mt. Juliet, Tennessee location. The QA/QC process is designed to ensure the analytical precision, accuracy, and representativeness of the analytical results. The QA/QC plan consists of field samples, including trip blanks, laboratory documentation and laboratory QC samples such as method blanks, matrix spikes, matrix spike duplicates, and laboratory control samples analyzed to ensure laboratory procedures and analyses were performed properly.

Trip blanks are used to identify possible sample contamination originating from sample transport, shipping, or site conditions. One (1) trip blank sample consisting of one (1) HCl preserved 40 mL glass vials and (1) 1-Liter Summa canister, provided by the laboratory, was submitted along with the Limited Phase II ESA samples. The trip blank samples were shipped with the sample containers to the field, stored with the sample containers, and returned to the laboratory with the sample containers and analyzed for Select VOCs via EPA Method 8260 (soil/groundwater) and EPA Method TO-15 (soil gas). The trip blank samples were shipped with the soil and air samples and transported the same day to the Pace National – Mt. Juliet, Tennessee location under proper chain-of-custody protocol.

No concentrations of Select VOCs were detected within the trip blank samples above their respective laboratory method detection limits during this Limited Phase II ESA investigation. Therefore, sample handling and transport procedures were appropriate to demonstrate cross-contamination has not occurred. A copy of the laboratory analytical reports is included in Attachment 7.

6.0 INTERPRETATION AND CONCLUSIONS

6.1 Recognized Environmental Condition/Potential Release Area(s)

Based on the findings of the D3G Draft Phase I ESA dated November 15, 2023, the Areas of Concern (AOCs) and probable location of potential on-site contamination, if present, is suspected to be located beneath the following portions of the subject property:

Recognized Environmental Conditions [RECs]		Areas of Concern (AOC) at the subject property
On-site LUST/UST/VEC	Arrington Manor High Rise (Subject Property), located at the subject property, is identified as a LUST incident and UST facility in the EDR Report. According to the UST listing, the facility (Facility ID: 07323) is associated with one (1) 560-gallon abandoned diesel underground storage tank (UST). No information regarding the age of the UST was included in the EDR Report. According to the LUST listing (Facility ID #07323), a release of diesel was reported on December 20, 1991. Clean up was initiated November 23, 1992, and a No Further Action letter was issued on January 13, 1993. D3G submitted a FOIA request with the South Carolina Department of Health and Environmental Control (SCDHEC) to obtain records regarding the adjacent LUST incident and UST facility. However, SCDHEC responded that no files were available for the on-site facility. Therefore, D3G requested that the Columbia Housing Authority provide any/all documentation related to the on-site UST facility and LUST incident. However, no information was available. Based on the lack of documentation for the adjacent LUST incident and UST facility, the adjacent facility is considered a REC, and a Vapor Encroachment Condition (VEC) currently exists on the subject property. Further investigation is warranted to further evaluate the identified VEC attributed/associated with the on-site LUST/UST.	Underneath the subject property

6.2 Conceptual Site Model (CSM) Validation

For Limited Phase II Environmental Subsurface Investigations performed in accordance with ASTM Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process (Designation E 1903-19), and the All-Appropriate Inquiries: Final Rule and HUD Multifamily Accelerated Processing Guide: Chapter 9 Environmental Review and Requirements, environmental sampling efforts must be validated. Validation is necessary to ensure reliable analytical results and an accurate Conceptual Site Model (CSM).

The CSM reviews the available site information (history, sources of hazardous substances and potentially exposed or exposed populations) to determine if any unacceptable or potentially unacceptable risks to site occupants are present. Exposure pathways are means by which hazardous substances move through the environment from a source to a point of contact with people. A complete exposure pathway must have four (4) parts:

- Source of contamination;
- A mechanism for transport of a substance from the source to the air, surface water, groundwater and/or soil;
- A point where people come in contact with contaminated air, surface water, groundwater or soil; and
- A route of entry into the body.

Routes of entry can be eating or drinking contaminated materials, breathing contaminated air, or absorbing contaminants through the skin. Risks can be assessed when an exposure pathway is complete. If any part of an exposure pathway is absent, the pathway is incomplete, and no exposure or risk is possible. In some cases, although a pathway is complete, the likelihood that significant exposure will occur is very small. Risk assessments include a "pathways analysis" to identify those pathways that are complete and most likely to produce significant exposure.

<u>Subsurface Soil Exposure Pathways:</u>
Based on the lack of visual and olfactory evidence of contamination as well as the subsurface soil laboratory analytical results indicating concentrations of Select VOCs and PAHs below their applicable, most stringent SCDHEC RBSLs for soils and/or the USEPA RSLs for Resident Soil within soil borings SB-1 through SB-3 during this Limited Phase II ESA investigation, D3G concludes that hazardous substances and petroleum constituents as defined by CERCLA have not been identified above Statewide, non-site specific criteria, and that a REC and a VEC does not exist on the subject property attributed to the LUST incident involving one (1) 560-gallon abandoned diesel UST within the areas investigated during this Limited Phase II ESA. Therefore, the exposure pathways for dermal contact, incidental ingestion, and inhalation for current/future residential receptors and/or construction/utility workers are considered incomplete. The preliminary CSM developed in Section 4.0 is considered validated.

Groundwater Exposure Pathways:

A temporary groundwater sampling point was initially proposed to be installed within soil borings (SB-1 through SB-3) using hydraulically driven direct-push sampling equipment (truck-mounted Geoprobe® 5410DT Series Model) on March 15, 2024. However, during borehole advancement, no observed water bearing zone was observed at depths measured at six (6) to seven (7) feet bgs prior to encountering refusal. The USEPA *Technical Guide for Addressing Petroleum Vapor Intrusion at Leaking Underground Storage Sites*, dated June 2015, states that for each building within the lateral inclusion zone, samples should be collected as necessary to determine the vertical separation distance. However, additional investigation is generally unnecessary if the distance to contamination is greater than six (6) feet for dissolved contamination beneath buildings of any size.

D3G concludes that any potential or perceived groundwater contamination attributed to the LUST incident involving one (1) 560-gallon abandoned diesel UST is unlikely based on the subsurface conditions encountered as part of this Limited Phase II ESA subsurface investigation. Therefore, a VEC is unlikely to exist attributed to the groundwater exposure pathway beneath the subject property within the areas of SB-1 through SB-3 as investigated as part of this Limited Phase II ESA. The preliminary CSM developed in Section 4.0 is considered validated.

Outdoor (Ambient) Air Exposure Pathways:

VOC concentrations within the outdoor (ambient) air sampling point OA-1 were below the laboratory detection limits and the applicable SCDHEC RBSLs for Inhalation of vapors. However, elevated concentrations of Select VOC (Benzene) were identified within the outdoor (ambient) air sampling point OA-1 during this Limited Phase II ESA investigation. The outdoor (ambient) air sample was collected approximately 167 feet west of an active main road (College Street). The possibility exists that the elevated Benzene concentrations is a result of organic vapors, such as vehicle exhaust. Therefore, D3G concludes the exposure pathways for inhalation for future/current residential receptors and construction/utility workers are considered incomplete for outdoor (ambient) air vapor inhalation with the identified Benzene concentrations most likely due to automotive emissions due to the subject property's urban environment setting.

It is unlikely that any known or perceived on-site and/or off-site contamination will further migrate on to the subject property from any up-gradient, adjacent, and/or vicinity properties as investigated as part of the D3G Limited Phase II ESA conducted on March 15, 2024

7.0 CONCLUSIONS

East Coast Geophysics reported to the Arrington Manor property in Columbia, South Carolina (subject property) on March 15, 2024, to perform a geophysical and ferromagnetic survey within the immediate vicinity of the LUST incident involving one (1) 560-gallon abandoned diesel UST.

The property was further surveyed with the GPR and no evidence of a UST was observed. There were some apparent disturbed soils in the area where borings were pre-cleared, but no definitive evidence of a tank grave was observed. Furthermore, East Coast Geophysics investigated the boiler room for evidence of an UST such as vent/fill pipes, asphalt patches, and/or ground depressions. No evidence of a UST was observed on the property.

Therefore, in order to determine if the LUST incident involving one (1) 560-gallon abandoned diesel UST has negatively affected the environmental integrity of the subject property, and to assess whether there has been a release of hazardous substances at levels that would exceed the Statewide screening-level criteria (*de minimis* levels), D3G advanced three (3) soil borings for the collection of subsurface soil (SB-1 through SB-3) for laboratory analysis. In addition, three (3) soil gas borings were advanced for the collection of soil gas samples (SG-1 through SG-3) and one (1) outdoor (ambient) air sample (OA-1).

One (1) soil gas sample was collected from temporary soil gas sampling points SG-1 through SG-3 as well as one outdoor (ambient) air sample (OA-1) and analyzed for Select VOCs via EPA Method TO-15. Elevated concentrations of Select VOC (Benzene) analyzed within the soil gas samples collected from soil gas sampling points SG-1 [22.9 ug/m3], SG-2 [51.7 ug/m3], and SG-3 [19.2 ug/m3] were identified above their respective laboratory reporting limit and above their applicable respective United States Environmental Protection (USEPA) Sub-Slab and Near Source Soil Gas Vapor Intrusion Screening Levels (VISL) and/or SCDHEC RBSLs for Inhalation of vapors respectively during this Limited Phase II ESA investigation.

The primary objective of risk-based screening is to identify sites or buildings unlikely to pose a health concern through the soil gas intrusion pathway. Generally, at properties where subsurface concentrations of vapor-forming chemicals, such as those in groundwater or “near source” soil gas, fall below the recommended screening levels (i.e., VISLs/SCDHEC RBSLs), no further action or study is warranted. This condition is generally true so long as the exposure assumptions match those accounted for in the calculations, and the site fulfills the conditions and assumptions of the generic conceptual model underlying the screening levels. Similarly, the results of risk-based screening can help the data review team identify areas, buildings, and/or chemicals that can be eliminated from further assessment. Subsurface vapor intrusion to indoor air from volatile compounds in sub-surface media is a potentially major exposure pathway. The USEPA VISLs for Near-source Soil Gas and USEPA VISLs for Target Indoor Air Concentrations address residential and commercial/industrial exposure scenarios and may be used for screening contaminants in indoor air. The air screening levels for volatile chemicals also have potential applications for screening soil gas data when used in concert with an appropriate attenuation factor and it is recommended that screening assessments evaluate the default attenuation factor of 0.03 for sub-slab soil gas and “near-source” exterior soil gas, released in 2015 by USEPA.

Based on the laboratory analytical results indicating an elevated concentration of Select VOC constituent (Benzene) identified within the soil gas samples collected from SG-1 through SG-3 above the applicable USEPA Target Sub-Slab and Near-source Soil Gas VISLs during this Limited Phase II ESA, D3G utilized the USEPA VISL Calculator to determine site-specific calculated Target Indoor Air Concentrations. The VISL calculator identifies chemicals that are sufficiently volatile and toxic to warrant an investigation of the soil gas intrusion pathway when they are present as subsurface contaminants. D3G input the elevated soil gas sampling analytical data and the recommended default attenuation factor for soil gas (0.03) into the USEPA VISL calculator to further evaluate calculated site-specific indoor air concentrations. After calculating estimated site-specific Target Indoor Air Concentrations from the soil gas analytical data, D3G compared these calculations against the SCDHEC RBSLs for Inhalation of vapors, dated July 2020, to determine if the identified soil gas concentrations will be detrimental to the residential structure indoor air and thus, pose a threat to the environment and to the health of existing or future tenants.

Based on the results of the EPA VISL calculator indicating calculated estimated site-specific Indoor Air Concentration of Select VOC constituent (Benzene) above the applicable SCDHEC RBSLs for inhalation of vapors, the potential inhalation exposure pathway for residential receptors is considered currently complete; therefore, a VEC currently exists (cannot currently be ruled out) at the subject property attributed to the LUST incident involving one (1) 560-gallon abandoned diesel UST within the areas investigated during this Limited Phase II ESA. D3G concludes that the identified concentrations of Select VOC (Benzene) collected within the exterior soil gas samples (SG-1 through SG-3) potentially represents a potential Vapor Intrusion Condition (VIC) within the soil gas to indoor air pathway, representing a potential unacceptable risk (currently) under HUD's toxics policy at §50.3(i) in regard to unrestricted residential use criteria suspected to be attributed to the LUST incident involving one (1) 560-gallon abandoned diesel UST within these Areas of Concern (AOCs) investigated as part of this Limited Phase II ESA investigation. However, it should be noted, the EPA VISL model is a conservative screening tool and does not account for building foundation type, size, soil gas entry rates, building exchange rates, soil type, porosity, moisture, vertical and/or lateral inclusion zones from the source and/or chemical volatilization from groundwater.

However, based on the subsurface soil samples collected from the subject property, no concentrations of Select VOC constituent (Benzene) was identified above the SCDHEC RBSLs for soils and/or the USEPA RSLs for Resident Soil within the areas investigated indicating a lack of source media (soil contamination) beneath the subject property, D3G suspects a potential vapor source migrating onto the subject property through preferential pathways (i.e. utility lines, etc.) and are most likely attributed to an off-site source.

Following submittal of this Limited Phase II ESA, in accordance with regulations set forth by the SCDHEC – Site Assessment and Revitalization Division: Bureau of Land and Waste Management, all laboratory analytical data, water levels obtained from each temporary groundwater sampling point will be submitted to the Department within thirty (30) days of the receipt of laboratory results unless another schedule has been approved by the Department as required by R.61-71.H.1.a of the South Carolina Well Standards and Regulations, dated April 26, 2002.

8.0 RECOMMENDATIONS

Based on the soil gas laboratory analytical results from samples collected from soil gas points SG-1 [22.9 ug/m3], SG-2 [51.7 ug/m3], and SG-3 [19.2 ug/m3] indicating the presence of Volatile Organic Compound (Benzene) above its applicable USEPA VISLs for Target Sub-Slab and Near-Source Soil-Gas Concentration (TR=1E-06, THQ=0.1) and/or SCDHEC RBSLs for Inhalation of vapors during this Limited Phase II ESA/Tier II Invasive Screen investigation, soil vapor beneath the Arrington Manor has been adversely affected with a Recognized Environmental Condition (REC) and Vapor Encroachment Condition (VEC) currently existing within subsurface media (soil gas) beneath the subject property within the areas investigated as part of this Limited Phase II ESA investigation.

In accordance with 24 CFR 970.15, A Public Housing Authority (PHA) must obtain written approval from HUD before undertaking any transaction involving demolition or disposition of PHA-owned property. Where a PHA demolishes or disposes of public housing property without HUD approval, no HUD funds may be used to fund the costs of demolition or disposition or reimburse the PHA for those costs. HUD will approve an application for demolition or disposition upon the PHA's submission of an application with the required certifications and the supporting information required by this section and §§ 970.15 or 970.17. Section 970.29 specifies criteria for disapproval of an application. Approval of the application under this part does not imply approval of a request for additional funding, which the PHA must make separately under a program that makes available funding for this purpose. The PHA shall submit the application for demolition <u>or disposition</u> and the timetable in a time and manner and in a form prescribed by HUD. The supporting information shall include:

- A certification that the PHA has described the demolition <u>or disposition</u> in the PHA Annual Plan and timetable under 24 CFR part 903 (except in the case of small or high-performing PHAs eligible for streamlined annual plan treatment), and that the description in the PHA Annual Plan is identical to the application submitted pursuant to this part and otherwise complies with section 18 of the Act (42 U.S.C. 1437p) and this part;
- A description of all identifiable property, by development, including land, dwelling units, and other improvements, involved in the proposed demolition or disposition;
- A description of the specific action proposed, such as: (i) Demolition, disposition, or demolition with disposition; (ii) If disposition is involved, the method of sale;
- A general timetable for the proposed action(s), including the initial contract for demolition, the actual demolition, and, if applicable, the closing of sale or other form of disposition;

- A statement justifying the proposed demolition or disposition under the applicable criteria of §§ 970.15 or 970.17;
- If applicable, a plan for the relocation of tenants who would be displaced by the proposed demolition or disposition (including persons with disabilities requiring reasonable accommodations and a relocation timetable as prescribed in § 970.21);
- A description with supporting evidence of the PHA's consultations with residents, any resident organizations, and the Resident Advisory Board, as required under § 903.9 of this title;
- In the case of disposition only, evidence of compliance with the offering to resident organizations, as required under § 970.9;
- In the case of disposition, an estimate of the fair market value of the property, established on the basis of one independent appraisal, unless otherwise determined by HUD, as described in § 970.19(c);
- In the case of disposition, estimates of the gross and net proceeds to be realized, with an itemization of estimated costs to be paid out of gross proceeds and the proposed use of any net proceeds in accordance with § 970.19;
- An estimate of costs for any required relocation housing, moving costs, and counseling.
- Where the PHA is requesting a waiver of the requirement for the application of proceeds for repayment of outstanding debt, the PHA must request such a waiver in its application, along with a description of the proposed use of the proceeds;
- A copy of a resolution by the PHA's Board of Commissioners approving the specific demolition or disposition application (or, in the case of the report required under § 970.27(e) for ''de minimis'' demolitions, the Board of Commissioner's resolution approving the ''de minimis'' action) for that development or developments or portions thereof. The resolution must be signed and dated after all resident and local government consultation has been completed;
- Evidence that the application was developed in consultation with appropriate government officials as defined in § 970.5, including:
  - A description of the process of consultation with local government officials, which summarizes dates, meetings, and issues raised by the local government officials and the PHA's responses to those issues;
  - A signed and dated letter in support of the application from the chief executive officer of the unit of local government that demonstrates that the PHA has consulted with the appropriate local government officials on the proposed demolition or disposition;
  - Where the local government consistently fails to respond to the PHA's attempts at consultation, including letters, requests for meetings, public notices, and other reasonable efforts, documentation of those attempts;
  - Where the PHA covers multiple jurisdictions (such as a regional housing authority), the PHA must meet these requirements for each of the jurisdictions where the PHA is proposing demolition or disposition of PHA property;
- An approved environmental review of the proposed demolition or disposition in accordance with 24 CFR parts 50 or 58 for any demolition or disposition of public housing property covered under this part, as required under 24 CFR 970.13;

- A certification that the demolition or disposition application does not violate any remedial civil rights order or agreement, voluntary compliance agreement, final judgment, consent decree, settlement agreement, or other court order or agreement;
- Any additional information necessary to support the application and assist HUD in making determinations under this part.
    - Completion of demolition/ disposition or rescissions of approval.
- HUD will consider a PHA's request to rescind an earlier approval to demolish or dispose of public housing property, where a PHA submits a resolution from the Board of Commissioners and submits documentation that the conditions that originally led to the request for demolition or disposition have significantly changed or been removed.
- The Assistant Secretary will not approve any request by the PHA to either substitute units or add units to those originally included in the approved demolition or disposition application, unless the PHA submits a new application for those units that meet the requirements of this part.

HUD reviews demolition and disposition applications in accordance with the guidance in PIH Notice 2018-04. If a Public Housing Agency (PHA) is proposing to dispose of public housing property to allow for the development of other housing, the PHA should provide detailed information to the SAC about that future housing development (i.e., name of acquiring entity, number of ACC units, number of low-income housing units, number of market-rate units, etc.). Therefore, if the subject property is being considered for future residential housing development, at a minimum, Radon mitigation measures are required to be implemented in the future project design in accordance with HUD guidelines if the subject property will be developed for unrestricted residential land use.

Typically, a minimum of two (2) rounds of soil gas data should be collected to evaluate the vapor intrusion pathway. Two (2) rounds will begin to estimate temporal and seasonal variations at the site and other site-specific factors which may influence vapor migration. Since two rounds constitute a limited database, the maximum concentration detected should be used to evaluate potential risk. Based on these results, additional samples may be required depending on the source strength, plume movement, and how soil gas concentrations compare to screening levels. If soil gas samples exceed screening values and buildings are within one hundred (100) feet of the sample location for nonpetroleum vapor-forming chemicals and within thirty (30) feet of PHC vapor-forming chemicals, then sub-slab vapor samples and/or indoor air samples should be collected to further evaluate the vapor intrusion risk pathway.

Based on the exterior soil gas sampling analytical laboratory results obtained within the soil gas samples collected from SG-1 through SG-3 indicating elevated levels of (Benzene) above the applicable SCDHEC RBSLs for Inhalation of vapors, D3G recommends the following:

- Soil gas volatile chemical levels should be used to estimate the contribution of soil gas VI sources to indoor air levels. Confirmation sampling (*i.e.*, an additional or additional rounds) may need to be conducted to estimate the contribution from the environmental release. If soil gas samples exceed screening values and buildings are within one hundred (100) feet of the sample location for nonpetroleum vapor-forming chemicals and within thirty (30) feet of PHC vapor-forming chemicals, then sub-slab vapor samples and/or indoor air samples should be collected to further evaluate the vapor intrusion risk pathway. Therefore, based on the results of the EPA VISL calculator indicating calculated estimated site-specific Indoor Air Concentrations of Select VOC (Benzene) above the applicable USEPA VISL for Target Indoor Air Concentrations, D3G concludes that the elevated levels of Select VOC (Benzene) identified within the soil gas samples collected from SG-1 through SG-3 potentially represents a VIC to existing/future tenants within 2225 College Street as investigated during this Limited Phase II ESA investigation with further Tier 2 investigations warranted (ASTM E 2600-22). However, it should be noted, the USEPA VISL model is a conservative screening tool and does not account for building foundation type, size, soil gas entry rates, building exchange rates, soil type, porosity, moisture, vertical and/or lateral inclusion zones from the source and/or chemical volatilization from groundwater. Therefore, D3G recommends a quantitative sub-slab sampling (Point of Entry to Receptor) to be conducted at the subject property (prior to disposition) further outlined herein. The supplemental quantitative Tier II invasive Vapor Encroachment Screen (VES)/supplemental vapor intrusion risk-based screening assessment is to be conducted on the subject property for the identified VEC including but not limited to sub-slab soil vapor and indoor air quality sampling within the structures located within the area of SG-1 through SG-3 (2225 College Street) for Select VOC (Benzene).

The vapor intrusion risk-based screening will be utilized to support and evaluate human health risk using supplemental individual subsurface data (e.g., sub-slab vapor and indoor air concentrations), which would consider the magnitude of the concentration exceedance of the USEPA VISLs as outlined within SCDHEC Quality Assurance Program Plan for the UST Management Division – Revision Number 4.0, dated July 2020. The supplemental investigation will be utilized as a baseline risk assessment of exposure to residential receptors, exposure pathways, toxicity of contaminants present at the site, further characterization of human health risks, impacts or risks to the environment and the further development of a site-specific CSM. In accordance with the Office of Solid Waste and Emergency Response (OSWER) Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Vapor Sources to Indoor Air – OSWER Publication 9200.2-2-154, dated June 2015, multiple lines of evidence are particularly important for supporting "no-further-action" decisions regarding the vapor intrusion pathway (e.g., pathway incomplete determinations) to reduce the chance of reaching a false-negative conclusion (i.e., concluding vapor intrusion does not pose unacceptable human health risk, when it poses an unacceptable human health risk).

Collecting and weighing multiple lines of evidence can also reduce the chance of reaching a false-positive conclusion (i.e., concluding vapor intrusion poses unacceptable human health risk, when it does not. On the other hand, parties may implement engineered exposure controls (Tier 4 mitigation in accordance with ASTM E 2600-22) for vapor intrusion, even though only limited lines of evidence or measurements may be available to characterize the overall vapor intrusion pathway. Seasonally variable conditions (e.g., moisture levels, depth to groundwater) can lead to seasonally variable concentrations and distributions of vapors in the vadose zone. Likewise, weather conditions can lead to time-variable contributions from vapor soil gas flux/intrusion (e.g., driving forces for vapor intrusion) and ambient air infiltration. Collectively, these processes cause soil vapor concentrations of vapor-forming chemicals to vary over time. An individual sample (or single round of sampling) would be insufficient to characterize seasonal variability, or variability at any other time scale. Because of variability, a soil gas/vapor sampling event, collected at a randomly chosen time, is insufficient information to estimate an average exposure. On the other hand, it is impractical to collect soil vapor samples continuously over a chronic exposure period (i.e., up to 30 years for a reasonable maximum exposure duration in a residence (EPA 2014a)), which would also entail deferring risk management decisions for a prolonged period while human exposures from vapor intrusion could occur unabated. Hence, current, and past practice has generally relied upon collecting multiple rounds of soil vapor samples for purposes of estimating long-term average (i.e., chronic) exposures and assessing human health risk. All else being equal, a longer collection sampling period for each individual sample would be expected to yield a more reliable basis for estimating long-term, time-average exposure than would one sample collection period conducted over a short sampling interval. Multiple sampling events generally are considered necessary to account for seasonal variations in climate/temperature and/or weather conditions that related risk management decisions are based upon a consideration of a reasonable maximum vapor intrusion conditions.

9.0 CERTIFICATIONS

Data presented in this report is factual to the best of D3G's knowledge. Available sources of data were comprehensively researched to provide a complete Limited Phase II ESA of the subject property. The Limited Phase II ESA consisted of subsurface soil, soil gas, and outdoor (ambient) air sample collection and analysis. The subsurface soil, soil gas, and outdoor (ambient) air sampling was conducted in general accordance with the EPA Office of Solid Waste and Emergency Response – Expedited Site Assessment Tools for Underground Storage Tank Sites: A guide for Regulators (EPA Document #510-B-91-001), (March 1997); the EPA Office of Solid Waste and Emergency Response – Groundwater Sampling and Monitoring with Direct Push Technology (EPA Document #540-R-04-005), (August 2005); ASTM E 1903 (currently 1903-19), "Standard Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process," as amended; ASTM E 2600-15, "Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions"; ASTM D 6235-04, "Practice for Expedited Site Characterization of Vadose Zone and Ground Water Contamination at Hazardous Waste Contaminated Sites"; ASTM E 1689-95 "Standard Guide for Developing Conceptual Site Models for Contaminated Sites"; ASTM E 1912-98, "Guide for Accelerated Site Characterization for Confirmed or Suspected Petroleum Releases"; and ASTM D 6725-04, 2010 "Standard Practice for Direct Push Installation of Prepacked Screen Monitoring Wells in Unconsolidated Aquifers"; SCDHEC Analytical Methodology for Groundwater and Soil Assessment Guidelines, dated July 14, 2014; SCDHEC Quality Assurance Program Plan for the Underground Storage Tank Management Division – February 2020; SCDHEC R 61-92 – Underground Storage Tank Control Regulations, dated August 25, 2017; SCDHEC R 61-68 Water Classifications and Standards, dated June 27, 2014; and the SCDHEC R 61-71 – Well Standards, dated June 24, 2016.

D3G understands that this Phase II ESA will be relied upon by the User to document to the U.S. Department of HUD that the SAC Lender's future application for FHA multifamily mortgage insurance with conversion through the HUD SAC Program and SCSHFDA was prepared in accordance with HUD SAC requirements. D3G has no financial interest or family relationship with the officers, directors, stockholders or partners of the Borrower, the general contractor, any subcontractors, the buyer or seller of the proposed property or engage in any business that might present a conflict of interest.

D3G is employed under contract for this specific assignment and has no other side deals, agreements, or financial considerations with the SAC Lender or others in connection with this transaction.

Respectfully Submitted,

Ian Court
Site Assessor/Staff Environmental Scientist

Signature

Brett Diehl, P.G.
Senior Geologist

Signature

Ron James, P.G., C.E.M.
Technical Director of Environmental Services

Signature

10.0 LIMITATIONS OF ASSESSMENT

The professional services were performed in accordance with practices generally accepted by other appropriate environmental professionals, geologists, hydrologists, hydrogeologists, geophysicists, engineers, or environmental scientists practicing in this field and directed by the client. No other warranty, either expressed or implied, is made. D3G is not an insurer and makes no guarantee or warranty that the services supplied will avert or mitigate occurrences, or the consequences of occurrences, that the services are intended to prevent or ameliorate. As with all environmental assessments, there is no guarantee that the work conducted identified any and all sources or locations of petroleum and/or non-petroleum constituents in the soil, soil vapor, and outdoor (ambient) air.

This project included a Geophysical GPR survey. The absence of detected signatures does not preclude the possibility that targets may exist. To the extent the client desires more definitive conclusions than are warranted by the currently available facts; it is specifically D3G's intent that the conclusions stated herein will be intended as guidance. GPR may not always be able to detect the thickness of a base layer if there is insufficient contrast between the layer in question and the base below. In actual practice soil attenuation may restrict the use of GPR to shallow depths

The Client shall cause all tests and inspections of the site, materials and work performed by D3G or others to be timely and properly performed in accordance with the plans, specifications and contract documents and D3G's recommendations. No claims for loss, damage, or injury shall be brought against D3G by Client or any third party unless all tests and inspections have been performed and unless D3G's recommendations have been followed. Client's reliance on or use of the professional services provided by D3G constitutes an agreement to indemnify, defend, and hold D3G, its officers, employees and agents harmless from any and all claims, suits, losses, costs and expenses, including but not limited to, court costs and reasonable attorney's fees in the event that all such tests and inspections are not so performed or D3G's recommendations are not so followed except to the extent that such failure is the result of the negligence, willful or wanton act or omission of D3G, its officers, agents or employees, subject to the limitation contained in paragraph 9.

Seasonally variable conditions (e.g., moisture levels, depth to groundwater) can lead to seasonally variable concentrations and distributions of vapors in the vadose zone. Likewise, weather conditions and building operations can lead to time-variable contributions from vapor intrusion (e.g., driving forces for vapor intrusion) and ambient air infiltration. Collectively, these processes cause soil gas concentrations of vapor-forming chemicals to vary over time. An individual sample (or single round of sampling) would be insufficient to characterize seasonal variability, or variability at any other time scale. Because of variability, a single soil vapor sampling event, collected at a randomly chosen time, is insufficient information to estimate an average exposure. Multiple sampling events generally are considered necessary to account for seasonal variations within soil gas concentration within the vadose zone and ensure that related risk management decisions are based upon a consideration of a reasonable maximum vapor intrusion conditions.

Vapor intrusion occurs when vapors from volatile contaminants in soil or groundwater diffuse through the soil, through building foundations and into overlying homes or other buildings. Soil gas can flow or be drawn into a building due to several factors, including barometric pressure changes, wind load, thermal currents, or depressurization from building exhaust fans. The rate of movement of the vapors into the building is a difficult value to quantify and depends on soil type, chemical properties, building design and condition, and the pressure differential. Once inside the building, vapors mix with and contaminate the indoor air and may pose a chronic or acute health risk to inhabitants. Vapor intrusion may be a completed exposure pathway even in cases where ingestion or dermal contact are not completed pathways. Both diffusion and advection are mechanisms of transport of subsurface soil gas into the indoor air environment. Diffusion is the mechanism by which soil gas moves from high concentration to low concentration due to a concentration gradient. Advection is the transport mechanism by which soil-gas moves due to differences in pressure. These pressure differences can be generated by atmospheric pressure changes, temperature changes creating natural convection in the soil, or forced pressure changes due to building ventilation systems. Advective transport is likely to be the most significant in the region very close to a basement or a foundation, and soil gas velocities decrease rapidly with increasing distance from the structure. Once soil gases enter the “building zone of influence,” they are generally swept into the building through foundation cracks by advection due to the indoor-outdoor building pressure differential. The reach of the “building zone of influence” on soil gas flow is usually less than a few feet, vertically and horizontally.

11.0 REFERENCES AND SOURCES OF INFORMATION

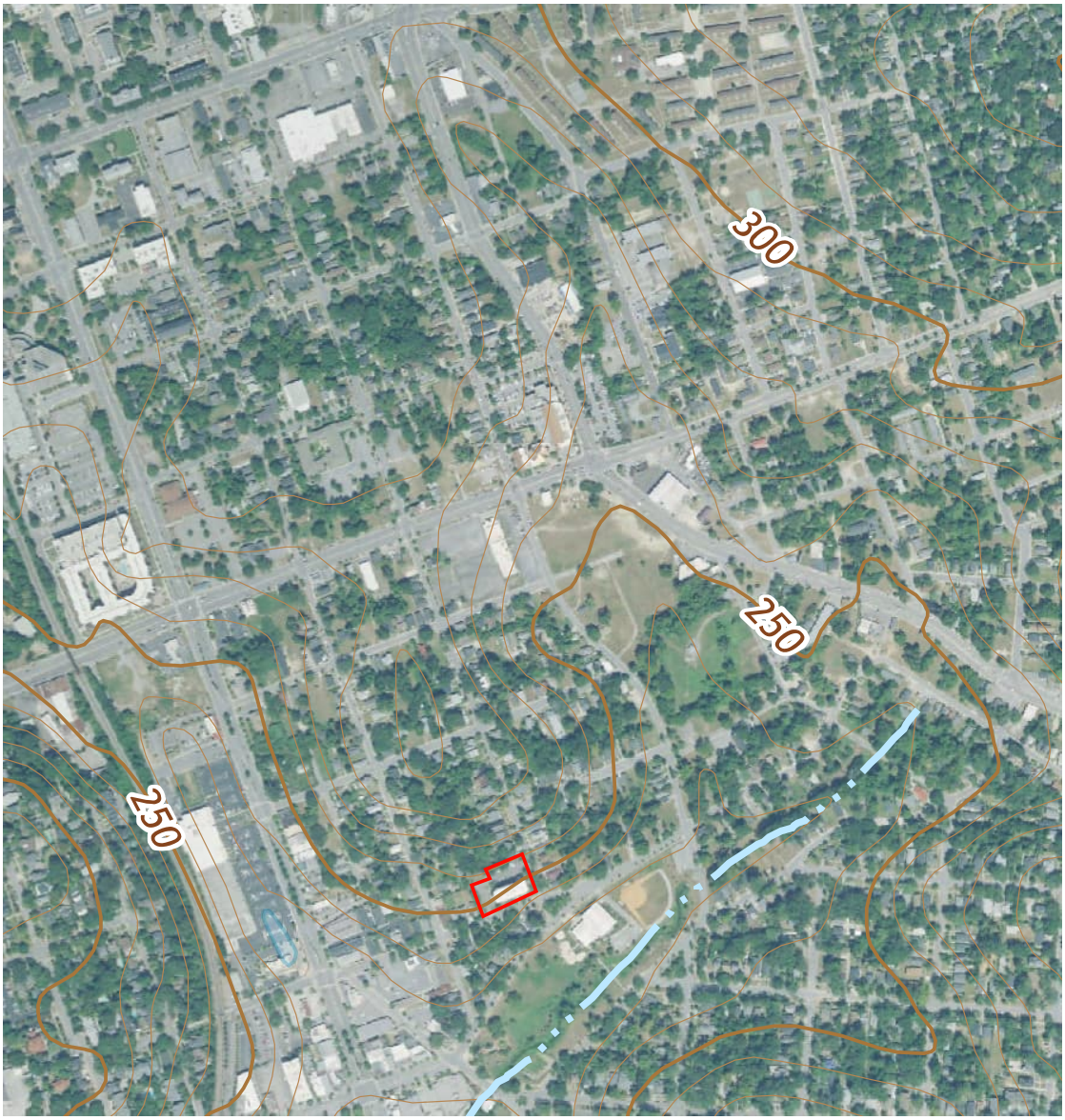
- Web Soil Survey accessed at http://websoilsurvey.nrcs.usda.gov/app/
- USGS Topographic Quadrangle – *North Columbia, South Carolina 2020*
- Delorme Street Atlas USA® 2015
- Google Earth
- All Appropriate Inquiries: Final Rule
- U.S. Housing and Urban Development (HUD) Multifamily Accelerated Processing Guide: (2020): Chapter 9 Environmental Review and Requirements, as amended
- U.S. Environmental Protection Agency (EPA);
- ASTM E 2600-15, "Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions";
- ASTM E 1903 (currently 1903-19), "Standard Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process," as amended;
- ASTM D 6235-04, "Practice for Expedited Site Characterization of Vadose Zone and Ground Water Contamination at Hazardous Waste Contaminated Sites";
- ASTM E 1689-95 "Standard Guide for developing Conceptual Site Models for Contaminated Sites";
- ASTM E 1912-98, "Guide for Accelerated Site Characterization for Confirmed or Suspected Petroleum Releases";
- ASTM D 6725-04, 2010 "Standard Practice for Direct Push Installation of Prepacked Screen Monitoring Wells in Unconsolidated Aquifers";
- Interstate Technology Regulatory Council, The Use of Direct Push Well Technology for Long-Term Environmental Monitoring in Groundwater Investigations, March 2006
- (OSWER) Final Guidance for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Sources to Indoor Air, dated June 2015;
- Standard Operating Procedure (SOP), Technical Bulletin No. 93-660 dated September 21, 1993;
- Interstate Technology Regulatory Council (ITRC) Vapor Intrusion Pathway: A Practical Guideline dated January 2007;
- SCDHEC Analytical Methodology for Groundwater and Soil Assessment Guidelines, dated July 14, 2014;
- SCDHEC Quality Assurance Program Plan for the UST Management Division – Revision Number 4.0, dated July 2020;
- SCDHEC R 61-92 – Underground Storage Tank Control Regulations, dated August 25, 2017;
- SCDHEC South Carolina Risk-Based Corrective Action for Petroleum Releases, dated May 15, 2001;
- SCDHEC Quality Assurance Program Plan for the Underground Storage Tank Management Division – February 2020;
- SCDHEC R 61-68 Water Classifications and Standards, dated June 27, 2014;
- SCDHEC R 61-71 – Well Standards, dated June 24, 2016;
- Cape Fear/Eutaw Formations. Retrieved from Cape Fear/Eutaw Formations (SCKcfe;1) (usgs.gov).
- South Carolina Housing Financing/Building SC – Environmental Review Manual updated October 1, 2020

12.0 ATTACHMENTS

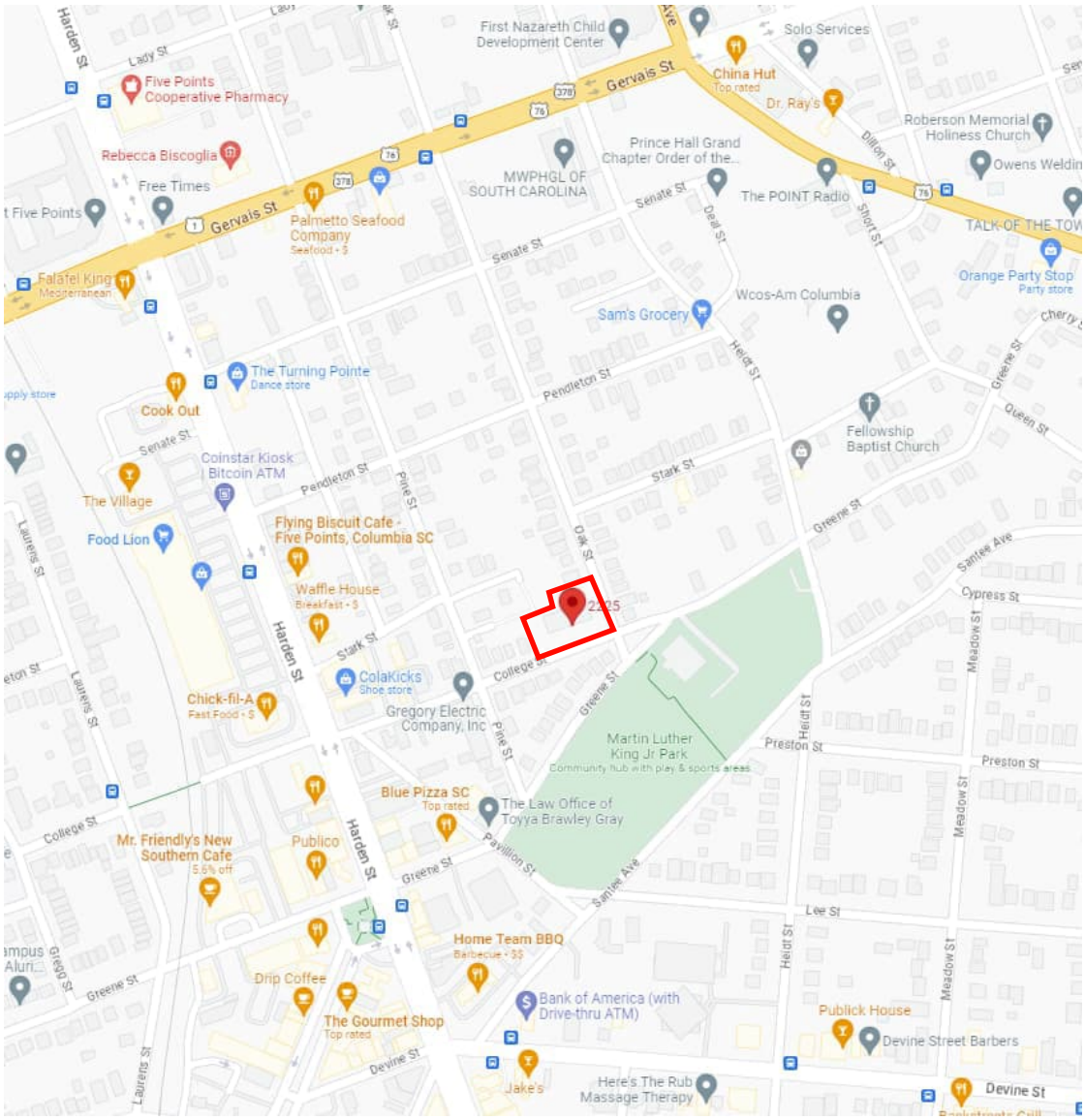
Attachment 1:	Site (Vicinity) Maps
Attachment 2:	Boring and Sampling Location Plan
Attachment 3:	Site Photographs
Attachment 4:	Soil Boring Logs, Soil Map, and USCS Classification System
Attachment 5:	Qualifications for Environmental Professionals
Attachment 6:	SCDHEC Risk-Based Screening Levels, USEPA VISLs, and USEPA RSLs
Attachment 7:	Laboratory Analytical Reports
Attachment 8:	Soil Vapor Sampling Logs
Attachment 9:	USEPA VISL Calculator Results (SG-1 through SG-3)
Attachment 10:	Geophysical/Ferromagnetic Survey Investigation Report

Attachment 1

Site (Vicinity) Maps



Appendix A Site Topographic Map	↑ **N**	Arrington Manor 2225 College Street Columbia, South Carolina *Topographic Quadrangle:* *Columbia North, South Carolina 2020*	**DOMINION DUE DILIGENCE GROUP**



Friday, May 19, 2023 10:31:41 AM - 2225 College St - Google Maps

Appendix A Site Locator Map	↑ **N**	Arrington Manor 2225 College Street Columbia, South Carolina	**DOMINION DUE DILIGENCE GROUP**

Attachment 2

Boring and Sampling Location Plan

BORING LOCATION PLAN – ARRINGTON MANOR – COLUMBIA, SOUTH CAROLINA

Legend

= Soil & Groundwater Sample | = Soil Gas Sample | = Outdoor (Ambient) Air Sample | = GPR investigation for UST/LUST

Final boring locations will be selected by a D3G geologist.

NORTH ⇧

drafted by I. Court on 3/28/2024

DOMINION Due Diligence Group

Boring Location Plan
Arrington Manor
Columbia, South Carolina

Attachment 3

Site Photographs

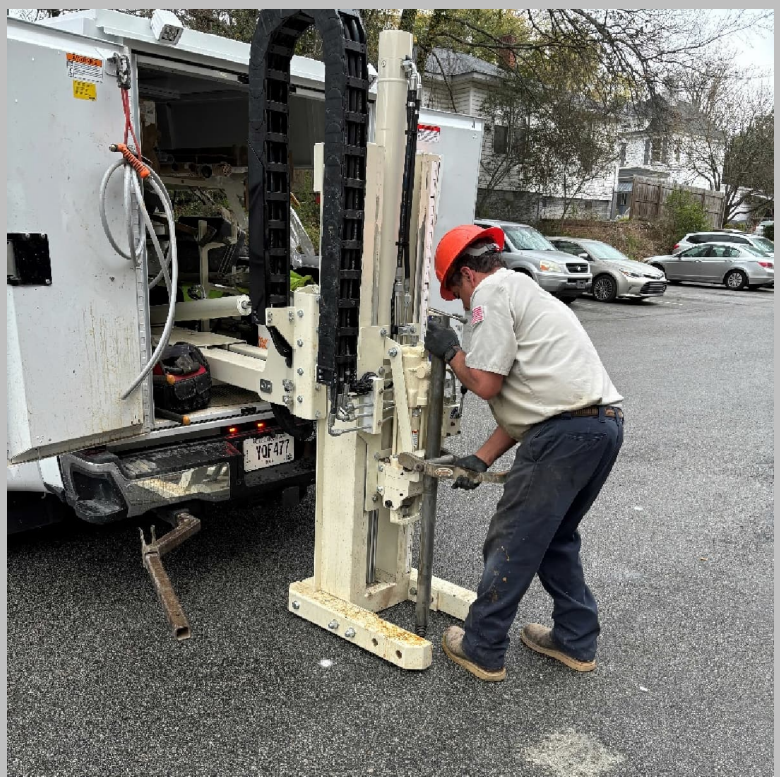
PHOTO #1

Photograph of drilling operations for SB-3.

PHOTO #2

Photograph of drilling operations for SB-1.

PHOTO #3



Photograph of drilling operations for SB-2.

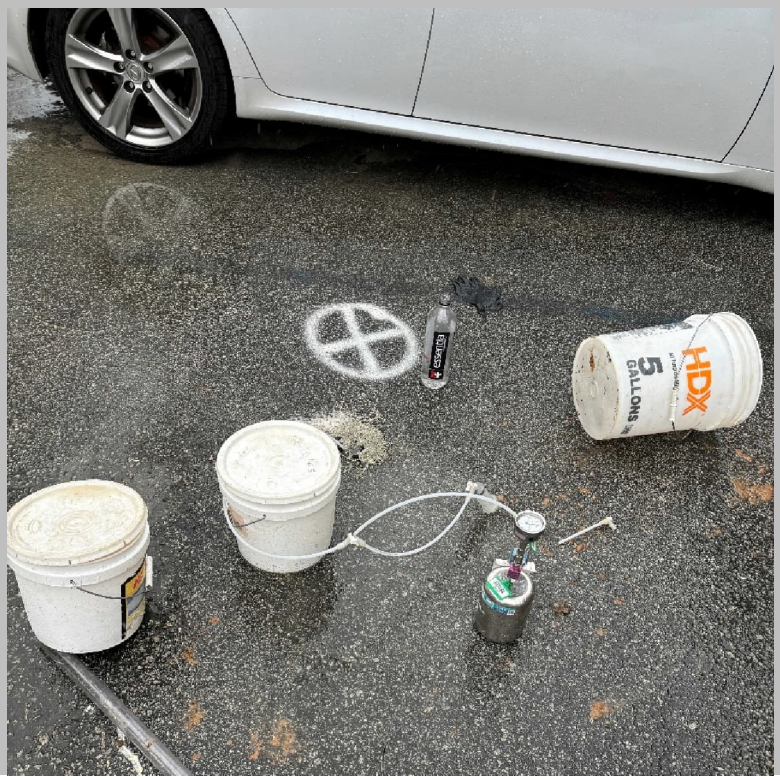
PHOTO #4

Photograph of soil vapor sampling for SG-3.

PHOTO #5

Photograph of soil vapor sampling for SG-2.

PHOTO #6



Photograph of soil vapor sampling for SG-1.

PHOTO #7

Photograph of Outdoor (Ambient) air sampling OA-1.

Attachment 4

Soil Boring Logs, Soil Map, and USCS Classification System

Soil Boring SB-1

D3G PROJECT NUMBER 2024-00564
PROJECT NAME Arringotn Manor
CLIENT Columbia Housing
ADDRESS 2225 College Street, Columbia, South Carolina 29205

DRILLING COMPANY The Probing Company
DRILLER Jim Cole
DRILL RIG Geoprobe 5410DT
DRILLING METHOD Direct Push
TOTAL DEPTH 7 feet bgs
DIAMETER 1.5 inches

LOGGED BY Ian Court
CHECKED BY Ron James
DRILLING DATE 3/15/24

COMMENTS SB-1 is located approximately 35 feet north of the 2225 College Street residential structure.

Depth (ft)	PID	% Recovery	Samples	Graphic Log	Material Description	Additional Observations
	0.2	70			Asphalt	No Visual or olfactory evidence of contamination was observed during borehole advancement. Borehole was backfilled with soil cuttings and capped at the surface with grout.
0.5						
1					(CL) CLAY; red with grey; dense; dry.	
1.5						
2	0.0					
2.5						
3						
3.5						
4	0.0	70				
4.5						
5			Sampled SB-1 at 1224.			
5.5						
6	0.0					
6.5						
7					Borehole terminated at seven (7) feet below ground surface per encountered refusal.	
7.5						

Disclaimer This bore log is intended for environmental not geotechnical purposes.

Soil Boring SB-2

D3G PROJECT NUMBER 2024-00564
PROJECT NAME Arringotn Manor
CLIENT Columbia Housing
ADDRESS 2225 College Street, Columbia, South Carolina 29205

DRILLING COMPANY The Probing Company
DRILLER Jim Cole
DRILL RIG Geoprobe 5410DT
DRILLING METHOD Direct Push
TOTAL DEPTH 6 feet bgs
DIAMETER 1.5 inches

LOGGED BY Ian Court
CHECKED BY Ron James
DRILLING DATE 3/15/24

COMMENTS SB-2 is located approximately 25 feet north of the 2225 College Street residential structure.

Depth (ft)	PID	% Recovery	Samples	Graphic Log	Material Description	Additional Observations
	0.0	70			Asphalt	No Visual or olfactory evidence of contamination was observed during borehole advancement. Borehole was backfilled with soil cuttings and capped at the surface with grout.
0.5						
1					(CL) CLAY; red; dense; dry.	
1.5						
2	0.0					
2.5						
3						
3.5						
4	0.0	70	Sampled SB-2 at 1247.			
4.5						
5						
5.5						
6					Borehole terminated at six (6) feet below ground surface per encountered refusal.	
6.5						

Disclaimer This bore log is intended for environmental not geotechnical purposes.

Soil Boring SB-3

D3G PROJECT NUMBER 2024-00564
PROJECT NAME Arringotn Manor
CLIENT Columbia Housing
ADDRESS 2225 College Street, Columbia, South Carolina 29205

DRILLING COMPANY The Probing Company
DRILLER Jim Cole
DRILL RIG Geoprobe 5410DT
DRILLING METHOD Direct Push
TOTAL DEPTH 6 feet bgs
DIAMETER 1.5 inches

LOGGED BY Ian Court
CHECKED BY Ron James
DRILLING DATE 3/15/24

COMMENTS SB-3 is located approximately 26 feet west of the 2225 College Street residential structure.

Depth (ft)	PID	% Recovery	Samples	Graphic Log	Material Description	Additional Observations
	0.0	70			Asphalt	No Visual or olfactory evidence of contamination was observed during borehole advancement. Borehole was backfilled with soil cuttings and capped at the surface with grout.
0.5						
1					(CL) CLAY; trace sand; red; dense; dry.	
1.5						
2	0.0					
2.5						
3						
3.5						
4	0.0	70	Sampled SB-3 at 1159.			
4.5						
5						
5.5						
6					Borehole terminated at six (6) feet below ground surface per encountered refusal.	
6.5						

Disclaimer This bore log is intended for environmental not geotechnical purposes.

Appendix A Site Soils Map	↑ **N**	Arrington Manor 2225 College Street Columbia, South Carolina *http://websoilsurvey.nrcs.usda.gov/app/*	**DOMINION DUE DILIGENCE GROUP**

Map Unit Description (Brief, Generated)

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions in this report, along with the maps, provide information on the composition of map units and properties of their components.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

The Map Unit Description (Brief, Generated) report displays a generated description of the major soils that occur in a map unit. Descriptions of non-soil (miscellaneous areas) and minor map unit components are not included. This description is generated from the underlying soil attribute data.

Additional information about the map units described in this report is available in other Soil Data Mart reports, which give properties of the soils and the limitations, capabilities, and potentials for many uses. Also, the narratives that accompany the Soil Data Mart reports define some of the properties included in the map unit descriptions.

Report—Map Unit Description (Brief, Generated)

Richland County, South Carolina

Map Unit: OgD—Orangeburg-Urban land complex, 6 to 15 percent slopes

Component: Orangeburg (55%)

The Orangeburg component makes up 55 percent of the map unit. Slopes are 6 to 15 percent. This component is on marine terraces on coastal plains. The parent material consists of loamy marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria.

Component: Urban land (45%)

Generated brief soil descriptions are created for major soil components. The Urban land is a miscellaneous area.

Map Unit: Ur—Urban land

Component: Urban land (100%)

Generated brief soil descriptions are created for major soil components. The Urban land is a miscellaneous area.

Data Source Information

Soil Survey Area: Richland County, South Carolina
Survey Area Data: Version 25, Sep 7, 2022

UNIFIED SOIL CLASSIFICATION
INCLUDING IDENTIFICATION AND DESCRIPTION

	FIELD IDENTIFICATION PROCEDURES (excluding particles larger than 3 inches and basing fractions on stimated weights)			GROUP SYMBOLS	TYPICAL NAMES	INFORMATION REQUIRED FOR DESCRIBING SOILS
COARSE GRAINED SOILS More than half materials is larger than No. 200 sieve size (The No. 200 sieve size es about the smallest particle visible to the naked eye)	GRAVELS More than half of coarse fraction is larger than No. 4 seive size (For visual classification, the 1/4" size may be used as equivalent for the No. 4 sieve size)	CLEAN GRAVELS (Little or no fines)	Wide range in grain size and substantial amounts of all intermediate particle sizes	GW	Well graded gravels, gravel-sand mixtures, little or no fines	Give typical name; indicate approximate percentage of sand and gravel, max. size; angularity, surface condition, and hardness of the coarse grains; local or geological name and other pertinent descriptive information, and symbol in parentheses For undisturbed soils add information on stratification, degree of compactness, cementation, moisture conditions and drainage characteristics EXAMPLE Silty sand gravelly; about 20% hard, angular gravel particle $\frac{1}{2}$ - in maximum size; rounded and subangular sand grains coarse to fine; about 15% non-plastic fines with low dry strength; well compacted and moist in place; alluvial sand; (SM)
			Predominantly one size or a range of sizes with same intermediate sizes missing	GP	Poorly graded gravels, gravel-sand mixtures, little or no fines	
		GRAVELS WITH FINES (Appreciables amount of fines)	Non-plastic fines (for identification procedures see ML below)	GM	Silty gravel, poorly graded gravel-sand sift mixtures	
			Plastic fines (for identification procedures see CL below)	GC	Clayey gravels, poorly graded gravel-sand clay mixtures	
	SANDS More than half of coarse fraction is smaller than No. 4 sieve size (For visual classification, the 1/4" size may be used as equivalent for the No. 4 sieve size)	CLEAN SANDS (Little or no fines)	Wide range in grain sizes and substantial amount of all intermediate particle sizes	SW	Well graded sands, gravelly sands, little or no fines	
			Predominantly one size or a range of sizes with some intermediate sizes missing	SP	Poorly graded sand, gravelly sands, little or no fines	
		SANDS WITH FINES (Appreciable amount of fines)	Non-plastic fines (for identification procedures see CL below)	SM	Silty sand, poorly graded sand-silt mixtures	
			Plastic fines (for identification procedures see CL below)	SC	Clayey sand, poorly graded sand-clay mixtures	

FINE GRAINED SOILS More than half materials is smaller than No. 200 sieve size (The No. 200 sieve size es about the smallest particle visible to the naked eye)	IDENTIFICATION PROCEDURES ON FRACTION SMALLER THAN No 40 SIEVE SIZE				GROUP SYMBOLS	TYPICAL NAMES	INFORMATION REQUIRED FOR DESCRIBING SOILS
		DRY STRENGTH (CRUSHING CHARACTERISTICS)	DILATANCY (REACTION TO SHAKING)	TOUGHNESS (CONSISTENCY NEAR PLASTIC LIMIT)			
SILTS AND CLAYS Liquid limit less than 50		None to slight	Quick to slow	None	ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sand with slight plasticity	Give typical name; indicate degree and character of plasticity, amount and maximum size of coarse grains; color in wet condition, odor, if any, local or geologic name, and other pertinent descriptive information, and symbol in parentheses For undisturbed soils add information on structure, stratification, consistency in undisturbed and remoided strates, moisture and drainage conditions EXAMPLE: Clayey silt, brown, slightly plastic; small percentage of fine sand; numerous vertical root holes; firm and dry in place; loess, (ML)
		Medium to high	None to very slow	Medium	OL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays	
SILTS AND CLAYS Liquid limit greater than 50		Slight to medium	Slow	Slight	MN	Organic silts and organic silt-clays of low plasticity	
		Slight to medium	Slow to none	Slight to medium	OL	Inorganic silt, micaceous or diatomaceus fine sandy or silty soils, elastic silts	
		High to very high	None	High	CH	Inorganic clays of high organic plasticity	
		Medium to high	None to very slow	Slight to medium	OH	Organic clays of medium to high plasticity	
HIGHLY ORGANIC SOILS		Readily identified by color, odor, spongy feel and frequently by fibrous texture			Pt	Peat and other organic soils	

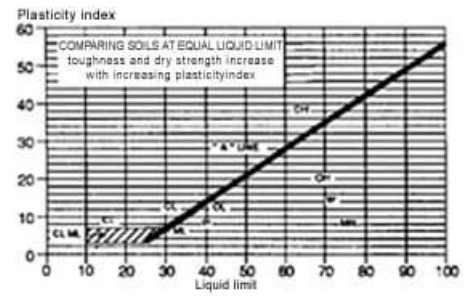
LABORATORY CLASSIFICATION CRITERIA

Use grain size curve in indentifying the fractions as given under field identification

Determine percentages of gravel and sand from grain size curve. Depending on percentage of fines (fraction smaller than No. 200 sieve size) coarse grained soils are classified as follow :
Less than 5% GW, GP, SW, SP.
More than 12% GM, GC, SM, SC.
5% to 12% Borderline cases requiring use of dual symbols

$C_u = \frac{D_{60}}{D_{10}}$ Greater than 4 $C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ between one and 3		
Not meeting all gradation requirements for GW		
Atterberg limits above "A" line with PI greater than 7	Above "A" line with PI between 4 and 7 are borderline cases requiring use of dual symbols	
Atterberg limits below "A" line or PI greater than 7		
$C_u = \frac{D_{60}}{D_{10}}$ Greater than 6 $C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ between one and 3		
Not meeting all gradation requirements for SW		
Atterberg limits below "A" line or PI less than 4	Above "A" line with PI between 4 and 7 are borderline cases requiring use of dual symbols	
Atterberg limits above "A" line with PI greater than 7		

PLASTICITY CHART
FOR LABORATORY CLASSIFICATION OF FINE GRAINED SOILS



DOMINION
Due Diligence Group

UNIFIED SOIL CLASSIFICATION SYSTEM

Attachment 5

Qualifications for Environmental Professionals

Environmental Phase II Team

DOMINION Due Diligence Group

PRINCIPAL GEOLOGIST – DIRECTOR OF TECHNICAL ENVIRONMENTAL SERVICES
Ron A. James, P.G., C.E.M. | r.james@d3g.com | 804-665-2911

Ron is your Technical Director for Environmental Services, holding numerous Professional Geologist and Certified Environmental Manager (CEM) licenses in good standing with multiple state jurisdictions and has been with D3G since 2013. In leading the technical staff and the Phase II Department, he is responsible for guiding you through your technical questions and nuances related to overall processes, timing, and protocols through multiple financing platforms (HUD/FHA, Freddie Mac, Fannie Mae, ASTM).

PROJECT GEOLOGIST
Brett Diehl, P.G. | b.diehl@d3g.com | 570-772-5264

Brett is your Project Geologist with over 8 years of experience in developing, coordinating, and technical oversight of advanced environmental and geological services, including subsurface explorations, groundwater permeability testing, and multimedia sampling for site investigations. He has supervised teams conducting multimedia investigations and remedial actions and performed groundwater and vapor intrusion investigations and compliance monitoring, in addition to laboratory data evaluation and validation for compliance report submission.

STAFF GEOLOGIST
Michael Antal | m.antal@d3g.com | 570-504-4671

Michael is your Staff Geologist with over 4 years of experience in environmental and geological services. He is responsible for identifying environmental concerns, interpreting historical documentation, report writing, and assisting in overseeing Phase II projects. Michael's experience in project management related to environmental investigations and remediation ensure projects meet federal, state, and local regulations needed for on-time project delivery.

PHASE II ENVIRONMENTAL FIELD TECHNICIAN
Ian Court | i.court@d3g.com | 804-665-2751

Ian is your Phase II Environmental Field Technician with one year of experience in conducting field investigations, multi-media sampling, and monitoring. He is responsible for subcontractor retention, multimedia sampling, reviewing/analyzing data to develop site-specific conceptual models for technical report generation and on-time project delivery.

Ian Court

Phase II Environmental Field Technician
I.court@d3g.com / 703-340-5773

EDUCATION

Longwood University — B.S. in Environmental Planning and Management

CERTIFICATIONS/REGISTRATIONS/TRAINING

- VDOT Soils and Aggregate Compaction
- HUD Web-based Instructional System for Environmental Reviews (WISER) Modules Completion
- OSHA-40 Hour HAZWOPER Training

SUMMARY OF EXPERIENCE

Ian is your Phase II Environmental Field Technician with one (1) year of experience in conducting field investigations multi-media sampling and monitoring. Mr. Court has been involved in the planning, sampling, and field investigations for Phase II ESAs conducted in general accordance with the ASTM Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process (Designation E 1903-19),

As a Phase II Environmental Field Technician, Mr. Court is responsible for development, coordination, and technical oversight of advanced environmental and geological services, including subsurface explorations, groundwater permeability testing and multi-media sampling for site investigations for real-estate transactions, site development, characterization and hydrogeological modeling. Projects include the coordination of field crews for installation and development of monitoring wells, sampling and laboratory analysis of soil, groundwater and air samples, interpretation of data, technical report preparation with the development of site-specific conceptual models to assess cleanup methods and cost analysis.

SAMPLE PROJECTS

HUD MAP 223(f)

- Festival Park
  (Chester, VA)
- Blue Ridge Terrace
  (Marion, NC)
- Paxton 365
  (Salt Lake City, UT)
- Loft 27
  (Lowell, MA)
- Hammond Village
  (Columbia, SC)
- Forest Hill House
  (Newark, NJ)

HUD MAP 221(d)

- Proposed Bonney Road Apartments
  (Virginia Beach, VA)
- The Ellison
  (Kansas City, MO)

HUD RAD 1

- Proposed 500 E. Main Street
  (Durham, NC)
- Rhea Mims Hotel Building (60-9)
  (Newport, TN)
- J. Ross Hunt Towers
  (Middletown, OH)
- The Townhouse
  (Middletown, OH)
- Riverside Homes
  (Hamilton, OH)

HUD PRAC

Grand Street Senior Housing
(New York, NY)

Ian Court

Phase II Environmental Field Technician

I.court@d3g.com / 703-340-5773

ASTM General

Laurel Hill Chapel
(Lorton, VA)

HUD SVC

Phoenix Rising LLC (formerly Ussery Homes)
(Dothan, AL)

HUD SAC

Dogwood Terrace)
(Augusta, GA)

HUD General

2331 9th Avenue North
(St Petersburg, FL)

Brett Diehl

Project Geologist

b.diehl@d3g.com / 570-772-5264

EDUCATION

Bloomsburg University of Pennsylvania, B.S. Environmental Geoscience

CERTIFICATIONS/REGISTRATIONS/TRAINING

- OSHA 40-Hour HAZWOPER Training
- OSHA 10-Hour General Construction Training
- First Aid/CPR Certified
- GSSI StructureScan ProSIR

SUMMARY OF EXPERIENCE

Mr. Diehl is an experienced Environmental Project Geologist with 6 years of experience in the field conducting site investigations, multi-media sampling and monitoring, and remediation operations and maintenance. Mr. Diehl has been involved in the planning, sampling, and field investigations for Phase II ESAs conducted in general accordance with the ASTM Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process (Designation E 1903-19), ASTM Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions (Designation E2600-15), the Standards and Practices for all Appropriate Inquiries: Final Rule and the U.S. Department of HUD Multifamily Accelerated Processing Map Guide, with specific HUD protocols including, but not limited to: MAP 221d4 New Construction, 223f refinance, 221d4 Substantial Rehabilitation, 202/223f Refinance, HUD Rental Assistance Demonstration (RAD) and HUD Special Applications Center (SAC). Mr. Diehl also has extensive experience with developing and executing groundwater and vapor intrusion investigations as well as conducting operations and maintenance of remediation systems per site-specific Corrective Action programs.

SAMPLE PROJECTS

ASTM General

- Iluka Resources – *Stoney Creek, VA*
- Bondale Apartments – *Norfolk, VA*
- Proposed East Bank Flats – *South Bend, Indiana*
- Proposed Boulder Lakeside Apartments – *Richmond, Virginia*
- 4610 Colley Avenue – *Norfolk, Virginia*
- Proposed Palmer's Creek Apartments – *Fredericksburg, Virginia*
- 22-02 Hampton Street & 22-02 Rock Street – *Rock Hill, South Carolina*

HUD MAP 223(f)

- Allapattah Gardens – *Miami, Florida*
- The Meadows – *Bakersfield, California*
- Kirby Manor of Villa St. Rose – *Cleveland, Ohio*
- Majestic Apartments – *Lowell, Massachusetts*
- Mansion Apartments – *Pine Hill, New Jersey*
- George Mason Square Townhomes – *Richmond, Virginia*
- Golden Age Apartments – *Norwich, New York*
- King's Manor Apartments – *Tampa. Florida*
- North Hill Farms 1 & 2 – *Pontiac, Michigan*
- Lexington Court (Met Paca I and II) – Scattered Site – *New York, New York*
- The Press – *Lafayette, Indiana*
- Commerce Apartments – *Roxbury, Massachusetts*
- The Villages at Marley Station – *Glen Burnie, Maryland*
- The Terraces at Arboretum – *Sugar Land, Texas*
- Clarendon Hill Towers – *Somerville, Massachusetts*
- Heritage Place – *Grand Rapids, Michigan*
- Apthorp Tower – *Cleveland, Ohio*
- Miles-Elmarge – *Cleveland Ohio*

Brett Diehl

Project Geologist

b.diehl@d3g.com / 570-772-5264

SUMMARY OF EXPERIENCE *(cont'd)*

As a Project Geologist, Mr. Diehl is responsible for the development, coordination, and technical oversight of advanced environmental and geological services. These environmental and geological services include subsurface explorations, groundwater permeability testing, multi-media sampling for site investigations involved in real-estate transactions, site development, characterization, and hydrogeological modeling. Projects include the coordination of field crews for installation and development of monitoring wells, sampling and laboratory analysis of soil, groundwater and air samples, interpretation of data, technical report preparation with the development of site-specific conceptual models to assess cleanup methods and cost analysis. Mr. Diehl has supervised technical team(s) conducting multi-media investigations and remedial actions on U.S. Environmental Protection Superfund Sites under State and Federal guidance. Mr. Diehl has conducted multimedia investigations and remedial actions, performed groundwater investigations and compliance monitoring within the Solid Waste Industry, conducted extensive vapor intrusion investigations as well as performed laboratory data evaluation and validation for compliance report submission.

Mr. Diehl's duties as Project Geologist for Dominion Due Diligence Group (D3G) include assisting the Phase II Department in coordinating, conducting, and generating reports for Phase II Environmental Site Assessments (HUD, Freddie Mac, Fannie Mae, CHFA, and ASTM E 1903-19) throughout the United States, and client contact relations.

SAMPLE PROJECTS

HUD Rental Assistance Demonstration

- Villages of East Lake – *Atlanta, Georgia – GA DCA*
- Divide Hill Apartments – *Morehead, Kentucky*
- Samuel Melton Heights – *Cleveland, Tennessee*
- Randolph Apartments – *Richmond, Virginia (VHDA)*
- Old Brook Circle – *Richmond, Virginia (VHDA)*
- McMinnville Housing Authority – *McMinnville, Tennessee*
- West Boulevard – *Cleveland, Ohio*
- Riverview Tower – *Cleveland, Ohio*
- Belmont Heights Estates – *Tampa, Florida*
- Englewood Apartments – *Coldwater, Michigan*

HUD MAP 232/223 (NC)

- Proposed Rain Dance Winter Haven – *Winter Haven, Florida*
- Proposed Highlands East – *Albuquerque, New Mexico*
- Proposed Calumet Park – *Calumet Park, Illinois*
- Proposed Southdale – *Scottsdale, Arizona*

HUD MAP 221 (d)(4) SR

- South Street Family – *Frederick, Maryland*
- Kiawah Homes – *Charleston, South Carolina*
- Whitefield Commons Apartments – *Arlington, Virginia*

Geophysical Investigations

- Creighton Road & Sandy Lane – *Richmond, Virginia*
- The Villages at Marley Station – *Glen Burnie, Maryland*
- Randolph – *Richmond, Virginia*

Ron A. James, PG, CEM, EP

Technical Director of Environmental Services
r.james@d3g.com / 804-665-2911

EDUCATION

Radford University — B.S. in Engineering Geology

CERTIFICATIONS/REGISTRATIONS/TRAINING

- Certified Professional Geologist – Commonwealth of Virginia
- Certified Professional Geologist – State of Florida
- Professional Geologist – State of Georgia
- Certified Professional Geologist – State of Louisiana
- Professional Geologist – State of Alabama
- Professional Geologist – Commonwealth of Kentucky
- Certified Environmental Manager – State of Nevada
- American Concrete Institute (ACI) Certification Level II
- OSHA 40 Hour Hazardous Waste Certification
- Nuclear Density Gauge Office/Instructor
- Virginia Department of Transportation Soils Compaction Certification Asbestos Designers Licensee, Virginia
- VDOT Asphalt; VDOT Flagger; and VDOT GRIT (Guardrail)
- DCR Soil and Erosion Sediment Control - Inspector
- GSSI Structural Optical Scan – Geophysical, GSSI Advanced Geophysical GPR Certified

SUMMARY OF EXPERIENCE

Ron James is a highly experienced environmental and technical professional with more than 25 years of experience as a Professional Geologist qualifying as an Environmental Professional as defined under ASTM E 1527 Section 4.3 - Appendix X2 and 40 CFR Part 312.10(b). He has been involved in the planning, sampling and field investigations of numerous Phase II ESAs conducted in general accordance with the ASTM Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process (Designation E 1903-19), the Standards and Practices for all Appropriate Inquiries: Final Rule and the U.S. Department of HUD Multifamily Accelerated Processing Map Guide in the following States: North Carolina, South Carolina, Georgia, Alabama, Florida, Louisiana, Virginia, Texas, Missouri, Mississippi, Pennsylvania, New Jersey, Michigan, Maryland, Massachusetts, New Hampshire, Connecticut, New York, Maine, Colorado New Hampshire, Utah, Nevada and North Dakota. HUD Programs consisted of: MAP 221d4 New Construction, 223f refinance, 221d4 Substantial Rehabilitation, 202/223f Refinance, HUD Rental Assistance Demonstration (RAD), and 232 Refinance.

SAMPLE PROJECTS

HUD MAP 223(f)

- Colonial Arms Apartments (Virginia Beach, VA)
- Bella Vista I, II & III (New Haven, CT)
- Villa Paree Apartments (Indianapolis, IN)
- Aspen Apartments Phase II (Shreveport, LA)
- Eberhart Place (Austin, TX)
- Balcones Haus (New Braunfels, TX)
- Montgomery Landing (Savannah, GA)
- Sabal Chase Apartments (Fort Pierce, FL)
- Mill House Apartments (Greenfield, MA)

HUD MAP 221 (d)(4) NC

- Fontaine Towers (Rochester, MN)
- Beasley Mill Apartments (Athens, OH)
- Proposed Azalia Gardens (Philadelphia, PA)
- Proposed Westridge Apartments (Jacksonville, FL)
- Savo Island Cooperative (Berkely, CA)
- Domsey Residential (Brooklyn, NY)
- Proposed Point Ruston Apartments (Denver, CO)
- Proposed Point Ruston Apartments (Tacoma, WA)
- Proposed Inman Mills (Inman, SC)
- Proposed Sole Mia (North Miami, FL)

HUD SPECIAL APP. CENTER

- *Collegeville Center – Phase I & II (Birmingham, AL)*
- *Carver Park (Cleveland, OH)*
- *Stokes Mall (Cleveland, OH)*

Ron A. James, PG, CEM, EP

Technical Director of Environmental Services

r.james@d3g.com / 804-665-2911

SUMMARY OF EXPERIENCE *(cont'd)*

As a Principal Geologist and Technical Director of Environmental Services, Ron is responsible for development, coordination, and technical oversight of advanced environmental and geological services, including subsurface explorations, field permeability testing, evaluation of potential borrow and cover materials, and geophysical investigations including Ground Penetrating Radar (GPR), Electrical Resistivity (ER), Electro Magnetic (EM) and Ferromagnetic non-invasive investigations for real-estate transactions, site development, characterization and hydrogeological modeling of select sites in suburban metropolitan areas throughout the United States. The projects included the coordination of field crews for installation and development of monitoring wells, sampling and laboratory analysis of soil and groundwater samples, interpretation of data, technical report preparation with the development of site-specific conceptual models to assess cleanup methods and cost analysis. Ron is proficient in developing statistical sample plans to adequately characterize subsurface conditions with contaminant plumes with proficiency in several technical fields including environmental site assessments (ESAs) and underground storage tanks (USTs) having assessed and managed remedial design for numerous release incidents with demonstrated success. He has supervised technical team(s) performing hazardous waste assessments and remediation under criteria established by CERCLA, RCRA, CWA, TSCA, SDWA, OSHA and other recognized standards. He has performed Tier I and Tier II fate and transport analysis by determining the horizontal and vertical extent of Chemicals of Concern (COCs), established exposure points, transport evaluation media and potential receptors with site specific target levels in accordance with ASTM Risk-Based Corrective Action Guidance within selected jurisdictions throughout the United States.

Ron is a licensed Professional Geologist in good standing within the Commonwealth of Virginia, Kentucky, Alabama, Florida, Georgia and Louisiana. He is certified as a State of Nevada Certified Environmental Manager (CEM) through the Nevada Division of Environmental Protection. His duties as Principal Geologist and Technical Director for Environmental Services for Dominion Due Diligence Group (D3G) include coordinating, conducting and reviewing Phase II Environmental Site Assessments (HUD, Freddie Mac, Fannie Mae, CHFA, and ASTM E 1903-19) throughout the United States, managing the D3G Phase II ESA Department and client contact.

SAMPLE PROJECTS

HUD MAP 223 (f) & 202/223(f)

- *Enon Plaza (Dayton, OH)*
- *Bixby Brockton Apartments (Brockton, MA)*
- *Golden Rule Plaza (Washington, D.C.)*
- *Revitz House (Rockville, MD)*

HUD RENTAL ASSISTANCE DEMONSTRATION

- *Belmont Heights Estates (Tampa, FL)*
- *Sparta Housing Authority (Sparta, TN)*
- *Housing Authority of the City of Georgiana (Georgiana, AL)*
- *Proposed Taft Homes (Peoria, IL)*

ASTM/AAI Environmental Projects

- Virginia State University Steam Plant (Petersburg, VA)
- Spotsylvania Town Center (Fredericksburg, VA)
- Mall Properties (Hampton, VA)
- Paracelsus Medical Center (Arlington, VA)
- Virginia Department of Mental Health Annual Contract (Virginia)

GEOPHYSICAL INVESTIGATIONS

- *Proposed New Middle School – Hull Street (Richmond, VA)*
- *Creighton Road & Sandy Lane (Richmond, VA)*
- *The Estates at Horsepen (Richmond, VA)*

Attachment 6

SCDHEC Risk-Based Screening Levels, USEPA VISLs,
and USEPA, RSLs

Table D1
RBSLs for Groundwater

Chemical of Concern	Concentration (μg/L)
Benzene	5
Toluene	1,000
Ethylbenzene	700
Xylenes	10,000
Total PAHs#	25
MTBE	40
Naphthalene	25
1,2-DCA	5
EDB □	0.05
Lead □	15
Arsenic **	10
Barium **	2,000
Cadmium **	5
Chromium **	100
Mercury **	2
Selenium **	50
Silver **	5

In calculating SSTLs for individual PAHs (Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, and Dibenz(a,h)anthracene), please use an RBSL of 10 μg/L for each CoC.

□ UST system was in operation prior to 1991.

** For waste oil UST releases only.

Table D2
Action Levels for Groundwater (Oxygenates)

Chemical of Concern	Concentration (μg/L)
EtBE (Ethyl tert-Butyl Ether)	47
tAME (tert-Amyl Methyl Ether)	128
DIPE (di-Isopropyl Ether)	150
tBA (tert-Butyl Alcohol)	1,400
tAA (tert-Amyl Alcohol)	240
Ethanol	10,000
tBF (tert-Butyl Formate)	None
3,3-Dimethyl-1-Butanol	None

Table D3
RBSLs for Sandy Soil determined based on groundwater RBSLs

Chemical of Concern	RBSL (mg/kg) (for all separation distances)
Benzene	0.007
Toluene	1.45
Ethylbenzene	1.15
Xylenes	14.5
Naphthalene	0.036
Benzo(a)anthracene*	0.066
Benzo(b)fluoranthene*	0.066
Benzo(k)fluoranthene*	0.066
Chrysene*	0.066
Dibenz(a,h)anthracene*	0.066

* **Limits are increased to levels above the calculated values to reasonably attainable laboratory reporting limits.**

Table D4
RBSLs for Clay-rich Soil (mg/kg)

Separation Distance → **↓ Chemical of Concern**	**<10 ft**	**10-15 ft**	**15-20 ft**	**20-25 ft**	**25-30 ft**	**>30 ft**
Benzene	0.003	0.008	0.037	0.187	1.010	5.665
Toluene	0.627	1.167	3.630	12.085	41.885	149.125
Ethylbenzene	1.551	6.168	76.950	1114.5	-	-
Xylenes	13.010	22.495	61.250	176.800	529.000	-
Naphthalene	0.047	0.069	0.139	0.292	0.625	1.350
Benzo(a)anthracene	0.066*	-	-	-	-	-
Benzo(b)fluoranthene	0.066*	7439.0	-	-	-	-
Benzo(k)fluoranthene	0.066*	-	-	-	-	-
Chrysene	0.066*	13.099	59.800	298.550	1573.000	-
Dibenz(a,h)anthracene	0.066*	-	-	-	-	-

Note: Separation Distance is measured from the depth of the worst-case soil sample to the top of the water table.

*** RBSLs are increased to levels above the calculated values to reasonably attainable laboratory reporting limits.**

- Indicates that the values are above saturation levels

Table D5
RBSLs for Inhalation of vapors

Chemical of Concern	RBSL ($\mu g/m^3$)
Benzene	0.36
Toluene	5200
Ethylbenzene	1.1
Xylene	100
Methyl Tert-Butyl Ether	11
1,2-DCA	0.11
EDB	0.1*

Note: RBSLs for the PAHs are not of concern because of their low volatility.
*** RBSL is increased to levels above the calculated values to reasonably attainable laboratory reporting limits.**

Table D6
RBSLs for Soil Ingestion and Dermal Contact

Chemical of Concern	Residential (mg/kg)		Industrial (mg/kg)	
	Ingestion	Dermal	Ingestion	Dermal
Benzene	13	None	59	None
Toluene	6,300	None	93,000	None
Ethylbenzene	63	None	300	None
Xylene	16,000	None	230,000	None
Methyl Tert-Butyl Ether	390	None	1,800	None
Naphthalenes	1,600	5,100	23,000	42,000
Benzo(a)anthracene	0.21	0.63	4.5	8.1
Benzo(b)fluoranthene	0.21	0.63	4.5	8.1
Benzo(k)fluoranthene	2.1	6.3	45	81
Chrysene	21	63	450	810
Dibenzo(a,h)anthracene	0.021	0.063	0.45	0.81
1,2-DCA	7.6	None	36	None
EDB	0.35	None	1.6	None

APPENDIX: WATER QUALITY NUMERIC CRITERIA FOR THE PROTECTION OF AQUATIC LIFE AND HUMAN HEALTH

This appendix contains three charts (priority pollutants, nonpriority pollutants, and organoleptic effects) of numeric criteria for the protection of human health and aquatic life. The appendix also contains three attachments which address hardness conversions and application of ammonia criteria. Footnotes specific to each chart follow the chart. General footnotes pertaining to all are at the end of the charts prior to the attachments. The numeric criteria developed and published by EPA are hereby incorporated into this regulation. Please refer to the text of the regulation for other general information and specifications in applying these numeric criteria.

PRIORITY TOXIC POLLUTANTS

Priority Pollutant		CAS Number	Freshwater Aquatic Life		Saltwater Aquatic Life		Human Health			FR Cite/ Source
			CMC (µg/L)	CCC (µg/L)	CMC (µg/L)	CCC (µg/L)	For Consumption of: Water & Organism (µg/L)	Organism Only (µg/L)	MCL (µg/L)	
1	Antimony	7440360					5.6 B, ee	640 B, ee	6 ee	65FR66443 SDWA
2	Arsenic	7440382	340 A, D, K	150 A, D, K	69 A, D, Y	36 A, D, Y	10 C	10 C	10 C	65FR31682 57FR60848 SDWA
3	Beryllium	7440417					J, ee	J, ee	4 ee	65FR31682 SDWA
4	Cadmium	7440439	0.53 D, E, K	0.10 D, E, K	43 D, Y	9.3 D, Y	J, ee	J, ee	5 ee	65FR31682 SDWA
5a	Chromium III	16065831	580 D, E, K	28 D, E, K			J, ee	J, ee	100 Total ee	EPA820/B-96-001 65FR31682 SDWA
5b	Chromium VI	18540299	16 D, K	11 D, K	1,100 D, Y	50 D, Y	J, ee	J, ee	100 Total ee	65FR31682 SDWA
6	Copper	7440508	3.8 D, E, K, Z, ll	2.9 D, E, K, Z, ll	5.8 D, Z, Y, cc	3.7 D, Z, Y, cc	1,300 T, ee			65FR31682
7	Lead	7439921	14 D, E, Y	0.54 D, E, Y	220 D, Y	8.5 D, Y				65FR31682
8	Mercury	7439976	1.6 D, K, dd	0.91 D, K, dd	2.1 D, bb, dd	1.1 D, bb, dd	0.050 B, ee	0.051 B, ee	2 ee	65FR31682 SDWA

9	Nickel	7440020	150 D, E, K	16 D, E, K	75 D, Y	8.3 D, Y	610 B, ee	4, 600 B, ee		65FR31682
10	Selenium	7782492	L, Q, S	5.0 S	290 D, aa	71 D, aa	170 Z, ee	4,200 ee	50 ee	65FR31682 65FR66443 SDWA
11	Silver	7440224	0.37 D, E, G		2.3 D, G					65FR31682
12	Thallium	7440280					0.24	0.47	2 ee	68FR75510 SDWA
13	Zinc	7440666	37 D, E, K	37 D, E, K	95 D, Y	86 D, Y	7,400 T, ee	26,000 T, ee		65FR31682 65FR66443
14	Cyanide	57125	22 K, P	5.2 K, P	1 P, Y	1 P, Y	140 ee, jj	140 ee, jj	200 ee	EPA820/B-96-001 57FR60848 68FR75510 SDWA
15	Asbestos	1332214							7 million fibers/L I, ee	57FR60848
16	2, 3, 7, 8-TCDD (Dioxin)	1746016						0.046 ppq O, C	30ppq O, C	State Standard SDWA
17	Acrolein	107028	3	3			6 ee, nn	9 ee, nn		74FR27535 74FR46587
18	Acrylonitrile	107131					0.051 B, C	0.25 B, C		65FR66443
19	Benzene	71432					2.2 B, C	51 B, C	5 C	IRIS 01/19/00 65FR66443 SDWA
20	Bromate	15541454							10 C	SDWA
21	Bromoform	75252					4.3 B, C	140 B, C	80 Total THMs C	65FR66443 SDWA
22	Bromoacetic acid	79083							60 Total HAA5 C,mm	SDWA
23	Carbon Tetrachloride	56235					0.23 B, C	1.6 B, C	5 C	65FR66443 SDWA
24	Chlorite	67481							100	SDWA

25	Chlorobenzene	108907			130T, ee	1,600 T, ee	100 T, ee	68FR75510 SDWA
26	Chlorodibromomethane	124481			0.40 B, C	13 B, C	80 Total THMs C	65FR66443 SDWA
27	Chloroform	67663			5.7 B, C, hh	470 B, C, hh	80 Total THMs C	62FR42160 SDWA
28	Dibromoacetic acid	631641					60 Total HAA5 C, mm	SDWA
29	Dichloroacetic acid	79436					60 Total HAA5 C,mm	SDWA
30	Dichlorobromomethane	75274			0.55 B, C	17 B, C	80 Total THMs C	65FR66443 SDWA
31	1, 2-Dichloroethane	107062			0.38 B, C	37 B, C	5 C	65FR66443 SDWA
32	1, 1-Dichloroethylene	75354			330 ee	7,100 ee	7 C	68FR75510 SDWA
33	1, 2-Dichloropropane	78875			0.50 B, C	15 B, C	5 C	65FR66443 SDWA
34	1, 3-Dichloropropene	542756			0.34 ee	21 ee		68FR75510
35	Ethylbenzene	100414			530 ee	2,100 ee	700 ee	68FR75510 SDWA
36	Methyl Bromide	74839			47 B, ee	1,500 B, ee		65FR66443
37	Methylene Chloride	75092			4.6 B, C	590 B, C	5 C	65FR66443 SDWA
38	Monochloroacetic acid	79118					60 Total HAA5 C,mm	SDWA
39	1, 1, 2, 2-Tetrachloroethane	79345			0.17 B, C	4.0 B, C		65FR66443

40	Tetrachloroethylene	127184					0.69 C	3.3 C	5 C		65FR66443 SDWA
41	Toluene	108883					1,300 ee	15,000 ee	1000 ee		68FR75510 SDWA
42	1,2-Trans-Dichloroethylene	156605					140 ee	10,000 ee	100 ee		68FR75510 SDWA
43	Trichloroacetic acid	79039							60 Total HAA5 C,mm		SDWA
44	1, 1, 1-Trichloroethane	71556					J, ee	J, ee	200 ee		65FR31682 SDWA
45	1, 1, 2-Trichloroethane	79005					0.59 B, C	16 B, C	5 C		65FR66443 SDWA
46	Trichloroethylene	79016					2.5 C	30 C	5 C		65FR66443 SDWA
47	Vinyl Chloride	75014					0.025 kk	2.4 kk	2 C		68FR75510 SDWA
48	2-Chlorophenol	95578					81 B, T, ee	150 B, T, ee			65FR66443
49	2, 4-Dichlorophenol	120832					77 B, T, ee	290 B, T, ee			65FR66443
50	2, 4-Dimethylphenol	105679					380 B, T, ee	850 B, T, ee			65FR66443
51	2-Methyl- 4, 6-Dinitrophenol	534521					13 ee	280 ee			65FR66443
52	2, 4-Dinitrophenol	51285					69 B, ee	5,300 B, ee			65FR66443
53	Pentachlorophenol	87865	19 F, K	15 F, K	13 Y	7.9 Y	0.27 B, C	3.0 B, C, H	1 C		65FR31682 65FR66443 SDWA
54	Phenol	108952					10,000 T, ee, nn	860,000 T, ee, nn			74FR27535 74FR46587
55	2, 4, 6-Trichlorophenol	88062					1.4 B, C, T	2.4 B, C			65FR66443

56	Acenaphthene	83329					670 B, T, ee	990 B, T, ee	65FR66443
57	Anthracene	120127					8,300 B, ee	40,000 B, ee	65FR66443
58	Benzidine	92875					0.000086 B, C	0.00020 B, C	65FR66443
59	Benzo (a) Anthracene	56553					0.0038 B, C	0.018 B, C	65FR66443
60	Benzo (a) Pyrene	50328					0.0038 B, C	0.018 B, C	0.2 C	65FR66443 SDWA
61	Benzo (b) Fluoranthene	205992					0.0038 B, C	0.018 B, C	65FR66443
62	Benzo (k) Fluoranthene	207089					0.0038 B, C	0.018 B, C	65FR66443
63	Bis-2-Chloroethyl Ether	111444					0.030 B, C	0.53 B, C	65FR66443
64	Bis-2-Chloroisopropyl Ether	108601					1,400 B, ee	65,000 B, ee	65FR66443
65	Bi-s2-Ethylhexyl Phthalate (DEHP)	117817	V	V	V	V	1.2 B, C	2.2 B, C	6 C	65FR66443 SDWA
66	Butylbenzene Phthalate	85687	ii	ii	ii	ii	1,500 B, ee	1,900 B, ee	65FR66443
67	2-Chloronaphthalene	91587					1,000 B, ee	1,600 B, ee	65FR66443
68	Chrysene	218019					0.0038 B, C	0.018 B, C	65FR66443
69	Dibenzo(a,h)Anthracene	53703					0.0038 B, C	0.018 B, C	65FR66443

70	1, 2-Dichlorobenzene	95501			420 ee	1,300 ee	600 ee	68FR75510 SDWA
71	1, 3-Dichlorobenzene	541731			320 ee	960 ee		65FR66443
72	1, 4-Dichlorobenzene	106467			63 ee	190 ee	75 ee	68FR75510 SDWA
73	3, 3'-Dichlorobenzidine	91941			0.021 B, C	0.028 B, C		65FR66443
74	Diethyl Phthalate	84662	ii ii	ii ii	17,000 B, ee	44,000 B, ee		65FR66443
75	Dimethyl Phthalate	13113	ii ii	ii ii	270,000 B, ee	1,100,000 B, ee		64FR66443
76	Di-n-butyl Phthalate	84742	ii ii	ii ii	2,000 B, ee	4,500 B, ee		65FR66443
77	2, 4-Dinitrotoluene	121142			0.11 C	3.4 C		65FR66443
78	1, 2-Diphenylhydrazine	122667			0.036 B, C	0.20 B, C		65FR66443
79	Fluoranthene	206440			130 B, ee	140 B, ee		65FR66443
80	Fluorene	86737			1,100 B, ee	5,300 B, ee		65FR66443
81	Hexachlorobenzene	118741			0.00028 B, C	0.00029 B, C	1 C	65FR66443 SDWA
82	Hexachlorobutadiene	87683			0.44 B, C	18 B, C		65FR66443
83	Hexachlorocyclo-pentadiene	77474			40 T, ee	1100 T, ee	50 ee	68FR75510 SDWA
84	Hexachloroethane	67721			1.4 B, C	3.3 B, C		65FR66443
85	Indeno 1,2,3(cd) Pyrene	193395			0.0038 B, C	0.018 B, C		65FR66443

86	Isophorone	78591					35 B, C	960 B, C		65FR66443
87	Nitrobenzene	98953					17 B, ee	690 B, H, T, ee		65FR66443
88	N-Nitrosodimethylamine	62759					0.00069 B, C	3.0 B, C		65FR66443
89	N-Nitrosodi-n-Propylamine	621647					0.0050 B, C	0.51 B, C		65FR66443
90	N-Nitrosodiphenylamine	86306					3.3 B, C	6.0 B, C		65FR66443
91	Pyrene	129000					830 B, ee	4,000 B, ee		65FR66443
92	1, 2, 4-Trichlorobenzene	120821					35 ee	70 ee	70 ee	68FR75510 SDWA
93	Aldrin	309002	3.0 G, X		1.3 G, X		0.000049 B, C	0.000050 B, C		65FR31682 65FR66443
94	alpha-BHC	319846					0.0026 B, C	0.0049 B, C		65FR66443
95	beta-BHC	319857					0.0091 B, C	0.017 B, C		65FR66443
96	gamma-BHC (Lindane)	58899	0.95 K		0.16 G		0.98 ee	1.8 ee	0.2 C	65FR31682 68FR75510 SDWA
97	Chlordane	57749	2.4 G	0.0043 G, X	0.09 G	0.004 G, X	0.00080 B, C	0.00081 B, C	2 C	65FR31682 65FR66443 SDWA
98	4, 4’-DDT	50293	1.1 G, gg	0.001 G, X, gg	0.13 G, gg	0.001 G, X, gg	0.00022 B, C	0.00022 B, C		65FR31682 65FR66443
99	4, 4’-DDE	72559					0.00022 B, C	0.00022 B, C		65FR66443
100	4, 4’-DDD	72548					0.00031 B, C	0.00031 B, C		65FR66443

101	Dieldrin	60571	0.24 K	0.056 K, N	0.71 G	0.0019 G, X	0.000052 B, C	0.000054 B, C		65FR31682 65FR66443
102	alpha-Endosulfan	959988	0.22 G, W	0.056 G, W	0.034 G, W	0.0087 G, W	62 B, ee	89 B, ee		65FR31682 65FR66443
103	beta-Endosulfan	33213659	0.22 G, W	0.056 G, W	0.034 G, W	0.0087 G, W	62 B, ee	89 B, ee		65FR31682 65FR66443
104	Endosulfan Sulfate	1031078					62 B, ee	89 B, ee		65FR31682 65FR66443
105	Endrin	72208	0.086 K	0.036 K, N	0.037 G	0.0023 G, X	0.059 ee	0.060 ee	2 ee	68FR75510 SDWA
106	Endrin Aldehyde	7421934					0.29 B, ee	0.30 B, H, ee		65FR66443
107	Heptachlor	76448	0.52 G	0.0038 G, X	0.053 G	0.0036 G, X	0.000079 B, C	0.000079 B, C	0.4 C	65FR31682 65FR66443 SDWA
108	Heptachlor Epoxide	1024573	0.52 G, U	0.0038 G, U, X	0.053 G, U	0.0036 G, U, X	0.000039 B, C	0.000039B, C	0.2 C	65FR31682 65FR66443 SDWA
109	Polychlorinated Biphenyls PCBs	--		0.014 M, X		0.03 M, X	0.000064 B, C, M	0.000064 B, C, M	0.5 C	65FR31682 65FR66443 SDWA
110	Toxaphene	8001352	0.73	0.0002 X	0.21	0.0002 X	0.00028 B, C	0.00028 B, C	3 C	65FR31682 65FR66443 SDWA

Footnotes:

A This water quality criterion was derived from data for arsenic (III), but is applied here to total arsenic, which might imply that arsenic (III) and arsenic (V) are equally toxic to aquatic life and that their toxicities are additive. In the arsenic criteria document (EPA 440/5-84-033, January 1985), Species Mean Acute Values are given for both arsenic (III) and arsenic (V) for five species and the ratios of the SMAVs for each species range from 0.6 to 1.7. Chronic values are available for both arsenic (III) and arsenic (V) for one species; for the fathead minnow, the chronic value for arsenic (V) is 0.29 times the chronic value for arsenic (III). No data are known to be available concerning whether the toxicities of the forms of arsenic to aquatic organisms are additive.

B This criterion has been revised to reflect The Environmental Protection Agency's q1* or RfD, as contained in the Integrated Risk Information System (IRIS) as of May 17, 2002. The fish tissue bioconcentration factor (BCF) from the 1980 Ambient Water Quality Criteria document was retained in each case.

C This criterion is based on carcinogenicity of 10^{-6} risk. As prescribed in Section E of this regulation, application of this criterion for permit effluent limitations requires the use annual average flow or comparable tidal condition as determined by the Department.

D Freshwater and saltwater criteria for metals are expressed in terms of total recoverable metals. As allowed in Section E of this regulation, these criteria may be expressed as dissolved metal for the purposes of deriving permit effluent limitations. The dissolved metal water quality criteria value may be calculated by using these 304(a) aquatic life criteria expressed in terms of total recoverable metal, and multiplying it by a conversion factor (CF). The term "Conversion Factor" (CF) represents the conversion factor for

converting a metal criterion expressed as the total recoverable fraction in the water column to a criterion expressed as the dissolved fraction in the water column. (Conversion Factors for saltwater CCCs are not currently available. Conversion factors derived for saltwater CMCs have been used for both saltwater CMCs and CCCs). See "Office of Water Policy and Technical Guidance on Interpretation and Implementation of Aquatic Life Metals Criteria", October 1, 1993, by Martha G. Prothro, Acting Assistant Administrator for Water, available from the Water Resource center, USEPA, 401 M St., SW, mail code RC4100, Washington, DC 20460; and 40CFR§131.36(b)(1). Conversion Factors can be found in Attachment 1 – Conversion Factors for Dissolved Metals.

E The freshwater criterion for this metal is expressed as a function of hardness (mg/L) in the water column. The value given here corresponds to a hardness of 25 mg/L as expressed as $CaCO_3$. Criteria values for other hardness may be calculated from the following: CMC (dissolved) = $\exp\{m_A [\ln(\text{hardness})] + b_A\}$ (CF), or CCC (dissolved) = $\exp\{m_C [\ln(\text{hardness})] + b_C\}$ (CF) and the parameters specified in Attachment 2 – Parameters for Calculating Freshwater Dissolved Metals Criteria That Are Hardness-Dependent. As noted in footnote D above, the values in this appendix are expressed as total recoverable, the criterion may be calculated from the following: CMC (total) = $\exp\{m_A [\ln(\text{hardness})] + b_A\}$, or CCC (total) = $\exp\{m_C [\ln(\text{hardness})] + b_C\}$.

F Freshwater aquatic life values for pentachlorophenol are expressed as a function of pH, and are calculated as follows: CMC = exp(1.005(pH)-4.869); CCC = exp(1.005(pH)-5.134). Values displayed in table correspond to a pH of 7.8.

G This criterion is based on 304(a) aquatic life criterion issued in 1980, and was issued in one of the following documents: Aldrin/Dieldrin (EPA 440/5-80-019), Chlordane (EPA 440/5-80-027), DDT (EPA 440/5-80-038), Endosulfan (EPA 440/5-80-046), Endrin (EPA 440/5-80-047), Heptachlor (440/5-80-052), Hexachlorocyclohexane (EPA 440/5-80-054), Silver (EPA 440/5-80-071). The Minimum Data Requirements and derivation procedures were different in the 1980 Guidelines than in the 1985 Guidelines. For example, a "CMC" derived using the 1980 Guidelines was derived to be used as an instantaneous maximum. If assessment is to be done using an averaging period, the values given should be divided by 2 to obtain a value that is more comparable to a CMC derived using the 1985 Guidelines.

H No criterion for protection of human health from consumption of aquatic organisms excluding water was presented in the 1980 criteria document or in the *1986 Quality Criteria for Water*. Nevertheless, sufficient information was presented in the 1980 document to allow the calculation of a criterion, even though the results of such a calculation were not shown in the document.

I This criterion for asbestos is the Maximum Contaminant Level (MCL) developed under the Safe Drinking Water Act (SDWA) and the National Primary Drinking Water Regulation (NPDWR).

J EPA has not calculated a 304(a) human health criterion for this contaminant. The criterion is the Maximum Contaminant Level developed under the Safe Drinking Water Act (SDWA) and the National Primary Drinking Water Regulation (NPDWR).

K This criterion is based on a 304(a) aquatic life criterion that was issued in the *1995 Updates: Water Quality Criteria Documents for the Protection of Aquatic Life in Ambient Water*, (EPA-820-B-96-001, September 1996). This value was derived using the GLI Guidelines (60FR15393-15399, March 23, 1995; 40CFR132 Appendix A); the difference between the 1985 Guidelines and the GLI Guidelines are explained on page iv of the 1995 Updates. None of the decisions concerning the derivation of this criterion were affected by any considerations that are specific to the Great Lakes.

L The CMC = 1/[(f1/CMC1) + (f2/CMC2)] where f1 and f2 are the fractions of total selenium that are treated as selenite and selenate, respectively, and CMC1 and CMC2 are 185.9 µg /l and 12.82 µg /l, respectively.

M This criterion applies to total PCBs, (e.g., the sum of all congener or all isomer or homolog or Aroclor analyses.)

N The derivation of the CCC for this pollutant did not consider exposure through the diet, which is probably important for aquatic life occupying upper trophic levels.

O This state criterion is also based on a total fish consumption rate of 0.0175 kg/day.

P This water quality criterion is expressed asµg free cyanide (as CN)/L.

Q This value was announced (61FR58444-58449, November 14, 1996) as a proposed GLI 303 I aquatic life criterion

S This water quality criterion for selenium is expressed in terms of total recoverable metal in the water column. It is scientifically acceptable to use the conversion factor (0.996 – CMC or 0.922 – CCC) that was used in the GLI to convert this to a value that is expressed in terms of dissolved metal.

T The organoleptic effect criterion is more stringent than the value for priority toxic pollutants.

U This value was derived from data for heptachlor and the criteria document provides insufficient data to estimate the relative toxicities of heptachlor and heptachlor epoxide.

V There is a full set of aquatic life toxicity data that show that DEHP is not toxic to aquatic organisms at or below its solubilitylimit.

W This value was derived from data for endosulfan and is most appropriately applied to the sum of alpha-endosulfan and beta-endosulfan.

X This criterion is based on a 304(a) aquatic life criterion issued in 1980 or 1986, and was issued in one of the following documents: Aldrin/Dieldrin (EPA440/5-80-019), Chlordane (EPA 440/5-80-027), DDT (EPA 440/5-80-038), Endrin (EPA 440/5-80-047), Heptachlor (EPA 440/5-80-052), Polychlorinated Biphenyls (EPA 440/5- 80-068), Toxaphene (EPA 440/5-86-006). This CCC is based on the Final Residue value procedure in the 1985 Guidelines. Since the publication of the Great Lakes Aquatic Life Criteria Guidelines in 1995 (60FR15393-15399, March 23, 1995), the EPA no longer uses the Final Residue value procedure for deriving CCCs for new or revised 304(a) aquatic life criteria.

Y This water quality criterion is based on a 304(a) aquatic life criterion that was derived using the 1985 Guidelines (*Guidelines for Deriving Numerical National Water Quality Criteria for the Protection of Aquatic Organisms and Their Uses*, PB85-227049, January 1985) and was issued in one of the following criteria documents: Arsenic (EPA 440/5-84-033), Cadmium (EPA 440/5-84-032), Chromium (EPA 440/5-84-029), Copper (EPA 440/5-84-031), Cyanide (EPA 440/5-84-028), Lead (EPA 440/5-84-027), Nickel (EPA 440/5-86-004), Pentachlorophenol (EPA 440/5-86-009), Toxaphene, (EPA 440/5-86-006), Zinc (EPA 440/5-87- 003).

Z When the concentration of dissolved organic carbon is elevated, copper is substantially less toxic and use of Water-Effect Ratios might be appropriate.

aa The selenium criteria document (EPA 440/5-87-006, September 1987) provides that if selenium is as toxic to saltwater fishes in the field as it is to freshwater fishes in the field, the status of the fish community should be monitored whenever the concentration of selenium exceeds 5.0 7g/L in salt water because the saltwater CCC does not take into account uptake via the food chain.

bb This water quality criterion was derived on page 43 of the mercury criteria document (EPA 440/5-84-026, January 1985). The saltwater CCC of 0.025 ug/L given on page 23 of the criteria document is based on the Final Residue value procedure in the 1985 Guidelines. Since the publication of the Great Lakes Aquatic Life criteria Guidelines in 1995 (60FR15393-15399, March 23, 1995), the EPA no longer uses the Final Residue value procedure for deriving CCCs for new or revised 304(a) aquatic life criteria.

cc This water quality criterion was derived in *Ambient Water Quality Criteria Saltwater Copper Addendum* (Draft, April 14, 1995) and was promulgated in the Interim Final National Toxics Rule (60FR22228-222237, May 4, 1995).

dd This water quality criterion was derived from data for inorganic mercury (II), but is applied here to total mercury. If a substantial portion of the mercury in the water column is methylmercury, this criterion will probably be under protective. In addition, even though inorganic mercury is converted to methylmercury and methylmercury bioaccumulates to a great extent, this criterion does not account for uptake via the food chain because sufficient data were not available when the criterion was derived.

ee This criterion is a noncarcinogen. As prescribed in Section E of this regulation, application of this criterion for determining permit effluent limitations requires the use of 7Q10 or comparable tidal condition as determined by the Department.

gg This criterion applies to DDT and its metabolites (i.e., the total concentration of DDT and its metabolites should not exceed this value).

hh Although a new RfD is available in IRIS, the surface water criteria will not be revised until the National Primary Drinking Water Regulations: Stage 2 Disinfectants and Disinfection Byproducts Rule (Stage 2 DBPR) is completed, since public comment on the relative source contribution (RSC) for chloroform is anticipated.

ii Although EPA has not published a completed criteria document for phthalate, it is EPA's understanding that sufficient data exist to allow calculation of aquatic life criteria.

jj This recommended water quality criterion is expressed as total cyanide, even though the IRIS RfD the EPA used to derive the criterion is based on free cyanide. The multiple forms of cyanide that are present in ambient water have significant differences in toxicity due to their abilities to liberate the CN-moiety. Some complex cyanides require even more extreme conditions than refluxing with sulfuric acid to liberate the CN-moiety. Thus, these complex cyanides are expected to have little or no 'bioavailalbility' to humans. If a substantial fraction of the cyanide present in a water body is present in a complexed form (e.g.,$FE_4[FE(CN)_6]_3$), this criterion may be overly conservative.

kk This recommended water quality criterion was derived using the cancer slope factor of 1.4 (Linear multi-stage model (LMS) exposure from birth).

ll Freshwater copper criteria may be calculated utilizing the procedures identified in EPA-822-R-07-001.

mm HAA5 means five haloacetic acids (monochloracitic acid, dichloroacetic acid, trichloroacetic acid, bromoacetic acid and dibromoaccetic acid).

nn This criterion has been revised to reflect the EPA's cancer slope factor (CSF) or reference dose (RfD), as contained in the Integrated Risk Information System (IRIS) as of (Final FR Notice June 10, 2009). The fish tissue bioconcentration factor (BCF) from the 1980 Ambient Water Quality Criteria document was retained in each case.

NON PRIORITY POLLUTANTS

Non Priority Pollutant		CAS Number	Freshwater Aquatic Life		Saltwater Aquatic Life		Human Health			FR Cite/Source
							For Consumption of:			
			CMC (µg/L)	CCC (µg/L)	CMC (µg/L)	CCC (µg/L)	Water & Organism (µg/L)	Organism Only (µg/L)	MCL (µg/L)	
1	Alachlor								2 M	SDWA

2	Ammonia	7664417	CRITERIA ARE pH AND TEMPERATURE DEPENDENT - SEE DOCUMENT FOR DETAILS C							EPA822-R99-014 EPA440/5-88-004
3	Aesthetic Qualities		NARRATIVE STATEMENT AND NUMERIC CRITERIA – SEE TEXT							Gold Book
4	Atrazine								3 M	SDWA
5	Bacteria		FOR PRIMARY CONTACT RECREATION AND SHELLFISH USES – SEE TEXT							Gold Book
6	Barium	7440393					1,000 A, L		2,000 L	Gold Book
7	Carbofuran	1563662							40 L	SDWA
8	Chlorine	7782505	19	11	13	7.5			G	Gold Book SDWA
9	Chlorophenoxy Herbicide 2, 4, 5, -TP	93721					10 A, L		50 L	Gold Book SDWA
10	Chlorophenoxy Herbicide 2, 4-D	94757					100 A, L		70 L	Gold Book SDWA
11	Chlorophyll *a*		NARRATIVE STATEMENT AND NUMERIC CRITERIA – SEE TEXT							State Standard
12	Chloropyrifos	2921882	0.083 F	0.041 F	0.011 F	0.0056 F				Gold Book
13	Color		NARRATIVE STATEMENT – SEE TEXT							State Standard
14	Dalapon	75990							200 L	SDWA
15	Demeton	8065483		0.1 E		0.1 E				Gold Book
16	1,2-Dibromo-3-chloropropane (DBCP)	96128							0.2 M	SDWA
17	Di(2-ethylhexyl) adipate	103231							400 L	SDWA
18	Dinoseb	88857							7 L	SDWA

19	Dinitrophenols	25550587					69 L	5,300 L		65FR66443
20	Nonylphenol	1044051	28	6.6	7.0	1.7				71FR9337
21	Diquat	85007							20 L	SDWA
22	Endothall	145733							100 L	SDWA
23	Ether, Bis Chloromethyl	542881					0.00010 D, M	0.00029 D, M		65FR66443
24	Cis-1, 2-dichloroethylene	156592							70 L	SDWA
25	Ethylene dibromide								0.05 M	SDWA
26	Fluoride	7681494							4000 L	SDWA
27	Glyphosate	1071836							700 L	SDWA
28	Guthion	86500		0.01 E		0.01 E				Gold Book
29	Hexachlorocyclo-hexane-Technical	319868					0.0123 L	0.0414 L		Gold Book
30	Malathion	121755		0.1 E		0.1 E				Gold Book
31	Methoxychlor	72435		0.03 E		0.03 E	100 A, L		40 L	Gold Book SDWA
32	Mirex	2385855		0.001 E		0.001 E				Gold Book
33	Nitrates	14797558					10, 000 L		10, 000 L	SDWA Gold Book

34	Nitrites	14797650							1,000 L	SDWA
35	Nitrogen, Total		NARRATIVE STATEMENT AND NUMERIC CRITERIA - SEE TEXT							State Standard
36	Nitrosamines						0.0008 L	1.24 L		Gold Book
37	Nitrosodibutylamine, N	924163					0.0063 A, M	0.22 A, M		65FR66443
38	Nitrosodiethylamine, N	55185					0.0008 A, M	1.24 A, M		Gold Book
39	Nitrosopyrrolidine, N	930552					0.016 M	34 M		65FR66443
40	Oil and Grease		NARRATIVE STATEMENT – SEE TEXT							Gold Book
41	Oxamyl	23135220							200 L	SDWA
42	Oxygen, Dissolved	7782447	WARMWATER, COLDWATER, AND EXCEPTIONS FOR NATURAL CONDITIONS - SEE TEXT K							Gold Book State Standard
43	Diazinon	333415	0.17	0.17	0.82	0.82				71FR9336
44	Parathion	56382	0.065 H	0.013 H						Gold Book
45	Pentachlorobenzene	608935					1.4 E	1.5 E		65FR66443
46	pH		SEE TEXT I							Gold Book State Standard
47	Phosphorus, Total		NARRATIVE STATEMENT AND NUMERIC CRITERIA - SEE TEXT							State Standard
48	Picloram	1918021							500 L	SDWA
49	Salinity		NARRATIVE STATEMENT - SEE TEXT							Gold Book
50	Simazine	122349							4 L	SDWA

51	Solids,Suspended,and Turbidity		NARRATIVE STATEMENT AND NUMERIC CRITERIA - SEE TEXT							Gold Book State Standard
52	Styrene	100425							100 L	SDWA
53	Sulfide-Hydrogen Sulfide	7783064		2.0 E		2.0 E				Gold Book
54	Tainting Substances		NARRATIVE STATEMENT - SEE TEXT							Gold Book
55	Temperature		SPECIES DEPENDENT CRITERIA - SEE TEXT J							Red Book
56	1, 2, 4, 5-Tetrachlorobenzene	95943					0.97 D	1.1 D		65FR66443
57	Tributyltin (TBT)	688733	0.46	0.063	0.37	0.010				EPA 822-F-00-008
58	2, 4, 5-Trichlorophenol	95954					1,800 B, D	3,600 B, D		65FR66443
59	Xylenes, Total								10, 000 L	SDWA
60	Uranium								30	SDWA
61	Beta particles and photon emitters								4 Millirems/ yr	SDWA
62	Gross alpha particle activity								15 picocuries per liter (pCi/l)	SDWA
63	Radium 226 and Radium 228 (combined)								5 pCi/l	SDWA

Footnotes:

A This human health criterion is the same as originally published in the Red Book which predates the 1980 methodology and did not utilize the fish ingestion BCF approach. This same criterion value is now published in the Gold Book.

B The organoleptic effect criterion is more stringent than the value presented in the non priority pollutants table.

C According to the procedures described in the *Guidelines for Deriving Numerical National Water Quality Criteria for the Protection of Aquatic Organisms and Their Uses*, except possibly where a very sensitive species is important at a site, freshwater aquatic life should be protected if both conditions specified in Attachment 3 - Calculation of Freshwater Ammonia Criterion are satisfied.

D This criterion has been revised to reflect The Environmental Protection Agency's q1* or RfD, as contained in the Integrated Risk Information System (IRIS) as of April 8, 1998. The fish tissue bioconcentration factor (BCF) used to derive the original criterion was retained in each case.

E The derivation of this value is presented in the Red Book (EPA 440/9-76-023, July, 1976).

F This value is based on a 304(a) aquatic life criterion that was derived using the 1985 Guidelines (*Guidelines for Deriving Numerical National Water Quality Criteria for the Protection of Aquatic Organisms and Their Uses*, PB85-227049, January 1985) and was issued in the following criteria document: Chloropyrifos (EPA 440/5-86-005).

G A more stringent Maximum Residual Disinfection Level (MRDL) has been issued by EPA under the Safe Drinking Water Act. Refer to S.C. Regulation 61-58, *State Primary Drinking Water Regulations*.

H This value is based on a 304(a) aquatic life criterion that was issued in the *1995 Updates: Water Quality Criteria Documents for the Protection of Aquatic Life in Ambient Water* (EPA-820-B-96-001). This value was derived using the GLI Guidelines (60FR15393-15399, March 23, 1995; 40CFR132 Appendix A); the differences between the 1985 Guidelines and the GLI Guidelines are explained on page iv of the 1995 Updates. No decision concerning this criterion was affected by any considerations that are specific to the Great Lakes.

I South Carolina has established some site-specific standards for pH. These site-specific standards are listed in S.C. Regulation 61-69, *Classified Waters*.

J U.S. EPA, 1976, Quality Criteria for Water 1976.

K South Carolina has established numeric criteria in Section G for waters of the State based on the protection of warmwater and coldwater species. For the exception to be used for waters of the State that do not meet the numeric criteria established for the waterbody due to natural conditions, South Carolina has specified the allowable deficit in Section D.4. and used the following document as a source. U.S. EPA, 1986, Ambient Water Quality Criteria for Dissolved Oxygen, EPA 440/5-86-003, National Technical Information Service, Springfield, VA. South Carolina has established some site-specific standards for DO. These site-specific standards are listed in S.C. Regulation 61-69, *Classified Waters.*

L This criterion is a noncarcinogen. As prescribed in Section E of this regulation, application of this criterion for determining permit effluent limitations requires the use of 7Q10 or comparable tidal condition as determined by the Department

M This criterion is based on an added carcinogenicity risk. As prescribed in Section E of this regulation, application of this criterion for permit effluent limitations requires the use annual average flow or comparable tidal condition as determined by the Department.

ORGANOLEPTIC EFFECTS

Pollutant		CAS Number	Organoleptic Effect Criteria (µg/L)	FR Cite/Source
1	Acenaphthene	83329	20	Gold Book
2	Chlorobenzene	108907	20	Gold Book
3	3-Chlorophenol		0.1	Gold Book
4	4-Chlorophenol	106489	0.1	Gold Book
5	2, 3-Dichlorophenol		0.04	Gold Book

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = OW; R = ORD; N = WI; W = TEF applied; E = RPF applied; G = see user's guide; c = cancer; n = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values are based on DAF=1; m = ceiling limit exceeded; s = Csat exceeded; V = volatile; M = mutagen.

Toxicity and Chemical-specific Information															Contaminant		Carcinogenic Target Risk (TR) = 1E-06				Noncancer Child Hazard Index (HI) = 0.1			
SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfD_o (mg/kg-day)	key	RfC_i (mg/m^3)	key	volatile	mutagen	C_{sat} (mg/kg)	PEF (m^3/kg)	VF (m^3/kg)	GIABS	ABS_d	Analyte	CAS No.	Ingestion SL TR=1E-06 (mg/kg)	Dermal SL TR=1E-06 (mg/kg)	Inhalation SL TR=1E-06 (mg/kg)	Carcinogenic SL TR=1E-06 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)	Noncarcinogenic SL Child THI=0.1 (mg/kg)
				3.0E-04	O						1.36E+09		1	0.1	Acephate	30560-19-1					2.3E+00	9.9E+00		1.9E+00
		2.2E-06	I			9.0E-03	I	V		1.07E+05	1.36E+09	8.72E+03	1		Acetaldehyde	75-07-0			1.1E+01	1.1E+01			8.2E+00	8.2E+00
				2.0E-02	I						1.36E+09		1	0.1	Acetochlor	34256-82-1					1.6E+02	6.6E+02		1.3E+02
				9.0E-01	I			V		1.14E+05	1.36E+09	1.37E+04	1		Acetone	67-64-1					7.0E+03			7.0E+03
						2.0E-03	X				1.36E+09		1	0.1	Acetone Cyanohydrin	75-86-5							2.8E+05	2.8E+05
						6.0E-02	I	V		1.28E+05	1.36E+09	1.30E+04	1		Acetonitrile	75-05-8							8.1E+01	8.1E+01
				1.0E-01	I			V		2.52E+03	1.36E+09	5.97E+04	1		Acetophenone	98-86-2					7.8E+02			7.8E+02
3.8E+00	C	1.3E-03	C								1.36E+09		1	0.1	Acetylaminofluorene, 2-	53-96-3	1.8E-01	6.5E-01	2.9E+03	1.4E-01				
				5.0E-04	I	2.0E-05	I	V		2.27E+04	1.36E+09	6.91E+03	1		Acrolein	107-02-8					3.9E+00		1.4E-02	1.4E-02
5.0E-01	I	1.0E-04	I	2.0E-03	I	6.0E-03	I		M		1.36E+09		1	0.1	Acrylamide	79-06-1	3.1E-01	1.2E+00	1.4E+04	2.4E-01	1.6E+01	6.6E+01	8.5E+05	1.3E+01
				5.0E-01	I	2.0E-04	P	V		1.09E+05	1.36E+09	9.53E+04	1		Acrylic Acid	79-10-7					3.9E+03		2.0E+00	2.0E+00
5.4E-01	I	6.8E-05	I	1.0E-03	H	2.0E-03	I	V		1.13E+04	1.36E+09	7.69E+03	1		Acrylonitrile	107-13-1	1.3E+00		3.2E-01	2.5E-01	7.8E+00		1.6E+00	1.3E+00
						6.0E-03	P				1.36E+09		1	0.1	Adiponitrile	111-69-3							8.5E+05	8.5E+05
5.6E-02	C			1.0E-02	I						1.36E+09		1	0.1	Alachlor	15972-60-8	1.2E+01	4.4E+01		9.7E+00	7.8E+01	3.3E+02		6.3E+01
				1.0E-03	I						1.36E+09		1	0.1	Aldicarb	116-06-3					7.8E+00	3.3E+01		6.3E+00
				1.0E-03	I						1.36E+09		1	0.1	Aldicarb Sulfone	1646-88-4					7.8E+00	3.3E+01		6.3E+00
											1.36E+09		1	0.1	Aldicarb sulfoxide	1646-87-3								
1.7E+01	I	4.9E-03	I	3.0E-05	I			V			1.36E+09	1.72E+06	1		Aldrin	309-00-2	4.1E-02		9.8E-01	3.9E-02	2.3E-01			2.3E-01
				4.0E-03	P	1.0E-04	X	V		1.11E+05	1.36E+09	3.42E+04	1		Allyl Alcohol	107-18-6					3.1E+01		3.6E-01	3.5E-01
2.1E-02	C	6.0E-06	C			1.0E-03	I	V		1.42E+03	1.36E+09	1.58E+03	1		Allyl Chloride	107-05-1	3.3E+01		7.4E-01	7.2E-01			1.7E-01	1.7E-01
				1.0E+00	P	5.0E-03	P				1.36E+09		1		Aluminum	7429-90-5					7.8E+03		7.1E+05	7.7E+03
				4.0E-04	I						1.36E+09		1		Aluminum Phosphide	20859-73-8					3.1E+00			3.1E+00
				9.0E-03	I						1.36E+09		1	0.1	Ametryn	834-12-8					7.0E+01	3.0E+02		5.7E+01
2.1E+01	C	6.0E-03	C								1.36E+09		1	0.1	Aminobiphenyl, 4-	92-67-1	3.3E-02	1.2E-01	6.4E+02	2.6E-02				
				8.0E-02	P						1.36E+09		1	0.1	Aminophenol, m-	591-27-5					6.3E+02	2.6E+03		5.1E+02
				4.0E-03	X						1.36E+09		1	0.1	Aminophenol, o-	95-55-6					3.1E+01	1.3E+02		2.5E+01
				2.0E-02	P						1.36E+09		1	0.1	Aminophenol, p-	123-30-8					1.6E+02	6.6E+02		1.3E+02
				2.5E-03	I						1.36E+09		1	0.1	Amitraz	33089-61-1					2.0E+01	8.2E+01		1.6E+01
						5.0E-01	I	V					1		Ammonia	7664-41-7								
				2.0E-03	X						1.36E+09		1	0.1	Ammonium Picrate	131-74-8					1.6E+01	6.6E+01		1.3E+01
				2.0E-01	I						1.36E+09		1		Ammonium Sulfamate	7773-06-0					1.6E+03			1.6E+03
						3.0E-03	X	V		1.37E+04	1.36E+09	2.62E+04	1		Amyl Alcohol, tert-	75-85-4							8.2E+00	8.2E+00
5.7E-03	I	1.6E-06	C	7.0E-03	P	1.0E-03	I				1.36E+09		1	0.1	Aniline	62-53-3	1.2E+02	4.3E+02	2.4E+06	9.5E+01	5.5E+01	2.3E+02	1.4E+05	4.4E+01
4.0E-02	P			2.0E-03	X						1.36E+09		1	0.1	Anthraquinone, 9,10-	84-65-1	1.7E+01	6.2E+01		1.4E+01	1.6E+01	6.6E+01		1.3E+01
				4.0E-04	I	3.0E-04	A				1.36E+09		0.15		Antimony (metallic)	7440-36-0					3.1E+00		4.3E+04	3.1E+00
				5.0E-04	H						1.36E+09		0.15		Antimony Pentoxide	1314-60-9					3.9E+00			3.9E+00
				4.0E-04	H						1.36E+09		0.15		Antimony Tetroxide	1332-81-6					3.1E+00			3.1E+00
						2.0E-04	I				1.36E+09		0.15		Antimony Trioxide	1309-64-4							2.8E+04	2.8E+04
1.5E+00	I	4.3E-03	I	3.0E-04	I	1.5E-05	C				1.36E+09		1	0.03	Arsenic, Inorganic	7440-38-2	7.7E-01	5.5E+00	8.9E+02	6.8E-01	3.9E+00	3.3E+01	2.1E+03	3.5E+00
				3.5E-06	C	5.0E-05	I				1.36E+09		1		Arsine	7784-42-1					2.7E-02		7.1E+03	2.7E-02
													1		Asbestos (units in fibers)	1332-21-4								
				3.6E-01	O						1.36E+09		1	0.1	Asulam	3337-71-1					2.8E+03	1.2E+04		2.3E+03
2.3E-01	C			3.0E-03	A						1.36E+09		1	0.1	Atrazine	1912-24-9	3.0E+00	1.1E+01		2.4E+00	2.3E+01	9.9E+01		1.9E+01
8.8E-01	C	2.5E-04	C								1.36E+09		1	0.1	Auramine	492-80-8	7.9E-01	2.8E+00	1.5E+04	6.2E-01				
				4.0E-04	I						1.36E+09		1	0.1	Avermectin B1	65195-55-3					3.1E+00	1.3E+01		2.5E+00
				3.0E-03	A	1.0E-02	A				1.36E+09		1	0.1	Azinphos-methyl	86-50-0					2.3E+01	9.9E+01	1.4E+06	1.9E+01
1.1E-01	I	3.1E-05	I					V			1.36E+09	5.23E+05	1		Azobenzene	103-33-3	6.3E+00		4.7E+01	5.6E+00				
				1.0E+00	P	7.0E-06	P				1.36E+09		1	0.1	Azodicarbonamide	123-77-3					7.8E+03	3.3E+04	9.9E+02	8.6E+02
				2.0E-01	I	5.0E-04	H				1.36E+09		0.07		Barium	7440-39-3					1.6E+03		7.1E+04	1.5E+03
				5.0E-03	O			V			1.36E+09	3.07E+05	1		Benfluralin	1861-40-1					3.9E+01			3.9E+01
				5.0E-02	I						1.36E+09		1	0.1	Benomyl	17804-35-2					3.9E+02	1.6E+03		3.2E+02
				2.0E-01	I						1.36E+09		1	0.1	Bensulfuron-methyl	83055-99-6					1.6E+03	6.6E+03		1.3E+03
				3.0E-02	I						1.36E+09		1	0.1	Bentazon	25057-89-0					2.3E+02	9.9E+02		1.9E+02
4.0E-03	P			1.0E-01	I			V		1.16E+03	1.36E+09	2.25E+04	1		Benzaldehyde	100-52-7	1.7E+02			1.7E+02	7.8E+02			7.8E+02
5.5E-02	I	7.8E-06	I	4.0E-03	I	3.0E-02	I	V		1.82E+03	1.36E+09	3.54E+03	1		Benzene	71-43-2	1.3E+01		1.3E+00	1.2E+00	3.1E+01		1.1E+01	8.2E+00
1.0E-01	X			3.0E-04	X						1.36E+09		1	0.1	Benzenediamine-2-methyl sulfate, 1,4-	6369-59-1	7.0E+00	2.5E+01		5.4E+00	2.3E+00	9.9E+00		1.9E+00
				1.0E-03	P			V		1.26E+03	1.36E+09	1.94E+04	1		Benzenethiol	108-98-5					7.8E+00			7.8E+00
2.3E+02	I	6.7E-02	I	3.0E-03	I				M		1.36E+09		1	0.1	Benzidine	92-87-5	6.7E-04	2.6E-03	2.1E+01	5.3E-04	2.3E+01	9.9E+01		1.9E+01
				4.0E+00	I						1.36E+09		1	0.1	Benzoic Acid	65-85-0					3.1E+04	1.3E+05		2.5E+04
1.3E+01	I							V		3.24E+02	1.36E+09	6.76E+04	1		Benzotrichloride	98-07-7	5.3E-02			5.3E-02				
				1.0E-01	P						1.36E+09		1	0.1	Benzyl Alcohol	100-51-6					7.8E+02	3.3E+03		6.3E+02
1.7E-01	I	4.9E-05	C	2.0E-03	P	1.0E-03	P	V		1.46E+03	1.36E+09	2.55E+04	1		Benzyl Chloride	100-44-7	4.1E+00		1.5E+00	1.1E+00	1.6E+01		2.7E+00	2.3E+00
		2.4E-03	I	2.0E-03	I	2.0E-05	I				1.36E+09		0.007		Beryllium and compounds	7440-41-7			1.6E+03	1.6E+03	1.6E+01		2.8E+03	1.6E+01
				9.0E-03	P						1.36E+09		1	0.1	Bifenox	42576-02-3					7.0E+01	3.0E+02		5.7E+01
				1.5E-02	I						1.36E+09		1	0.1	Biphenthrin	82657-04-3					1.2E+02	4.9E+02		9.5E+01
8.0E-03	I			5.0E-01	I	4.0E-04	X	V			1.36E+09	1.14E+05	1		Biphenyl, 1,1'-	92-52-4	8.7E+01			8.7E+01	3.9E+03		4.8E+00	4.7E+00
				4.0E-02	I			V		1.02E+03	1.36E+09	3.50E+04	1		Bis(2-chloro-1-methylethyl) ether	108-60-1					3.1E+02			3.1E+02
				3.0E-03	P						1.36E+09		1	0.1	Bis(2-chloroethoxy)methane	111-91-1					2.3E+01	9.9E+01		1.9E+01
1.1E+00	I	3.3E-04	I					V		5.05E+03	1.36E+09	4.25E+04	1		Bis(2-chloroethyl)ether	111-44-4	6.3E-01		3.6E-01	2.3E-01				
2.2E+02	I	6.2E-02	I					V		4.22E+03	1.36E+09	1.88E+03	1		Bis(chloromethyl)ether	542-88-1	3.2E-03		8.5E-05	8.3E-05				
				5.0E-02	I						1.36E+09		1	0.1	Bisphenol A	80-05-7					3.9E+02	1.6E+03		3.2E+02
				2.0E-01	I	2.0E-02	H				1.36E+09		1		Boron And Borates Only	7440-42-8					1.6E+03		2.8E+06	1.6E+03
				2.0E+00	P	2.0E-02	P	V			1.36E+09		1		Boron Trichloride	10294-34-5					1.6E+04		2.8E+06	1.6E+04
				4.0E-02	C	1.3E-02	C	V			1.36E+09		1		Boron Trifluoride	7637-07-2					3.1E+02		1.8E+06	3.1E+02
7.0E-01	I	1.4E-04	C	4.0E-03	I						1.36E+09		1		Bromate	15541-45-4	9.9E-01		2.7E+04	9.9E-01	3.1E+01			3.1E+01
				1.0E-04	X	6.0E-05	X	V		2.38E+03	1.36E+09	5.92E+03	1		Bromo-2-chloroethane, 1-	107-04-0					7.8E-01		3.7E-02	3.5E-02
				3.0E-04	X			V		8.96E+02	1.36E+09	1.12E+04	1		Bromo-3-fluorobenzene, 1-	1073-06-9					2.3E+00			2.3E+00
				3.0E-04	X			V		3.23E+02	1.36E+09	1.14E+04	1		Bromo-4-fluorobenzene, 1-	460-00-4					2.3E+00			2.3E+00
				1.7E-03	C						1.36E+09		1	0.1	Bromoacetic acid	79-08-3					1.3E+01	5.6E+01		1.1E+01
				8.0E-03	I	6.0E-02	I	V		6.79E+02	1.36E+09	8.37E+03	1		Bromobenzene	108-86-1					6.3E+01		5.2E+01	2.9E+01
						4.0E-02	X	V		4.04E+03	1.36E+09	3.58E+03	1		Bromochloromethane	74-97-5							1.5E+01	1.5E+01
6.2E-02	I	3.7E-05	C	8.0E-03	P			V		9.32E+02	1.36E+09	3.97E+03	1		Bromodichloromethane	75-27-4	1.1E+01		3.0E-01	2.9E-01	6.3E+01			6.3E+01
7.9E-03	I	1.1E-06	I	2.0E-02	I			V		9.15E+02	1.36E+09	9.70E+03	1		Bromoform	75-25-2	8.8E+01		2.5E+01	1.9E+01	1.6E+02			1.6E+02

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = OW; R = ORD; N = WI; W = TEF applied; E = RPF applied; G = see user's guide; c = cancer; n = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values are based on DAF=1; m = ceiling limit exceeded; s = Csat exceeded; V = volatile; M = mutagen.

Toxicity and Chemical-specific Information															Contaminant		Carcinogenic Target Risk (TR) = 1E-06				Noncancer Child Hazard Index (HI) = 0.1			
SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfD_o (mg/kg-day)	key	RfC_i (mg/m^3)	key	vol	mutagen	C_{sat} (mg/kg)	PEF (m^3/kg)	VF (m^3/kg)	GIABS	ABS_d	Analyte	CAS No.	Ingestion SL TR=1E-06 (mg/kg)	Dermal SL TR=1E-06 (mg/kg)	Inhalation SL TR=1E-06 (mg/kg)	Carcinogenic SL TR=1E-06 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)	Noncarcinogenic SL Child THI=0.1 (mg/kg)
				1.4E-03	I	5.0E-03	I	V		3.59E+03	1.36E+09	1.40E+03	1		Bromomethane	74-83-9					1.1E+01		7.3E-01	6.8E-01
				5.0E-03	H			V			1.36E+09	1.24E+05	1		Bromophos	2104-96-3					3.9E+01			3.9E+01
		3.7E-06	C			1.0E-01	A	V		9.66E+02	1.36E+09	2.14E+03	1		Bromopropane, 1-	106-94-5			1.6E+00	1.6E+00			2.2E+01	2.2E+01
1.0E-01	O			1.5E-02	O						1.36E+09		1	0.1	Bromoxynil	1689-84-5	6.7E+00	2.4E+01		5.3E+00	1.2E+02	4.9E+02		9.5E+01
1.0E-01	O			1.5E-02	O			V			1.36E+09	4.74E+05	1		Bromoxynil Octanoate	1689-99-2	6.7E+00			6.7E+00	1.2E+02			1.2E+02
6.0E-01	C	3.0E-05	I			2.0E-03	I	V		6.67E+02	1.36E+09	8.66E+02	1		Butadiene, 1,3-	106-99-0	1.2E+00		8.1E-02	7.6E-02			1.8E-01	1.8E-01
				1.0E-01	I			V		7.64E+03	1.36E+09	3.00E+04	1		Butanol, N-	71-36-3					7.8E+02			7.8E+02
5.0E-04	I			4.0E-01	I	5.0E+00	I	V			1.36E+09	2.87E+04	1		Butyl Alcohol, t-	75-65-0	1.4E+03			1.4E+03	3.1E+03		1.5E+04	2.6E+03
				2.0E+00	P	3.0E+01	P	V		2.13E+04	1.36E+09	2.92E+04	1		Butyl alcohol, sec-	78-92-2					1.6E+04		9.1E+04	1.3E+04
				5.0E-02	I			V			1.36E+09	8.63E+04	1		Butylate	2008-41-5					3.9E+02			3.9E+02
2.0E-04	C	5.7E-08	C								1.36E+09		1	0.1	Butylated hydroxyanisole	25013-16-5	3.5E+03	1.2E+04	6.7E+07	2.7E+03				
3.6E-03	P			3.0E-01	P						1.36E+09		1	0.1	Butylated hydroxytoluene	128-37-0	1.9E+02	6.9E+02		1.5E+02	2.3E+03	9.9E+03		1.9E+03
				5.0E-02	P			V		1.08E+02	1.36E+09	8.14E+03	1		Butylbenzene, n-	104-51-8					3.9E+02			3.9E+02
				1.0E-01	X			V		1.45E+02	1.36E+09	7.35E+03	1		Butylbenzene, sec-	135-98-8					7.8E+02			7.8E+02
				1.0E-01	X			V		1.83E+02	1.36E+09	7.36E+03	1		Butylbenzene, tert-	98-06-6					7.8E+02			7.8E+02
				2.0E-02	A						1.36E+09		1	0.1	Cacodylic Acid	75-60-5					1.6E+02	6.6E+02		1.3E+02
		1.8E-03	I	1.0E-04	A	1.0E-05	A				1.36E+09		0.025	0.001	Cadmium (Diet)	7440-43-9			2.1E+03	2.1E+03	7.8E-01	8.2E+00	1.4E+03	7.1E-01
		1.8E-03	I	1.0E-04	A	1.0E-05	A						0.05	0.001	Cadmium (Water)	7440-43-9								
				5.0E-01	I	2.2E-03	C				1.36E+09		1	0.1	Caprolactam	105-60-2					3.9E+03	1.6E+04	3.1E+05	3.1E+03
1.5E-01	C	4.3E-05	C	2.0E-03	I						1.36E+09		1	0.1	Captafol	2425-06-1	4.6E+00	1.6E+01	8.9E+04	3.6E+00	1.6E+01	6.6E+01		1.3E+01
2.3E-03	C	6.6E-07	C	1.3E-01	I						1.36E+09		1	0.1	Captan	133-06-2	3.0E+02	1.1E+03	5.8E+06	2.4E+02	1.0E+03	4.3E+03		8.2E+02
				1.0E-01	I						1.36E+09		1	0.1	Carbaryl	63-25-2					7.8E+02	3.3E+03		6.3E+02
				5.0E-03	I						1.36E+09		1	0.1	Carbofuran	1563-66-2					3.9E+01	1.6E+02		3.2E+01
				1.0E-01	I	7.0E-01	I	V		7.38E+02	1.36E+09	1.17E+03	1		Carbon Disulfide	75-15-0					7.8E+02		8.5E+01	7.7E+01
7.0E-02	I	6.0E-06	I	4.0E-03	I	1.0E-01	I	V		4.58E+02	1.36E+09	1.49E+03	1		Carbon Tetrachloride	56-23-5	9.9E+00		7.0E-01	6.5E-01	3.1E+01		1.6E+01	1.0E+01
						1.0E-01	P	V		5.89E+03	1.36E+09	6.46E+02	1		Carbonyl Sulfide	463-58-1							6.7E+00	6.7E+00
				1.0E-02	I						1.36E+09		1	0.1	Carbosulfan	55285-14-8					7.8E+01	3.3E+02		6.3E+01
				1.0E-01	I						1.36E+09		1	0.1	Carboxin	5234-68-4					7.8E+02	3.3E+03		6.3E+02
						9.0E-04	I				1.36E+09		1		Ceric oxide	1306-38-3							1.3E+05	1.3E+05
				1.0E-01	I			V			1.36E+09	1.45E+05	1		Chloral Hydrate	302-17-0					7.8E+02			7.8E+02
				1.5E-02	I						1.36E+09		1	0.1	Chloramben	133-90-4					1.2E+02	4.9E+02		9.5E+01
											1.36E+09		1	0.1	Chloramines, Organic	E701235								
4.0E-01	H										1.36E+09		1	0.1	Chloranil	118-75-2	1.7E+00	6.1E+00		1.3E+00				
				5.0E-04	G			V			1.36E+09	1.49E+06	1	0.04	Chlordane (alpha)	5103-71-9					3.9E+00	4.1E+01		3.6E+00
				5.0E-04	G			V			1.36E+09	1.49E+06	1	0.04	Chlordane (gamma)	5103-74-2					3.9E+00	4.1E+01		3.6E+00
3.5E-01	I	1.0E-04	I	5.0E-04	I	7.0E-04	I	V			1.36E+09	1.53E+06	1	0.04	Chlordane (technical mixture)	12789-03-6	2.0E+00	1.8E+01	4.3E+01	1.7E+00	3.9E+00	4.1E+01	1.1E+02	3.5E+00
1.0E+01	I	4.6E-03	C	3.0E-04	I						1.36E+09		1	0.1	Chlordecone (Kepone)	143-50-0	7.0E-02	2.5E-01	8.3E+02	5.4E-02	2.3E+00	9.9E+00		1.9E+00
				7.0E-04	A						1.36E+09		1	0.1	Chlorfenvinphos	470-90-6					5.5E+00	2.3E+01		4.4E+00
				9.0E-02	O						1.36E+09		1	0.1	Chlorimuron, Ethyl-	90982-32-4					7.0E+02	3.0E+03		5.7E+02
				1.0E-01	I	1.5E-04	A	V		2.78E+03	1.36E+09	1.22E+03	1		Chlorine	7782-50-5					7.8E+02		1.8E-02	1.8E-02
				3.0E-02	I	2.0E-04	I	V			1.36E+09		1		Chlorine Dioxide	10049-04-4					2.3E+02		2.8E+04	2.3E+02
				3.0E-02	I						1.36E+09		1		Chlorite (Sodium Salt)	7758-19-2					2.3E+02			2.3E+02
						5.0E+01	I	V		1.15E+03	1.36E+09	1.03E+03	1		Chloro-1,1-difluoroethane, 1-	75-68-3							5.4E+03	5.4E+03
		3.0E-04	I	2.0E-02	H	2.0E-02	I	V		7.86E+02	1.36E+09	1.08E+03	1		Chloro-1,3-butadiene, 2- (Chloroprene)	126-99-8			1.0E-02	1.0E-02	1.6E+02		2.2E+00	2.2E+00
4.6E-01	H										1.36E+09		1	0.1	Chloro-2-methylaniline HCl, 4-	3165-93-3	1.5E+00	5.4E+00		1.2E+00				
1.0E-01	P	7.7E-05	C	3.0E-03	X						1.36E+09		1	0.1	Chloro-2-methylaniline, 4-	95-69-2	7.0E+00	2.5E+01	5.0E+04	5.4E+00	2.3E+01	9.9E+01		1.9E+01
2.7E-01	X							V		1.18E+04	1.36E+09	1.62E+04	1		Chloroacetaldehyde, 2-	107-20-0	2.6E+00			2.6E+00				
				3.5E-03	C						1.36E+09		1	0.1	Chloroacetic Acid	79-11-8					2.7E+01	1.2E+02		2.2E+01
						3.0E-05	I				1.36E+09		1	0.1	Chloroacetophenone, 2-	532-27-4							4.3E+03	4.3E+03
2.0E-01	P			5.0E-04	P						1.36E+09		1	0.1	Chloroaniline, p-	106-47-8	3.5E+00	1.2E+01		2.7E+00	3.9E+00	1.6E+01		3.2E+00
				2.0E-02	I	5.0E-02	P	V		7.61E+02	1.36E+09	6.45E+03	1		Chlorobenzene	108-90-7					1.6E+02		3.4E+01	2.8E+01
				1.0E-01	X						1.36E+09		1	0.1	Chlorobenzene sulfonic acid, p-	98-66-8					7.8E+02	3.3E+03		6.3E+02
1.1E-01	C	3.1E-05	C	2.0E-02	I						1.36E+09		1	0.1	Chlorobenzilate	510-15-6	6.3E+00	2.2E+01	1.2E+05	4.9E+00	1.6E+02	6.6E+02		1.3E+02
				3.0E-02	X						1.36E+09		1	0.1	Chlorobenzoic Acid, p-	74-11-3					2.3E+02	9.9E+02		1.9E+02
		8.6E-06	C	3.0E-03	P	3.0E-01	P	V		2.90E+02	1.36E+09	6.76E+03	1		Chlorobenzotrifluoride, 4-	98-56-6			2.2E+00	2.2E+00	2.3E+01		2.1E+02	2.1E+01
				4.0E-02	P			V		7.28E+02	1.36E+09	1.76E+03	1		Chlorobutane, 1-	109-69-3					3.1E+02			3.1E+02
						5.0E+01	I	V		1.68E+03	1.36E+09	9.38E+02	1		Chlorodifluoromethane	75-45-6							4.9E+03	4.9E+03
				2.0E-02	P			V		1.11E+05	1.36E+09	7.81E+04	1		Chloroethanol, 2-	107-07-3					1.6E+02			1.6E+02
3.1E-02	C	2.3E-05	I	1.0E-02	I	9.8E-02	A	V		2.54E+03	1.36E+09	2.63E+03	1		Chloroform	67-66-3	2.2E+01		3.2E-01	3.2E-01	7.8E+01		2.7E+01	2.0E+01
						9.0E-02	I	V		1.32E+03	1.36E+09	1.18E+03	1		Chloromethane	74-87-3							1.1E+01	1.1E+01
2.4E+00	C	6.9E-04	C					V		9.32E+03	1.36E+09	5.33E+03	1		Chloromethyl Methyl Ether	107-30-2	2.9E-01		2.2E-02	2.0E-02				
3.0E-01	P			3.0E-03	P	1.0E-05	X				1.36E+09		1	0.1	Chloronitrobenzene, o-	88-73-3	2.3E+00	8.2E+00		1.8E+00	2.3E+01	9.9E+01	1.4E+03	1.9E+01
6.0E-02	P			7.0E-04	P	2.0E-03	P				1.36E+09		1	0.1	Chloronitrobenzene, p-	100-00-5	1.2E+01	4.1E+01		9.0E+00	5.5E+00	2.3E+01	2.8E+05	4.4E+00
				5.0E-03	I			V		2.74E+04	1.36E+09	1.39E+05	1		Chlorophenol, 2-	95-57-8					3.9E+01			3.9E+01
						4.0E-04	C	V		6.17E+02	1.36E+09	4.68E+03	1		Chloropicrin	76-06-2							2.0E-01	2.0E-01
1.7E-02	C			1.5E-02	I						1.36E+09		1	0.1	Chlorothalonil	1897-45-6	4.1E+01	1.5E+02		3.2E+01	1.2E+02	4.9E+02		9.5E+01
				2.0E-02	I			V		9.07E+02	1.36E+09	8.12E+03	1		Chlorotoluene, o-	95-49-8					1.6E+02			1.6E+02
				2.0E-02	X			V		2.53E+02	1.36E+09	7.29E+03	1		Chlorotoluene, p-	106-43-4					1.6E+02			1.6E+02
2.4E+02	C	6.9E-02	C								1.36E+09		1	0.1	Chlorozotocin	54749-90-5	2.9E-03	1.0E-02	5.5E+01	2.3E-03				
				5.0E-03	O						1.36E+09		1	0.1	Chlorpropham	101-21-3					3.9E+01	1.6E+02		3.2E+01
				1.0E-03	A						1.36E+09		1	0.1	Chlorpyrifos	2921-88-2					7.8E+00	3.3E+01		6.3E+00
				1.0E-02	H						1.36E+09		1	0.1	Chlorpyrifos Methyl	5598-13-0					7.8E+01	3.3E+02		6.3E+01
				5.0E-02	O						1.36E+09		1	0.1	Chlorsulfuron	64902-72-3					3.9E+02	1.6E+03		3.2E+02
				1.0E-02	I						1.36E+09		1	0.1	Chlorthal-dimethyl	1861-32-1					7.8E+01	3.3E+02		6.3E+01
				8.0E-04	H						1.36E+09		1	0.1	Chlorthiophos	60238-56-4					6.3E+00	2.6E+01		5.1E+00
						6.0E-05	C				1.36E+09		1		Chromium(III) (Soluble Compounds)	16065-83-1							8.5E+03	8.5E+03
				1.5E+00	I						1.36E+09		0.013		Chromium(III), Insoluble Salts	16065-83-1					1.2E+04			1.2E+04
5.0E-01	C	8.4E-02	G	3.0E-03	I	1.0E-04	I		M		1.36E+09		0.025		Chromium(VI)	18540-29-9	3.1E-01		1.6E+01	3.0E-01	2.3E+01		1.4E+04	2.3E+01
											1.36E+09		0.013		Chromium, Total	7440-47-3								
				1.3E-02	I						1.36E+09		1	0.1	Clofentezine	74115-24-5					1.0E+02	4.3E+02		8.2E+01
		9.0E-03	P	3.0E-04	P	6.0E-06	P				1.36E+09		1		Cobalt	7440-48-4			4.2E+02	4.2E+02	2.3E+00		8.5E+02	2.3E+00
		6.2E-04	I					V	M				1		Coke Oven Emissions	E649830								
				4.0E-02	H						1.36E+09		1		Copper	7440-50-8					3.1E+02			3.1E+02

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = OW; R = ORD; N = WI; W = TEF applied; E = RPF applied; G = see user's guide; c = cancer; n = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values are based on DAF=1; m = ceiling limit exceeded; s = Csat exceeded; V = volatile; M = mutagen.

Toxicity and Chemical-specific Information															Contaminant		Carcinogenic Target Risk (TR) = 1E-06				Noncancer Child Hazard Index (HI) = 0.1			
SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfD_o (mg/kg-day)	key	RfC_i (mg/m^3)	key	volatile	mutagen	C_{sat} (mg/kg)	PEF (m^3/kg)	VF (m^3/kg)	GIABS	ABS_d	Analyte	CAS No.	Ingestion SL TR=1E-06 (mg/kg)	Dermal SL TR=1E-06 (mg/kg)	Inhalation SL TR=1E-06 (mg/kg)	Carcinogenic SL TR=1E-06 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)	Noncarcinogenic SL Child THI=0.1 (mg/kg)
				5.0E-02	I	6.0E-01	C				1.36E+09		1	0.1	Cresol, m-	108-39-4					3.9E+02	1.6E+03	8.5E+07	3.2E+02
				5.0E-02	I	6.0E-01	C				1.36E+09		1	0.1	Cresol, o-	95-48-7					3.9E+02	1.6E+03	8.5E+07	3.2E+02
				2.0E-02	P	6.0E-01	C				1.36E+09		1	0.1	Cresol, p-	106-44-5					1.6E+02	6.6E+02	8.5E+07	1.3E+02
				1.0E-01	A						1.36E+09		1	0.1	Cresol, p-chloro-m-	59-50-7					7.8E+02	3.3E+03		6.3E+02
				1.0E-01	A	6.0E-01	C				1.36E+09		1	0.1	Cresols	1319-77-3					7.8E+02	3.3E+03	8.5E+07	6.3E+02
1.9E+00	H			1.0E-03	P			V		1.66E+04	1.36E+09	1.89E+04	1		Crotonaldehyde, trans-	123-73-9	3.7E-01			3.7E-01	7.8E+00			7.8E+00
				1.0E-01	I	4.0E-01	I	V		2.68E+02	1.36E+09	6.21E+03	1		Cumene	98-82-8					7.8E+02		2.6E+02	1.9E+02
2.2E-01	C	6.3E-05	C								1.36E+09		1	0.1	Cupferron	135-20-6	3.2E+00	1.1E+01	6.1E+04	2.5E+00				
8.4E-01	H			2.0E-03	H						1.36E+09		1	0.1	Cyanazine	21725-46-2	8.3E-01	2.9E+00		6.5E-01	1.6E+01	6.6E+01		1.3E+01
															Cyanides									
				1.0E-03	I	9.0E-03	C				1.36E+09		1		~Calcium Cyanide	592-01-8					7.8E+00		1.3E+06	7.8E+00
				5.0E-03	I						1.36E+09		1		~Copper Cyanide	544-92-3					3.9E+01			3.9E+01
				6.0E-04	I	8.0E-04	G	V		9.54E+05	1.36E+09	5.33E+04	1		~Cyanide (CN-)	57-12-5					4.7E+00		4.4E+00	2.3E+00
				1.0E-03	I			V			1.36E+09		1		~Cyanogen	460-19-5					7.8E+00			7.8E+00
				9.0E-02	I			V			1.36E+09		1		~Cyanogen Bromide	506-68-3					7.0E+02			7.0E+02
				5.0E-02	I			V			1.36E+09		1		~Cyanogen Chloride	506-77-4					3.9E+02			3.9E+02
				6.0E-04	I	8.0E-04	I	V		1.00E+07	1.36E+09	5.22E+04	1		~Hydrogen Cyanide	74-90-8					4.7E+00		4.4E+00	2.3E+00
				2.0E-03	I	9.0E-03	C				1.36E+09		1		~Potassium Cyanide	151-50-8					1.6E+01		1.3E+06	1.6E+01
				5.0E-03	I						1.36E+09		0.04		~Potassium Silver Cyanide	506-61-6					3.9E+01			3.9E+01
				1.0E-01	I						1.36E+09		0.04		~Silver Cyanide	506-64-9					7.8E+02			7.8E+02
				1.0E-03	I	9.0E-03	C				1.36E+09		1		~Sodium Cyanide	143-33-9					7.8E+00		1.3E+06	7.8E+00
				2.0E-04	P						1.36E+09		1		~Thiocyanates	E1790665					1.6E+00			1.6E+00
				2.0E-04	X			V			1.36E+09		1		~Thiocyanic Acid	463-56-9					1.6E+00			1.6E+00
				5.0E-02	I						1.36E+09		1		~Zinc Cyanide	557-21-1					3.9E+02			3.9E+02
						6.0E+00	I	V		1.17E+02	1.36E+09	1.04E+03	1		Cyclohexane	110-82-7							6.5E+02	6.5E+02
2.0E-02	X			2.0E-02	X						1.36E+09		1	0.1	Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	87-84-3	3.5E+01	1.2E+02		2.7E+01	1.6E+02	6.6E+02		1.3E+02
				5.0E+00	I	7.0E-01	P	V		5.11E+03	1.36E+09	4.17E+04	1		Cyclohexanone	108-94-1					3.9E+04		3.0E+03	2.8E+03
				5.0E-03	P	1.0E+00	X	V		2.83E+02	1.36E+09	1.46E+03	1		Cyclohexene	110-83-8					3.9E+01		1.5E+02	3.1E+01
				2.0E-01	I			V		2.93E+05	1.36E+09	7.46E+04	1		Cyclohexylamine	108-91-8					1.6E+03			1.6E+03
				2.5E-02	I						1.36E+09		1	0.1	Cyfluthrin	68359-37-5					2.0E+02	8.2E+02		1.6E+02
				5.0E-01	O						1.36E+09		1	0.1	Cyromazine	66215-27-8					3.9E+03	1.6E+04		3.2E+03
				3.0E-02	I						1.36E+09		1	0.1	Dalapon	75-99-0					2.3E+02	9.9E+02		1.9E+02
1.8E-02	C	5.1E-06	C	1.5E-01	I						1.36E+09		1	0.1	Daminozide	1596-84-5	3.9E+01	1.4E+02	7.5E+05	3.0E+01	1.2E+03	4.9E+03		9.5E+02
7.0E-04	I			7.0E-03	I						1.36E+09		1	0.1	Decabromodiphenyl ether, 2,2',3,3',4,4',5,5',6,6'- (BDE-209)	1163-19-5	9.9E+02	3.5E+03		7.8E+02	5.5E+01	2.3E+02		4.4E+01
				4.0E-05	I						1.36E+09		1	0.1	Demeton	8065-48-3					3.1E-01	1.3E+00		2.5E-01
1.2E-03	I			6.0E-01	I						1.36E+09		1	0.1	Di(2-ethylhexyl)adipate	103-23-1	5.8E+02	2.1E+03		4.5E+02	4.7E+03	2.0E+04		3.8E+03
6.1E-02	H										1.36E+09		1	0.1	Diallate	2303-16-4	1.1E+01	4.1E+01		8.9E+00				
				7.0E-04	A						1.36E+09		1	0.1	Diazinon	333-41-5					5.5E+00	2.3E+01		4.4E+00
8.0E-01	P	6.0E-03	P	2.0E-04	P	2.0E-04	I	V	M	9.79E+02	1.36E+09	3.20E+04	1		Dibromo-3-chloropropane, 1,2-	96-12-8	1.9E-01		5.4E-03	5.3E-03	1.6E+00		6.7E-01	4.7E-01
2.5E-01	C			3.0E-04	C						1.36E+09		1	0.1	Dibromoacetic acid	631-64-1	2.8E+00	9.9E+00		2.2E+00	2.3E+00	9.9E+00		1.9E+00
				4.0E-04	X			V		1.59E+02	1.36E+09	1.93E+04	1		Dibromobenzene, 1,3-	108-36-1					3.1E+00			3.1E+00
				1.0E-02	I			V			1.36E+09	2.20E+04	1		Dibromobenzene, 1,4-	106-37-6					7.8E+01			7.8E+01
8.4E-02	I			2.0E-02	I			V		8.02E+02	1.36E+09	7.95E+03	1		Dibromochloromethane	124-48-1	8.3E+00			8.3E+00	1.6E+02			1.6E+02
2.0E+00	I	6.0E-04	I	9.0E-03	I	9.0E-03	I	V		1.34E+03	1.36E+09	8.64E+03	1		Dibromoethane, 1,2-	106-93-4	3.5E-01		4.0E-02	3.6E-02	7.0E+01		8.1E+00	7.3E+00
						4.0E-03	X	V		2.82E+03	1.36E+09	5.64E+03	1		Dibromomethane (Methylene Bromide)	74-95-3							2.4E+00	2.4E+00
				3.0E-04	P						1.36E+09		1	0.1	Dibutyltin Compounds	E1790661					2.3E+00	9.9E+00		1.9E+00
				3.0E-02	I						1.36E+09		1	0.1	Dicamba	1918-00-9					2.3E+02	9.9E+02		1.9E+02
											1.36E+09		1	0.1	Dichloramine	3400-09-7								
		4.2E-03	P					V		5.54E+02	1.36E+09	3.21E+03	1		Dichloro-2-butene, 1,4-	764-41-0			2.1E-03	2.1E-03				
		4.2E-03	P					V		5.19E+02	1.36E+09	1.11E+04	1		Dichloro-2-butene, cis-1,4-	1476-11-5			7.4E-03	7.4E-03				
		4.2E-03	P					V		7.60E+02	1.36E+09	1.11E+04	1		Dichloro-2-butene, trans-1,4-	110-57-6			7.4E-03	7.4E-03				
5.0E-02	I			4.0E-03	I						1.36E+09		1	0.1	Dichloroacetic Acid	79-43-6	1.4E+01	4.9E+01		1.1E+01	3.1E+01	1.3E+02		2.5E+01
				9.0E-02	I	2.0E-01	H	V		3.76E+02	1.36E+09	1.17E+04	1		Dichlorobenzene, 1,2-	95-50-1					7.0E+02		2.4E+02	1.8E+02
5.4E-03	C	1.1E-05	C	7.0E-02	A	8.0E-01	I	V			1.36E+09	1.04E+04	1		Dichlorobenzene, 1,4-	106-46-7	1.3E+02		2.7E+00	2.6E+00	5.5E+02		8.7E+02	3.4E+02
4.5E-01	I	3.4E-04	C								1.36E+09		1	0.1	Dichlorobenzidine, 3,3'-	91-94-1	1.5E+00	5.5E+00	1.1E+04	1.2E+00				
				9.0E-03	X						1.36E+09		1	0.1	Dichlorobenzophenone, 4,4'-	90-98-2					7.0E+01	3.0E+02		5.7E+01
				2.0E-01	I	1.0E-01	X	V		8.45E+02	1.36E+09	8.41E+02	1		Dichlorodifluoromethane	75-71-8					1.6E+03		8.8E+00	8.7E+00
2.4E-01	I	6.9E-05	C	5.0E-04	A						1.36E+09		1	0.1	Dichlorodiphenyldichloroethane, p,p`- (DDD)	72-54-8	2.9E+00	1.0E+01	5.5E+04	2.3E+00	3.9E+00	1.6E+01		3.2E+00
3.4E-01	I	9.7E-05	C	5.0E-04	A			V			1.36E+09	2.10E+06	1		Dichlorodiphenyldichloroethylene, p,p`- (DDE)	72-55-9	2.0E+00		6.1E+01	2.0E+00	3.9E+00			3.9E+00
3.4E-01	I	9.7E-05	I	5.0E-04	I						1.36E+09		1	0.03	Dichlorodiphenyltrichloroethane, p,p`- (DDT)	50-29-3	2.0E+00	2.4E+01	3.9E+04	1.9E+00	3.9E+00	5.5E+01		3.7E+00
5.7E-03	C	1.6E-06	C	2.0E-01	P			V		1.69E+03	1.36E+09	2.08E+03	1		Dichloroethane, 1,1-	75-34-3	1.2E+02		3.7E+00	3.6E+00	1.6E+03			1.6E+03
9.1E-02	I	2.6E-05	I	6.0E-03	X	7.0E-03	P	V		2.98E+03	1.36E+09	4.57E+03	1		Dichloroethane, 1,2-	107-06-2	7.6E+00		4.9E-01	4.6E-01	4.7E+01		3.3E+00	3.1E+00
				5.0E-02	I	2.0E-01	I	V		1.19E+03	1.36E+09	1.16E+03	1		Dichloroethylene, 1,1-	75-35-4					3.9E+02		2.4E+01	2.3E+01
				2.0E-03	I	4.0E-02	X	V		2.37E+03	1.36E+09	2.50E+03	1		Dichloroethylene, cis-1,2-	156-59-2					1.6E+01		1.0E+01	6.3E+00
				2.0E-02	I	4.0E-02	X	V		1.85E+03	1.36E+09	1.75E+03	1		Dichloroethylene, trans-1,2-	156-60-5					1.6E+02		7.3E+00	7.0E+00
				3.0E-03	I						1.36E+09		1	0.1	Dichlorophenol, 2,4-	120-83-2					2.3E+01	9.9E+01		1.9E+01
				1.0E-02	I						1.36E+09		1	0.05	Dichlorophenoxy Acetic Acid, 2,4-	94-75-7					7.8E+01	6.6E+02		7.0E+01
3.7E-02	P	3.7E-06	P	4.0E-02	P	4.0E-03	I	V		1.36E+03	1.36E+09	3.79E+03	1		Dichloropropane, 1,2-	78-87-5	1.9E+01		2.9E+00	2.5E+00	3.1E+02		1.6E+00	1.6E+00
				2.0E-02	P			V		1.49E+03	1.36E+09	6.76E+03	1		Dichloropropane, 1,3-	142-28-9					1.6E+02			1.6E+02
				3.0E-03	I						1.36E+09		1	0.1	Dichloropropanol, 2,3-	616-23-9					2.3E+01	9.9E+01		1.9E+01
1.0E-01	I	4.0E-06	I	3.0E-02	I	2.0E-02	I	V		1.57E+03	1.36E+09	3.55E+03	1		Dichloropropene, 1,3-	542-75-6	7.0E+00		2.5E+00	1.8E+00	2.3E+02		7.4E+00	7.2E+00
2.9E-01	I	8.3E-05	C	5.0E-04	I	5.0E-04	I				1.36E+09		1	0.1	Dichlorvos	62-73-7	2.4E+00	8.5E+00	4.6E+04	1.9E+00	3.9E+00	1.6E+01	7.1E+04	3.2E+00
				3.0E-05	O						1.36E+09		1	0.1	Dicrotophos	141-66-2					2.3E-01	9.9E-01		1.9E-01
				8.0E-02	P	3.0E-04	X	V		2.56E+02	1.36E+09	4.11E+03	1		Dicyclopentadiene	77-73-6					6.3E+02		1.3E-01	1.3E-01
1.6E+01	I	4.6E-03	I	5.0E-05	I						1.36E+09		1	0.1	Dieldrin	60-57-1	4.3E-02	1.5E-01	8.3E+02	3.4E-02	3.9E-01	1.6E+00		3.2E-01
		3.0E-04	C			5.0E-03	I						1	0.1	Diesel Engine Exhaust	E17136615								
				2.0E-03	P	2.0E-04	P				1.36E+09		1	0.1	Diethanolamine	111-42-2					1.6E+01	6.6E+01	2.8E+04	1.3E+01
				3.0E-02	P	1.0E-04	P				1.36E+09		1	0.1	Diethylene Glycol Monobutyl Ether	112-34-5					2.3E+02	9.9E+02	1.4E+04	1.9E+02
				6.0E-02	P	3.0E-04	P				1.36E+09		1	0.1	Diethylene Glycol Monoethyl Ether	111-90-0					4.7E+02	2.0E+03	4.3E+04	3.8E+02
				1.0E-03	P			V		1.12E+05	1.36E+09	1.39E+05	1		Diethylformamide	617-84-5					7.8E+00			7.8E+00
3.5E+02	C	1.0E-01	C								1.36E+09		1	0.1	Diethylstilbestrol	56-53-1	2.0E-03	7.1E-03	3.8E+01	1.6E-03				
				8.3E-02	O						1.36E+09		1	0.1	Difenzoquat	43222-48-6					6.5E+02	2.7E+03		5.2E+02
				2.0E-02	I						1.36E+09		1	0.1	Diflubenzuron	35367-38-5					1.6E+02	6.6E+02		1.3E+02

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = OW; R = ORD; N = WI; W = TEF applied; E = RPF applied; G = see user's guide; c = cancer; n = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values are based on DAF=1; m = ceiling limit exceeded; s = Csat exceeded; V = volatile; M = mutagen.

Toxicity and Chemical-specific Information															Contaminant		Carcinogenic Target Risk (TR) = 1E-06				Noncancer Child Hazard Index (HI) = 0.1			
SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfD_o (mg/kg-day)	key	RfC_i (mg/m^3)	key	volatile	mutagen	C_{sat} (mg/kg)	PEF (m^3/kg)	VF (m^3/kg)	GIABS	ABS_d	Analyte	CAS No.	Ingestion SL TR=1E-06 (mg/kg)	Dermal SL TR=1E-06 (mg/kg)	Inhalation SL TR=1E-06 (mg/kg)	Carcinogenic SL TR=1E-06 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)	Noncarcinogenic SL Child THI=0.1 (mg/kg)
						4.0E+01	I	V		1.43E+03	1.36E+09	1.15E+03	1		Difluoroethane, 1,1-	75-37-6							4.8E+03	4.8E+03
						3.0E+01	X	V		6.91E+02	1.36E+09	7.58E+02	1		Difluoropropane, 2,2-	420-45-1							2.4E+03	2.4E+03
4.4E-02	C	1.3E-05	C					V			1.36E+09	1.23E+05	1		Dihydrosafrole	94-58-6	1.6E+01		2.7E+01	9.9E+00				
						7.0E-01	P	V		2.26E+03	1.36E+09	3.06E+03	1		Diisopropyl Ether	108-20-3							2.2E+02	2.2E+02
				8.0E-02	I			V		5.30E+02	1.36E+09	3.81E+04	1		Diisopropyl Methylphosphonate	1445-75-6					6.3E+02			6.3E+02
				2.2E-02	O						1.36E+09		1	0.1	Dimethipin	55290-64-7					1.7E+02	7.2E+02		1.4E+02
				2.2E-03	O						1.36E+09		1	0.1	Dimethoate	60-51-5					1.7E+01	7.3E+01		1.4E+01
1.6E+00	P	1.4E-01	C								1.36E+09		1	0.1	Dimethoxybenzidine, 3,3'-	119-90-4	4.3E-01	1.5E+00	2.7E+01	3.3E-01				
1.7E-03	P			6.0E-02	P						1.36E+09		1	0.1	Dimethyl methylphosphonate	756-79-6	4.1E+02	1.5E+03		3.2E+02	4.7E+02	2.0E+03		3.8E+02
4.6E+00	C	1.3E-03	C								1.36E+09		1	0.1	Dimethylamino azobenzene [p-]	60-11-7	1.5E-01	5.4E-01	2.9E+03	1.2E-01				
5.8E-01	H										1.36E+09		1	0.1	Dimethylaniline HCl, 2,4-	21436-96-4	1.2E+00	4.3E+00		9.4E-01				
2.0E-01	P			2.0E-03	X						1.36E+09		1	0.1	Dimethylaniline, 2,4-	95-68-1	3.5E+00	1.2E+01		2.7E+00	1.6E+01	6.6E+01		1.3E+01
2.7E-02	P			2.0E-03	I			V		8.30E+02	1.36E+09	3.13E+04	1		Dimethylaniline, N,N-	121-69-7	2.6E+01			2.6E+01	1.6E+01			1.6E+01
1.1E+01	P										1.36E+09		1	0.1	Dimethylbenzidine, 3,3'-	119-93-7	6.3E-02	2.2E-01		4.9E-02				
				1.0E-01	P	3.0E-02	I	V		1.06E+05	1.36E+09	1.28E+05	1		Dimethylformamide	68-12-2					7.8E+02		4.0E+02	2.6E+02
				1.0E-04	X	2.0E-06	X	V		1.72E+05	1.36E+09	2.77E+04	1		Dimethylhydrazine, 1,1-	57-14-7					7.8E-01		5.8E-03	5.7E-03
5.5E+02	C	1.6E-01	C					V		1.89E+05	1.36E+09	1.68E+05	1		Dimethylhydrazine, 1,2-	540-73-8	1.3E-03		2.9E-03	8.8E-04				
				2.0E-02	I						1.36E+09		1	0.1	Dimethylphenol, 2,4-	105-67-9					1.6E+02	6.6E+02		1.3E+02
				6.0E-04	I						1.36E+09		1	0.1	Dimethylphenol, 2,6-	576-26-1					4.7E+00	2.0E+01		3.8E+00
				1.0E-03	I						1.36E+09		1	0.1	Dimethylphenol, 3,4-	95-65-8					7.8E+00	3.3E+01		6.3E+00
4.5E-02	C	1.3E-05	C					V		4.73E+02	1.36E+09	5.48E+03	1		Dimethylvinylchloride	513-37-1	1.5E+01		1.2E+00	1.1E+00				
				8.0E-05	X						1.36E+09		1	0.1	Dinitro-o-cresol, 4,6-	534-52-1					6.3E-01	2.6E+00		5.1E-01
				2.0E-03	I						1.36E+09		1	0.1	Dinitro-o-cyclohexyl Phenol, 4,6-	131-89-5					1.6E+01	6.6E+01		1.3E+01
				4.0E-04	X	2.0E-03	X				1.36E+09		1	0.1	Dinitroaniline, 3,5-	618-87-1					3.1E+00	1.3E+01	2.8E+05	2.5E+00
				1.0E-04	P						1.36E+09		1	0.1	Dinitrobenzene, 1,2-	528-29-0					7.8E-01	3.3E+00		6.3E-01
				1.0E-04	I						1.36E+09		1	0.1	Dinitrobenzene, 1,3-	99-65-0					7.8E-01	3.3E+00		6.3E-01
				1.0E-04	P						1.36E+09		1	0.1	Dinitrobenzene, 1,4-	100-25-4					7.8E-01	3.3E+00		6.3E-01
				2.0E-03	I						1.36E+09		1	0.1	Dinitrophenol, 2,4-	51-28-5					1.6E+01	6.6E+01		1.3E+01
6.8E-01	I										1.36E+09		1	0.1	Dinitrotoluene Mixture, 2,4/2,6-	E1615210	1.0E+00	3.6E+00		8.0E-01				
3.1E-01	C	8.9E-05	C	2.0E-03	I						1.36E+09		1	0.102	Dinitrotoluene, 2,4-	121-14-2	2.2E+00	7.8E+00	4.3E+04	1.7E+00	1.6E+01	6.5E+01		1.3E+01
1.5E+00	P			3.0E-04	X						1.36E+09		1	0.099	Dinitrotoluene, 2,6-	606-20-2	4.6E-01	1.7E+00		3.6E-01	2.3E+00	1.0E+01		1.9E+00
				1.0E-04	X						1.36E+09		1	0.006	Dinitrotoluene, 2-Amino-4,6-	35572-78-2					7.8E-01	5.5E+01		7.7E-01
				1.0E-04	X						1.36E+09		1	0.009	Dinitrotoluene, 4-Amino-2,6-	19406-51-0					7.8E-01	3.7E+01		7.7E-01
4.5E-01	X			9.0E-04	X						1.36E+09		1	0.1	Dinitrotoluene, Technical grade	25321-14-6	1.5E+00	5.5E+00		1.2E+00	7.0E+00	3.0E+01		5.7E+00
				1.0E-03	I						1.36E+09		1	0.1	Dinoseb	88-85-7					7.8E+00	3.3E+01		6.3E+00
1.0E-01	I	5.0E-06	I	3.0E-02	I	3.0E-02	I	V		1.16E+05	1.36E+09	3.96E+04	1		Dioxane, 1,4-	123-91-1	7.0E+00		2.2E+01	5.3E+00	2.3E+02		1.2E+02	8.1E+01
															Dioxins									
6.2E+03	I	1.3E+00	I								1.36E+09		1	0.03	~Hexachlorodibenzo-p-dioxin, Mixture	34465-46-8	1.1E-04	1.3E-03	2.9E+00	1.0E-04				
1.3E+05	C	3.8E+01	C	7.0E-10	I	4.0E-08	C	V			1.36E+09	1.96E+06	1	0.03	~TCDD, 2,3,7,8-	1746-01-6	5.3E-06	6.3E-05	1.4E-04	4.8E-06	5.5E-06	7.7E-05	8.2E-03	5.1E-06
				3.0E-02	I						1.36E+09		1	0.1	Diphenamid	957-51-7					2.3E+02	9.9E+02		1.9E+02
						4.0E-04	X	V			1.36E+09	8.06E+04	1		Diphenyl Ether	101-84-8							3.4E+00	3.4E+00
				8.0E-04	X						1.36E+09		1	0.1	Diphenyl Sulfone	127-63-9					6.3E+00	2.6E+01		5.1E+00
				1.0E-01	O						1.36E+09		1	0.1	Diphenylamine	122-39-4					7.8E+02	3.3E+03		6.3E+02
8.0E-01	I	2.2E-04	I								1.36E+09		1	0.1	Diphenylhydrazine, 1,2-	122-66-7	8.7E-01	3.1E+00	1.7E+04	6.8E-01				
				2.2E-03	I						1.36E+09		1	0.1	Diquat	2764-72-9					1.7E+01	7.3E+01		1.4E+01
7.4E+00	C	2.1E-03	C								1.36E+09		1	0.1	Direct Black 38	1937-37-7	9.4E-02	3.3E-01	1.8E+03	7.3E-02				
7.4E+00	C	2.1E-03	C								1.36E+09		1	0.1	Direct Blue 6	2602-46-2	9.4E-02	3.3E-01	1.8E+03	7.3E-02				
6.7E+00	C	1.9E-03	C								1.36E+09		1	0.1	Direct Brown 95	16071-86-6	1.0E-01	3.7E-01	2.0E+03	8.1E-02				
				4.0E-05	I						1.36E+09		1	0.1	Disulfoton	298-04-4					3.1E-01	1.3E+00		2.5E-01
				1.0E-02	I			V			1.36E+09	4.54E+04	1		Dithiane, 1,4-	505-29-3					7.8E+01			7.8E+01
				2.0E-03	I						1.36E+09		1	0.1	Diuron	330-54-1					1.6E+01	6.6E+01		1.3E+01
				2.0E-02	O						1.36E+09		1	0.1	Dodine	2439-10-3					1.6E+02	6.6E+02		1.3E+02
				5.0E-02	O			V			1.36E+09	1.17E+05	1		EPTC	759-94-4					3.9E+02			3.9E+02
				6.0E-03	I			V			1.36E+09	4.10E+05	1		Endosulfan	115-29-7					4.7E+01			4.7E+01
				6.0E-03	P						1.36E+09		1	0.1	Endosulfan Sulfate	1031-07-8					4.7E+01	2.0E+02		3.8E+01
				2.0E-02	I						1.36E+09		1	0.1	Endothall	145-73-3					1.6E+02	6.6E+02		1.3E+02
				3.0E-04	I						1.36E+09		1	0.1	Endrin	72-20-8					2.3E+00	9.9E+00		1.9E+00
9.9E-03	I	1.2E-06	I	6.0E-03	P	1.0E-03	I	V		1.05E+04	1.36E+09	1.89E+04	1		Epichlorohydrin	106-89-8	7.0E+01		4.4E+01	2.7E+01	4.7E+01		2.0E+00	1.9E+00
						2.0E-02	I	V		1.53E+04	1.36E+09	7.66E+03	1		Epoxybutane, 1,2-	106-88-7							1.6E+01	1.6E+01
				4.0E-02	P						1.36E+09		1	0.1	Ethanol, 2-(2-methoxyethoxy)-	111-77-3					3.1E+02	1.3E+03		2.5E+02
				5.0E-03	I						1.36E+09		1	0.1	Ethephon	16672-87-0					3.9E+01	1.6E+02		3.2E+01
				5.0E-04	I						1.36E+09		1	0.1	Ethion	563-12-2					3.9E+00	1.6E+01		3.2E+00
				1.0E-01	P	6.0E-02	P	V		2.38E+04	1.36E+09	6.15E+04	1		Ethoxyethanol Acetate, 2-	111-15-9					7.8E+02		3.8E+02	2.6E+02
				9.0E-02	P	4.0E-02	P	V		1.06E+05	1.36E+09	9.84E+04	1		Ethoxyethanol, 2-	110-80-5					7.0E+02		4.1E+02	2.6E+02
				7.0E-01	P	7.0E-02	P	V		1.08E+04	1.36E+09	8.62E+03	1		Ethyl Acetate	141-78-6					5.5E+03		6.3E+01	6.2E+01
				5.0E-03	P	8.0E-03	P	V		2.50E+03	1.36E+09	6.34E+03	1		Ethyl Acrylate	140-88-5					3.9E+01		5.3E+00	4.7E+00
						4.0E+00	P	V		2.12E+03	1.36E+09	1.29E+03	1		Ethyl Chloride (Chloroethane)	75-00-3							5.4E+02	5.4E+02
				2.0E-01	I			V		1.01E+04	1.36E+09	3.12E+03	1		Ethyl Ether	60-29-7					1.6E+03			1.6E+03
						3.0E-01	P	V		1.10E+03	1.36E+09	5.77E+03	1		Ethyl Methacrylate	97-63-2							1.8E+02	1.8E+02
		8.0E-08	I	1.0E+00	I	4.0E+01	I	V		2.87E+03	1.36E+09	3.67E+03	1		Ethyl Tertiary Butyl Ether (ETBE)	637-92-3			1.3E+02	1.3E+02	7.8E+03		1.5E+04	5.2E+03
				1.0E-05	I						1.36E+09		1	0.1	Ethyl-p-nitrophenyl Phosphonate	2104-64-5					7.8E-02	3.3E-01		6.3E-02
1.1E-02	C	2.5E-06	C	5.0E-02	P	1.0E+00	I	V		4.80E+02	1.36E+09	5.67E+03	1		Ethylbenzene	100-41-4	6.3E+01		6.4E+00	5.8E+00	3.9E+02		5.9E+02	2.4E+02
				7.0E-02	P						1.36E+09		1	0.1	Ethylene Cyanohydrin	109-78-4					5.5E+02	2.3E+03		4.4E+02
				9.0E-02	P			V		1.89E+05	1.36E+09	1.80E+05	1		Ethylene Diamine	107-15-3					7.0E+02			7.0E+02
				8.0E-01	A	4.0E-01	C				1.36E+09		1	0.1	Ethylene Glycol	107-21-1					6.3E+03	2.6E+04	5.7E+07	5.1E+03
				1.0E-01	I	1.6E+00	I				1.36E+09		1	0.1	Ethylene Glycol Monobutyl Ether	111-76-2					7.8E+02	3.3E+03	2.3E+08	6.3E+02
3.1E-01	C	3.0E-03	I			3.0E-02	C	V	M	1.21E+05	1.36E+09	6.09E+03	1		Ethylene Oxide	75-21-8	4.9E-01		2.1E-03	2.0E-03			1.9E+01	1.9E+01
4.5E-02	C	1.3E-05	C	8.0E-05	I						1.36E+09		1	0.1	Ethylene Thiourea	96-45-7	1.5E+01	5.5E+01	2.9E+05	1.2E+01	6.3E-01	2.6E+00		5.1E-01
6.5E+01	C	1.9E-02	C					V		1.54E+05	1.36E+09	2.39E+04	1		Ethyleneimine	151-56-4	1.1E-02		3.5E-03	2.7E-03				
				3.0E+00	I						1.36E+09		1	0.1	Ethylphthalyl Ethyl Glycolate	84-72-0					2.3E+04	9.9E+04		1.9E+04
				2.5E-04	I						1.36E+09		1	0.1	Fenamiphos	22224-92-6					2.0E+00	8.2E+00		1.6E+00
				2.5E-02	I						1.36E+09		1	0.1	Fenpropathrin	39515-41-8					2.0E+02	8.2E+02		1.6E+02
				2.5E-02	I						1.36E+09		1	0.1	Fenvalerate	51630-58-1					2.0E+02	8.2E+02		1.6E+02

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = OW; R = ORD; N = WI; W = TEF applied; E = RPF applied; G = see user's guide; c = cancer; n = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values are based on DAF=1; m = ceiling limit exceeded; s = Csat exceeded; V = volatile; M = mutagen.

Toxicity and Chemical-specific Information															Contaminant		Carcinogenic Target Risk (TR) = 1E-06				Noncancer Child Hazard Index (HI) = 0.1			
SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfD_o (mg/kg-day)	key	RfC_i (mg/m^3)	key	vol	mutagen	C_{sat} (mg/kg)	PEF (m^3/kg)	VF (m^3/kg)	GIABS	ABS_d	Analyte	CAS No.	Ingestion SL TR=1E-06 (mg/kg)	Dermal SL TR=1E-06 (mg/kg)	Inhalation SL TR=1E-06 (mg/kg)	Carcinogenic SL TR=1E-06 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)	Noncarcinogenic SL Child THI=0.1 (mg/kg)
				1.3E-02	I						1.36E+09		1	0.1	Fluometuron	2164-17-2					1.0E+02	4.3E+02		8.2E+01
				4.0E-02	C	1.3E-02	C				1.36E+09		1		Fluoride	16984-48-8					3.1E+02		1.8E+06	3.1E+02
				6.0E-02	I	1.3E-02	C				1.36E+09		1		Fluorine (Soluble Fluoride)	7782-41-4					4.7E+02		1.8E+06	4.7E+02
				8.0E-02	I						1.36E+09		1	0.1	Fluridone	59756-60-4					6.3E+02	2.6E+03		5.1E+02
				4.0E-02	O						1.36E+09		1	0.1	Flurprimidol	56425-91-3					3.1E+02	1.3E+03		2.5E+02
				2.0E-03	O						1.36E+09		1	0.1	Flusilazole	85509-19-9					1.6E+01	6.6E+01		1.3E+01
				5.0E-01	O						1.36E+09		1	0.1	Flutolanil	66332-96-5					3.9E+03	1.6E+04		3.2E+03
				1.0E-02	I						1.36E+09		1	0.1	Fluvalinate	69409-94-5					7.8E+01	3.3E+02		6.3E+01
				9.0E-02	O						1.36E+09		1	0.1	Folpet	133-07-3					7.0E+02	3.0E+03		5.7E+02
				1.0E-02	O						1.36E+09		1	0.1	Fomesafen	72178-02-0					7.8E+01	3.3E+02		6.3E+01
				2.0E-03	I						1.36E+09		1	0.1	Fonofos	944-22-9					1.6E+01	6.6E+01		1.3E+01
2.1E-02	C	1.3E-05	I	2.0E-01	I	9.8E-03	A	V		4.24E+04	1.36E+09	7.77E+04	1		Formaldehyde	50-00-0	3.3E+01		1.7E+01	1.1E+01	1.6E+03		8.0E+01	7.6E+01
				9.0E-01	P	3.0E-04	X	V		1.06E+05	1.36E+09	9.30E+04	1		Formic Acid	64-18-6					7.0E+03		2.9E+00	2.9E+00
				2.5E+00	O						1.36E+09		1	0.1	Fosetyl-AL	39148-24-8					2.0E+04	8.2E+04		1.6E+04
															Furans									
				1.0E-03	X			V			1.36E+09	1.56E+05	1		~Dibenzofuran	132-64-9					7.8E+00			7.8E+00
				1.0E-03	I			V		6.22E+03	1.36E+09	2.62E+03	1		~Furan	110-00-9					7.8E+00			7.8E+00
				9.0E-01	I	2.0E+00	I	V		1.65E+05	1.36E+09	1.20E+04	1		~Tetrahydrofuran	109-99-9					7.0E+03		2.5E+03	1.8E+03
3.8E+00	H										1.36E+09		1	0.1	Furazolidone	67-45-8	1.8E-01	6.5E-01		1.4E-01				
				3.0E-03	I	5.0E-02	H	V		1.01E+04	1.36E+09	4.86E+04	1		Furfural	98-01-1					2.3E+01		2.5E+02	2.1E+01
1.5E+00	C	4.3E-04	C								1.36E+09		1	0.1	Furium	531-82-8	4.6E-01	1.6E+00	8.9E+03	3.6E-01				
3.0E-02	I	8.6E-06	C								1.36E+09		1	0.1	Furmecyclox	60568-05-0	2.3E+01	8.2E+01	4.4E+05	1.8E+01				
				6.0E-03	O						1.36E+09		1	0.1	Glufosinate, Ammonium	77182-82-2					4.7E+01	2.0E+02		3.8E+01
				1.0E-01	A	8.0E-05	C				1.36E+09		1	0.1	Glutaraldehyde	111-30-8					7.8E+02	3.3E+03	1.1E+04	6.0E+02
				4.0E-04	I	1.0E-03	X	V		1.06E+05	1.36E+09	8.43E+04	1		Glycidaldehyde	765-34-4					3.1E+00		8.8E+00	2.3E+00
				1.0E-01	I						1.36E+09		1	0.1	Glyphosate	1071-83-6					7.8E+02	3.3E+03		6.3E+02
				1.0E-02	X			V			1.36E+09	1.45E+05	1		Guanidine	113-00-8					7.8E+01			7.8E+01
				2.0E-02	P						1.36E+09		1	0.1	Guanidine Chloride	50-01-1					1.6E+02	6.6E+02		1.3E+02
				3.0E-02	X						1.36E+09		1	0.1	Guanidine Nitrate	506-93-4					2.3E+02	9.9E+02		1.9E+02
				5.0E-05	I						1.36E+09		1	0.1	Haloxyfop, Methyl	69806-40-2					3.9E-01	1.6E+00		3.2E-01
4.5E+00	I	1.3E-03	I	1.0E-04	A			V			1.36E+09	4.79E+05	1		Heptachlor	76-44-8	1.5E-01		1.0E+00	1.3E-01	7.8E-01			7.8E-01
9.1E+00	I	2.6E-03	I	1.3E-05	I			V			1.36E+09	8.43E+05	1		Heptachlor Epoxide	1024-57-3	7.6E-02		9.1E-01	7.0E-02	1.0E-01			1.0E-01
						3.0E-03	X	V		2.09E+02	1.36E+09	7.80E+03	1		Heptanal, n-	111-71-7							2.4E+00	2.4E+00
				3.0E-04	X	4.0E-01	P	V		5.79E+01	1.36E+09	8.95E+02	1		Heptane, N-	142-82-5					2.3E+00		3.7E+01	2.2E+00
				2.0E-03	I			V			1.36E+09	3.80E+05	1		Hexabromobenzene	87-82-1					1.6E+01			1.6E+01
				2.0E-04	I						1.36E+09		1	0.1	Hexabromodiphenyl ether, 2,2',4,4',5,5'- (BDE-153)	68631-49-2					1.6E+00	6.6E+00		1.3E+00
1.6E+00	I	4.6E-04	I	1.0E-05	P			V			1.36E+09	6.80E+04	1		Hexachlorobenzene	118-74-1	4.3E-01		4.1E-01	2.1E-01	7.8E-02			7.8E-02
7.8E-02	I	2.2E-05	I	1.0E-03	P			V		1.68E+01	1.36E+09	1.08E+04	1		Hexachlorobutadiene	87-68-3	8.9E+00		1.4E+00	1.2E+00	7.8E+00			7.8E+00
6.3E+00	I	1.8E-03	I								1.36E+09		1	0.1	Hexachlorocyclohexane, Alpha-	319-84-6	1.1E-01	3.9E-01	2.1E+03	8.6E-02				
1.8E+00	I	5.3E-04	I								1.36E+09		1	0.1	Hexachlorocyclohexane, Beta-	319-85-7	3.9E-01	1.4E+00	7.2E+03	3.0E-01				
1.1E+00	C	3.1E-04	C	3.0E-04	I						1.36E+09		1	0.04	Hexachlorocyclohexane, Gamma- (Lindane)	58-89-9	6.3E-01	5.6E+00	1.2E+04	5.7E-01	2.3E+00	2.5E+01		2.1E+00
1.8E+00	I	5.1E-04	I								1.36E+09		1	0.1	Hexachlorocyclohexane, Technical	608-73-1	3.9E-01	1.4E+00	7.5E+03	3.0E-01				
				6.0E-03	I	2.0E-04	I	V		1.57E+01	1.36E+09	8.51E+03	1		Hexachlorocyclopentadiene	77-47-4					4.7E+01		1.8E-01	1.8E-01
4.0E-02	I	1.1E-05	C	7.0E-04	I	3.0E-02	I	V			1.36E+09	8.01E+03	1		Hexachloroethane	67-72-1	1.7E+01		2.0E+00	1.8E+00	5.5E+00		2.5E+01	4.5E+00
				3.0E-04	I						1.36E+09		1	0.1	Hexachlorophene	70-30-4					2.3E+00	9.9E+00		1.9E+00
8.0E-02	I			4.0E-03	I						1.36E+09		1	0.015	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	8.7E+00	2.1E+02		8.3E+00	3.1E+01	8.8E+02		3.0E+01
						1.0E-05	I	V		3.39E+03	1.36E+09	3.00E+05	1		Hexamethylene Diisocyanate, 1,6-	822-06-0							3.1E-01	3.1E-01
						4.0E-04	C				1.36E+09		1	0.1	Hexamethylene diisocyanate biuret	4035-89-6							5.7E+04	5.7E+04
						4.0E-04	C				1.36E+09		1	0.1	Hexamethylene diisocyanate isocyanurate	3779-63-3							5.7E+04	5.7E+04
				4.0E-04	P						1.36E+09		1	0.1	Hexamethylphosphoramide	680-31-9					3.1E+00	1.3E+01		2.5E+00
		2.0E-07	X			6.0E-01	P	V		1.41E+02	1.36E+09	8.29E+02	1		Hexane, Commercial	E5241997			1.2E+01	1.2E+01			5.2E+01	5.2E+01
						7.0E-01	I	V		1.41E+02	1.36E+09	8.29E+02	1		Hexane, N-	110-54-3							6.1E+01	6.1E+01
				2.0E+00	P						1.36E+09		1	0.1	Hexanedioic Acid	124-04-9					1.6E+04	6.6E+04		1.3E+04
9.5E-03	P			7.0E-02	P	4.0E-04	P	V		2.74E+02	1.36E+09	3.62E+04	1		Hexanol, 1-,2-ethyl- (2-Ethyl-1-hexanol)	104-76-7	7.3E+01			7.3E+01	5.5E+02		1.5E+00	1.5E+00
				5.0E-03	I	3.0E-02	I	V		3.28E+03	1.36E+09	1.33E+04	1		Hexanone, 2-	591-78-6					3.9E+01		4.2E+01	2.0E+01
				3.3E-02	I						1.36E+09		1	0.1	Hexazinone	51235-04-2					2.6E+02	1.1E+03		2.1E+02
				2.5E-02	I						1.36E+09		1	0.1	Hexythiazox	78587-05-0					2.0E+02	8.2E+02		1.6E+02
				1.7E-02	O						1.36E+09		1	0.1	Hydramethylnon	67485-29-4					1.3E+02	5.6E+02		1.1E+02
3.0E+00	I	4.9E-03	I			3.0E-05	P	V		1.12E+05	1.36E+09	6.52E+04	1		Hydrazine	302-01-2	2.3E-01		3.7E-02	3.2E-02			2.0E-01	2.0E-01
3.0E+00	I	4.9E-03	I								1.36E+09		1		Hydrazine Sulfate	10034-93-2	2.3E-01		7.8E+02	2.3E-01				
						2.0E-02	I	V			1.36E+09		1		Hydrogen Chloride	7647-01-0							2.8E+06	2.8E+06
				4.0E-02	C	1.4E-02	C	V			1.36E+09		1		Hydrogen Fluoride	7664-39-3					3.1E+02		2.0E+06	3.1E+02
						2.0E-03	I	V			1.36E+09		1		Hydrogen Sulfide	7783-06-4							2.8E+05	2.8E+05
6.0E-02	P			4.0E-02	P						1.36E+09		1	0.1	Hydroquinone	123-31-9	1.2E+01	4.1E+01		9.0E+00	3.1E+02	1.3E+03		2.5E+02
6.1E-02	O			1.1E-01	O						1.36E+09		1	0.1	Imazalil	35554-44-0	1.1E+01	4.0E+01		8.9E+00	8.4E+02	3.6E+03		6.8E+02
				2.5E-01	I						1.36E+09		1	0.1	Imazaquin	81335-37-7					2.0E+03	8.2E+03		1.6E+03
				2.5E+00	O						1.36E+09		1	0.1	Imazethapyr	81335-77-5					2.0E+04	8.2E+04		1.6E+04
				1.0E-02	A						1.36E+09		1		Iodine	7553-56-2					7.8E+01			7.8E+01
				4.0E-02	I						1.36E+09		1	0.1	Iprodione	36734-19-7					3.1E+02	1.3E+03		2.5E+02
				7.0E-01	P						1.36E+09		1		Iron	7439-89-6					5.5E+03			5.5E+03
				3.0E-01	I	4.0E-01	X	V		1.00E+04	1.36E+09	2.81E+04	1		Isobutyl Alcohol	78-83-1					2.3E+03		1.2E+03	7.8E+02
9.5E-04	I			2.0E-01	I	2.0E+00	C				1.36E+09		1	0.1	Isophorone	78-59-1	7.3E+02	2.6E+03		5.7E+02	1.6E+03	6.6E+03	2.8E+08	1.3E+03
				1.5E-02	I			V			1.36E+09	4.20E+05	1		Isopropalin	33820-53-0					1.2E+02			1.2E+02
				2.0E+00	P	2.0E-01	P	V		1.09E+05	1.36E+09	2.77E+04	1		Isopropanol	67-63-0					1.6E+04		5.8E+02	5.6E+02
				1.0E-01	I						1.36E+09		1	0.1	Isopropyl Methyl Phosphonic Acid	1832-54-8					7.8E+02	3.3E+03		6.3E+02
				5.0E-02	I						1.36E+09		1	0.1	Isoxaben	82558-50-7					3.9E+02	1.6E+03		3.2E+02
						3.0E-01	A	V			1.36E+09		1		Jet propulsion fuel 7 (JP-7)	E1737665							4.3E+07	4.3E+07
				8.0E-03	O						1.36E+09		1	0.1	Lactofen	77501-63-4					6.3E+01	2.6E+02		5.1E+01
				2.0E-04	X						1.36E+09		1	0.1	Lactonitrile	78-97-7					1.6E+00	6.6E+00		1.3E+00
				5.0E-05	P						1.36E+09		1		Lanthanum	7439-91-0					3.9E-01			3.9E-01
				2.1E-05	P						1.36E+09		1	0.1	Lanthanum Acetate Hydrate	100587-90-4					1.6E-01	6.9E-01		1.3E-01
				1.9E-05	P						1.36E+09		1		Lanthanum Chloride Heptahydrate	10025-84-0					1.5E-01			1.5E-01
				2.8E-05	P						1.36E+09		1		Lanthanum Chloride, Anhydrous	10099-58-8					2.2E-01			2.2E-01

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = OW; R = ORD; N = WI; W = TEF applied; E = RPF applied; G = see user's guide; c = cancer; n = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values are based on DAF=1; m = ceiling limit exceeded; s = Csat exceeded; V = volatile; M = mutagen.

Toxicity and Chemical-specific Information															Contaminant		Carcinogenic Target Risk (TR) = 1E-06				Noncancer Child Hazard Index (HI) = 0.1			
SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfD_o (mg/kg-day)	key	RfC_i (mg/m^3)	key	volatile	mutagen	C_{sat} (mg/kg)	PEF (m^3/kg)	VF (m^3/kg)	GIABS	ABS_d	Analyte	CAS No.	Ingestion SL TR=1E-06 (mg/kg)	Dermal SL TR=1E-06 (mg/kg)	Inhalation SL TR=1E-06 (mg/kg)	Carcinogenic SL TR=1E-06 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)	Noncarcinogenic SL Child THI=0.1 (mg/kg)
				1.6E-05	P						1.36E+09		1		Lanthanum Nitrate Hexahydrate	10277-43-7					1.3E-01			1.3E-01
															Lead Compounds									
8.5E-03	C	1.2E-05	C								1.36E+09		1		~Lead Phosphate	7446-27-7	8.2E+01		3.2E+05	8.2E+01				
2.1E-01	C	8.0E-05	C								1.36E+09		1	0.1	~Lead acetate	301-04-2	3.3E+00	1.2E+01	4.8E+04	2.6E+00				
											1.36E+09		1		~Lead and Compounds	7439-92-1								4.0E+02
3.8E-02	C	1.1E-05	C								1.36E+09		1	0.1	~Lead subacetate	1335-32-6	1.8E+01	6.5E+01	3.5E+05	1.4E+01				
				1.0E-07	I			V		2.43E+00	1.36E+09	1.91E+03	1		~Tetraethyl Lead	78-00-2					7.8E-04			7.8E-04
				5.0E-06	P			V		3.83E+02	1.36E+09	2.55E+04	1		Lewisite	541-25-3					3.9E-02			3.9E-02
				7.7E-03	O						1.36E+09		1	0.1	Linuron	330-55-2					6.0E+01	2.5E+02		4.9E+01
				2.0E-03	P						1.36E+09		1		Lithium	7439-93-2					1.6E+01			1.6E+01
				5.0E-04	I						1.36E+09		1	0.1	MCPA	94-74-6					3.9E+00	1.6E+01		3.2E+00
				4.4E-02	O						1.36E+09		1	0.1	MCPB	94-81-5					3.4E+02	1.5E+03		2.8E+02
				1.0E-03	I						1.36E+09		1	0.1	MCPP	93-65-2					7.8E+00	3.3E+01		6.3E+00
				2.0E-02	I						1.36E+09		1	0.1	Malathion	121-75-5					1.6E+02	6.6E+02		1.3E+02
				1.0E-01	I	7.0E-04	C				1.36E+09		1	0.1	Maleic Anhydride	108-31-6					7.8E+02	3.3E+03	9.9E+04	6.3E+02
				5.0E-01	I						1.36E+09		1	0.1	Maleic Hydrazide	123-33-1					3.9E+03	1.6E+04		3.2E+03
				1.0E-04	P						1.36E+09		1	0.1	Malononitrile	109-77-3					7.8E-01	3.3E+00		6.3E-01
				3.0E-02	H						1.36E+09		1	0.1	Mancozeb	8018-01-7					2.3E+02	9.9E+02		1.9E+02
				5.0E-03	I						1.36E+09		1	0.1	Maneb	12427-38-2					3.9E+01	1.6E+02		3.2E+01
				1.4E-01	I	5.0E-05	I						1		Manganese (Diet)	7439-96-5								
				2.4E-02	G	5.0E-05	I				1.36E+09		0.04		Manganese (Non-diet)	7439-96-5					1.9E+02		7.1E+03	1.8E+02
				9.0E-05	H						1.36E+09		1	0.1	Mephosfolan	950-10-7					7.0E-01	3.0E+00		5.7E-01
				3.0E-02	I						1.36E+09		1	0.1	Mepiquat Chloride	24307-26-4					2.3E+02	9.9E+02		1.9E+02
1.1E-02	P			4.0E-03	P						1.36E+09		1	0.1	Mercaptobenzothiazole, 2-	149-30-4	6.3E+01	2.2E+02		4.9E+01	3.1E+01	1.3E+02		2.5E+01
															Mercury Compounds									
				3.0E-04	I	3.0E-04	G				1.36E+09		0.07		~Mercuric Chloride (and other Mercury salts)	7487-94-7					2.3E+00		4.3E+04	2.3E+00
						3.0E-04	I	V		3.13E+00	1.36E+09	3.47E+04	1		~Mercury (elemental)	7439-97-6							1.1E+00	1.1E+00
				1.0E-04	I						1.36E+09		1		~Methyl Mercury	22967-92-6					7.8E-01			7.8E-01
				8.0E-05	I						1.36E+09		1	0.1	~Phenylmercuric Acetate	62-38-4					6.3E-01	2.6E+00		5.1E-01
				3.0E-05	I			V			1.36E+09	1.94E+06	1		Merphos	150-50-5					2.3E-01			2.3E-01
				6.0E-02	I						1.36E+09		1	0.1	Metalaxyl	57837-19-1					4.7E+02	2.0E+03		3.8E+02
				1.0E-04	I	3.0E-02	P	V		4.58E+03	1.36E+09	6.79E+03	1		Methacrylonitrile	126-98-7					7.8E-01		2.1E+01	7.5E-01
				5.0E-05	I						1.36E+09		1	0.1	Methamidophos	10265-92-6					3.9E-01	1.6E+00		3.2E-01
				2.0E+00	I	2.0E+01	I	V		1.06E+05	1.36E+09	2.90E+04	1		Methanol	67-56-1					1.6E+04		6.1E+04	1.2E+04
				1.5E-03	O						1.36E+09		1	0.1	Methidathion	950-37-8					1.2E+01	4.9E+01		9.5E+00
				2.5E-02	I						1.36E+09		1	0.1	Methomyl	16752-77-5					2.0E+02	8.2E+02		1.6E+02
4.9E-02	C										1.36E+09		1	0.1	Methoxy-5-nitroaniline, 2-	99-59-2	1.4E+01	5.0E+01		1.1E+01				
				5.0E-03	I						1.36E+09		1	0.1	Methoxychlor	72-43-5					3.9E+01	1.6E+02		3.2E+01
				8.0E-03	P	1.0E-03	P	V		1.15E+05	1.36E+09	1.24E+05	1		Methoxyethanol Acetate, 2-	110-49-6					6.3E+01		1.3E+01	1.1E+01
				5.0E-03	P	7.0E-03	P	V		1.06E+05	1.36E+09	1.01E+05	1		Methoxyethanol, 2-	109-86-4					3.9E+01		7.4E+01	2.6E+01
				1.0E+00	X			V		2.90E+04	1.36E+09	8.12E+03	1		Methyl Acetate	79-20-9					7.8E+03			7.8E+03
						2.0E-02	P	V		6.75E+03	1.36E+09	6.97E+03	1		Methyl Acrylate	96-33-3							1.5E+01	1.5E+01
				6.0E-01	I	5.0E+00	I	V		2.84E+04	1.36E+09	1.22E+04	1		Methyl Ethyl Ketone (2-Butanone)	78-93-3					4.7E+03		6.4E+03	2.7E+03
		1.0E-03	X	1.0E-03	P	2.0E-05	X	V		1.80E+05	1.36E+09	5.04E+04	1		Methyl Hydrazine	60-34-4			1.4E-01	1.4E-01	7.8E+00		1.1E-01	1.0E-01
						3.0E+00	I	V		3.36E+03	1.36E+09	1.06E+04	1		Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1							3.3E+03	3.3E+03
						1.0E-03	C	V		1.01E+04	1.36E+09	4.42E+03	1		Methyl Isocyanate	624-83-9							4.6E-01	4.6E-01
				1.4E+00	I	7.0E-01	I	V		2.36E+03	1.36E+09	6.33E+03	1		Methyl Methacrylate	80-62-6					1.1E+04		4.6E+02	4.4E+02
				2.5E-04	I						1.36E+09		1	0.1	Methyl Parathion	298-00-0					2.0E+00	8.2E+00		1.6E+00
				6.0E-02	X						1.36E+09		1	0.1	Methyl Phosphonic Acid	993-13-5					4.7E+02	2.0E+03		3.8E+02
				6.0E-03	H	4.0E-02	H	V		3.93E+02	1.36E+09	2.43E+04	1		Methyl Styrene (Mixed Isomers)	25013-15-4					4.7E+01		1.0E+02	3.2E+01
9.9E-02	C	2.8E-05	C								1.36E+09		1	0.1	Methyl methanesulfonate	66-27-3	7.0E+00	2.5E+01	1.4E+05	5.5E+00				
1.8E-03	C	2.6E-07	C			3.0E+00	I	V		8.87E+03	1.36E+09	4.90E+03	1		Methyl tert-Butyl Ether (MTBE)	1634-04-4	3.9E+02		5.3E+01	4.7E+01			1.5E+03	1.5E+03
				3.0E-04	X						1.36E+09		1	0.1	Methyl-1,4-benzenediamine dihydrochloride, 2-	615-45-2					2.3E+00	9.9E+00		1.9E+00
						3.0E+00	X	V		2.45E+03	1.36E+09	1.72E+04	1		Methyl-2-Pentanol, 4-	108-11-2							5.4E+03	5.4E+03
9.0E-03	P			2.0E-02	X						1.36E+09		1	0.1	Methyl-5-Nitroaniline, 2-	99-55-8	7.7E+01	2.7E+02		6.0E+01	1.6E+02	6.6E+02		1.3E+02
8.3E+00	C	2.4E-03	C								1.36E+09		1	0.1	Methyl-N-nitro-N-nitrosoguanidine, N-	70-25-7	8.4E-02	3.0E-01	1.6E+03	6.5E-02				
1.3E-01	C	3.7E-05	C								1.36E+09		1	0.1	Methylaniline Hydrochloride, 2-	636-21-5	5.3E+00	1.9E+01	1.0E+05	4.2E+00				
				1.0E-02	A						1.36E+09		1	0.1	Methylarsonic acid	124-58-3					7.8E+01	3.3E+02		6.3E+01
				2.0E-04	X						1.36E+09		1	0.1	Methylbenzene,1-4-diamine monohydrochloride, 2-	74612-12-7					1.6E+00	6.6E+00		1.3E+00
1.0E-01	X			3.0E-04	X						1.36E+09		1	0.1	Methylbenzene-1,4-diamine sulfate, 2-	615-50-9	7.0E+00	2.5E+01		5.4E+00	2.3E+00	9.9E+00		1.9E+00
2.2E+01	C	6.3E-03	C						M		1.36E+09		1	0.1	Methylcholanthrene, 3-	56-49-5	7.0E-03	2.7E-02	2.2E+02	5.5E-03				
						9.5E-02	X	V		6.76E+01	1.36E+09	9.90E+02	1		Methylcyclohexane	108-87-2							9.8E+00	9.8E+00
2.0E-03	I	1.0E-08	I	6.0E-03	I	6.0E-01	I	V	M	3.32E+03	1.36E+09	2.19E+03	1		Methylene Chloride	75-09-2	7.7E+01		2.2E+02	5.7E+01	4.7E+01		1.4E+02	3.5E+01
1.0E-01	P	4.3E-04	C	2.0E-03	P				M		1.36E+09		1	0.1	Methylene-bis(2-chloroaniline), 4,4'-	101-14-4	1.5E+00	6.0E+00	3.2E+03	1.2E+00	1.6E+01	6.6E+01		1.3E+01
4.6E-02	I	1.3E-05	C								1.36E+09		1	0.1	Methylene-bis(N,N-dimethyl) Aniline, 4,4'-	101-61-1	1.5E+01	5.4E+01	2.9E+05	1.2E+01				
1.6E+00	C	4.6E-04	C			2.0E-02	C				1.36E+09		1	0.1	Methylenebisbenzenamine, 4,4'-	101-77-9	4.3E-01	1.5E+00	8.3E+03	3.4E-01			2.8E+06	2.8E+06
						6.0E-04	I				1.36E+09		1	0.1	Methylenediphenyl Diisocyanate	101-68-8							8.5E+04	8.5E+04
				7.0E-02	H			V		5.00E+02	1.36E+09	1.28E+04	1		Methylstyrene, Alpha-	98-83-9					5.5E+02			5.5E+02
				1.5E-01	I						1.36E+09		1	0.1	Metolachlor	51218-45-2					1.2E+03	4.9E+03		9.5E+02
				2.5E-02	I						1.36E+09		1	0.1	Metribuzin	21087-64-9					2.0E+02	8.2E+02		1.6E+02
				2.5E-01	I						1.36E+09		1	0.1	Metsulfuron-methyl	74223-64-6					2.0E+03	8.2E+03		1.6E+03
		4.5E-06	X	1.0E-02	X	1.0E-01	P	V		6.86E+00	1.36E+09	1.04E+03	1		Midrange Aliphatic Hydrocarbon Streams	E1790669			6.5E-01	6.5E-01	7.8E+01		1.1E+01	9.6E+00
				3.0E+00	P			V		3.42E-01	1.36E+09	1.38E+03	1		Mineral oils	8012-95-1					2.3E+04			2.3E+04
1.8E+01	C	5.1E-03	C	2.0E-04	I			V			1.36E+09	8.58E+05	1		Mirex	2385-85-5	3.9E-02		4.7E-01	3.6E-02	1.6E+00			1.6E+00
				2.0E-03	I						1.36E+09		1	0.1	Molinate	2212-67-1					1.6E+01	6.6E+01		1.3E+01
				5.0E-03	I	2.0E-03	A				1.36E+09		1		Molybdenum	7439-98-7					3.9E+01		2.8E+05	3.9E+01
				1.0E-01	I						1.36E+09		1		Monochloramine	10599-90-3					7.8E+02			7.8E+02
				2.0E-03	P						1.36E+09		1	0.1	Monomethylaniline	100-61-8					1.6E+01	6.6E+01		1.3E+01
				2.5E-02	I						1.36E+09		1	0.1	Myclobutanil	88671-89-0					2.0E+02	8.2E+02		1.6E+02
				3.0E-04	X						1.36E+09		1	0.1	N,N'-Diphenyl-1,4-benzenediamine	74-31-7					2.3E+00	9.9E+00		1.9E+00
				2.0E-03	I			V			1.36E+09	5.70E+04	1		Naled	300-76-5					1.6E+01			1.6E+01
				3.0E-02	X	1.0E-01	P	V			1.36E+09		1		Naphtha, High Flash Aromatic (HFAN)	64742-95-6					2.3E+02		1.4E+07	2.3E+02
1.8E+00	C	0.0E+00	C								1.36E+09		1	0.1	Naphthylamine, 2-	91-59-8	3.9E-01	1.4E+00		3.0E-01				

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = OW; R = ORD; N = WI; W = TEF applied; E = RPF applied; G = see user's guide; c = cancer; n = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values are based on DAF=1; m = ceiling limit exceeded; s = Csat exceeded; V = volatile; M = mutagen.

Toxicity and Chemical-specific Information															Contaminant		Carcinogenic Target Risk (TR) = 1E-06				Noncancer Child Hazard Index (HI) = 0.1			
SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfD_o (mg/kg-day)	key	RfC_i (mg/m^3)	key	volatile	mutagen	C_{sat} (mg/kg)	PEF (m^3/kg)	VF (m^3/kg)	GIABS	ABS_d	Analyte	CAS No.	Ingestion SL TR=1E-06 (mg/kg)	Dermal SL TR=1E-06 (mg/kg)	Inhalation SL TR=1E-06 (mg/kg)	Carcinogenic SL TR=1E-06 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)	Noncarcinogenic SL Child THI=0.1 (mg/kg)
				1.2E-01	O						1.36E+09		1	0.1	Napropamide	15299-99-7					9.4E+02	4.0E+03		7.6E+02
		2.6E-04	C	1.1E-02	C	1.4E-05	C				1.36E+09		1	0.1	Nickel Acetate	373-02-4			1.5E+04	1.5E+04	8.6E+01	3.6E+02	2.0E+03	6.7E+01
		2.6E-04	C	1.1E-02	C	1.4E-05	C				1.36E+09		1	0.1	Nickel Carbonate	3333-67-3			1.5E+04	1.5E+04	8.6E+01	3.6E+02	2.0E+03	6.7E+01
		2.6E-04	C	1.1E-02	C	1.4E-05	C	V			1.36E+09		1		Nickel Carbonyl	13463-39-3			1.5E+04	1.5E+04	8.6E+01		2.0E+03	8.2E+01
		2.6E-04	C	1.1E-02	C	1.4E-05	C				1.36E+09		0.04		Nickel Hydroxide	12054-48-7			1.5E+04	1.5E+04	8.6E+01		2.0E+03	8.2E+01
		2.6E-04	C	1.1E-02	C	2.0E-05	C				1.36E+09		0.04		Nickel Oxide	1313-99-1			1.5E+04	1.5E+04	8.6E+01		2.8E+03	8.4E+01
		2.4E-04	I	1.1E-02	C	1.4E-05	C				1.36E+09		0.04		Nickel Refinery Dust	E715532			1.6E+04	1.6E+04	8.6E+01		2.0E+03	8.2E+01
		2.6E-04	C	2.0E-02	I	1.4E-05	C				1.36E+09		0.04		Nickel Soluble Salts	7440-02-0			1.5E+04	1.5E+04	1.6E+02		2.0E+03	1.4E+02
1.7E+00	C	4.8E-04	I	1.1E-02	C	1.4E-05	C				1.36E+09		0.04		Nickel Subsulfide	12035-72-2	4.1E-01		8.0E+03	4.1E-01	8.6E+01		2.0E+03	8.2E+01
9.1E-01	C	2.6E-04	C	1.1E-02	C	1.4E-05	C				1.36E+09		1	0.1	Nickelocene	1271-28-9	7.6E-01	2.7E+00	1.5E+04	6.0E-01	8.6E+01	3.6E+02	2.0E+03	6.7E+01
				1.6E+00	I						1.36E+09		1		Nitrate (measured as nitrogen)	14797-55-8					1.3E+04			1.3E+04
											1.36E+09		1		Nitrate + Nitrite (measured as nitrogen)	E701177								
				1.0E-01	I						1.36E+09		1		Nitrite (measured as nitrogen)	14797-65-0					7.8E+02			7.8E+02
				1.0E-02	X	5.0E-05	X				1.36E+09		1	0.1	Nitroaniline, 2-	88-74-4					7.8E+01	3.3E+02	7.1E+03	6.3E+01
2.0E-02	P			4.0E-03	P	6.0E-03	P				1.36E+09		1	0.1	Nitroaniline, 4-	100-01-6	3.5E+01	1.2E+02		2.7E+01	3.1E+01	1.3E+02	8.5E+05	2.5E+01
		4.0E-05	I	2.0E-03	I	9.0E-03	I	V		3.05E+03	1.36E+09	7.32E+04	1		Nitrobenzene	98-95-3			5.1E+00	5.1E+00	1.6E+01		6.9E+01	1.3E+01
				3.0E+03	P						1.36E+09		1	0.1	Nitrocellulose	9004-70-0					2.3E+07	9.9E+07		1.9E+07
				7.0E-02	H						1.36E+09		1	0.1	Nitrofurantoin	67-20-9					5.5E+02	2.3E+03		4.4E+02
1.3E+00	C	3.7E-04	C								1.36E+09		1	0.1	Nitrofurazone	59-87-0	5.3E-01	1.9E+00	1.0E+04	4.2E-01				
1.7E-02	P			1.0E-04	P						1.36E+09		1	0.1	Nitroglycerin	55-63-0	4.1E+01	1.5E+02		3.2E+01	7.8E-01	3.3E+00		6.3E-01
				1.0E-01	I						1.36E+09		1	0.1	Nitroguanidine	556-88-7					7.8E+02	3.3E+03		6.3E+02
		8.8E-06	P			5.0E-03	P	V		1.80E+04	1.36E+09	1.69E+04	1		Nitromethane	75-52-5			5.4E+00	5.4E+00			8.8E+00	8.8E+00
		5.8E-04	X			2.0E-02	I	V		4.86E+03	1.36E+09	1.31E+04	1		Nitropropane, 2-	79-46-9			6.4E-02	6.4E-02			2.7E+01	2.7E+01
2.7E+01	C	7.7E-03	C						M		1.36E+09		1	0.1	Nitroso-N-ethylurea, N-	759-73-9	5.7E-03	2.2E-02	1.8E+02	4.5E-03				
1.2E+02	C	3.4E-02	C						M		1.36E+09		1	0.1	Nitroso-N-methylurea, N-	684-93-5	1.3E-03	5.0E-03	4.1E+01	1.0E-03				
5.4E+00	I	1.6E-03	I					V			1.36E+09	2.43E+05	1		Nitroso-di-N-butylamine, N-	924-16-3	1.3E-01		4.3E-01	9.9E-02				
7.0E+00	I	2.0E-03	C								1.36E+09		1	0.1	Nitroso-di-N-propylamine, N-	621-64-7	9.9E-02	3.5E-01	1.9E+03	7.8E-02				
2.8E+00	I	8.0E-04	C								1.36E+09		1	0.1	Nitrosodiethanolamine, N-	1116-54-7	2.5E-01	8.8E-01	4.8E+03	1.9E-01				
1.5E+02	I	4.3E-02	I						M		1.36E+09		1	0.1	Nitrosodiethylamine, N-	55-18-5	1.0E-03	4.0E-03	3.2E+01	8.1E-04				
5.1E+01	I	1.4E-02	I	8.0E-06	P	4.0E-05	X	V	M	2.37E+05	1.36E+09	8.23E+04	1		Nitrosodimethylamine, N-	62-75-9	3.0E-03		6.0E-03	2.0E-03	6.3E-02		3.4E-01	5.3E-02
4.9E-03	I	2.6E-06	C								1.36E+09		1	0.1	Nitrosodiphenylamine, N-	86-30-6	1.4E+02	5.0E+02	1.5E+06	1.1E+02				
2.2E+01	I	6.3E-03	C					V		1.08E+05	1.36E+09	1.21E+05	1		Nitrosomethylethylamine, N-	10595-95-6	3.2E-02		5.4E-02	2.0E-02				
6.7E+00	C	1.9E-03	C								1.36E+09		1	0.1	Nitrosomorpholine [N-]	59-89-2	1.0E-01	3.7E-01	2.0E+03	8.1E-02				
9.4E+00	C	2.7E-03	C								1.36E+09		1	0.1	Nitrosopiperidine [N-]	100-75-4	7.4E-02	2.6E-01	1.4E+03	5.8E-02				
2.1E+00	I	6.1E-04	I								1.36E+09		1	0.1	Nitrosopyrrolidine, N-	930-55-2	3.3E-01	1.2E+00	6.3E+03	2.6E-01				
				1.0E-04	X						1.36E+09		1	0.1	Nitrotoluene, m-	99-08-1					7.8E-01	3.3E+00		6.3E-01
2.2E-01	P			9.0E-04	P			V		1.51E+03	1.36E+09	1.37E+05	1		Nitrotoluene, o-	88-72-2	3.2E+00			3.2E+00	7.0E+00			7.0E+00
1.6E-02	P			4.0E-03	P						1.36E+09		1	0.1	Nitrotoluene, p-	99-99-0	4.3E+01	1.5E+02		3.4E+01	3.1E+01	1.3E+02		2.5E+01
				3.0E-04	X	2.0E-02	P	V		6.86E+00	1.36E+09	1.04E+03	1		Nonane, n-	111-84-2					2.3E+00		2.2E+00	1.1E+00
				1.5E-03	O						1.36E+09		1	0.1	Norflurazon	27314-13-2					1.2E+01	4.9E+01		9.5E+00
				3.0E-03	I						1.36E+09		1	0.1	Octabromodiphenyl Ether	32536-52-0					2.3E+01	9.9E+01		1.9E+01
				5.0E-02	I						1.36E+09		1	0.006	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	2691-41-0					3.9E+02	2.7E+04		3.9E+02
				2.0E-03	H						1.36E+09		1	0.1	Octamethylpyrophosphoramide	152-16-9					1.6E+01	6.6E+01		1.3E+01
7.8E-03	O			1.9E-01	O						1.36E+09		1	0.1	Oryzalin	19044-88-3	8.9E+01	3.2E+02		7.0E+01	1.5E+03	6.3E+03		1.2E+03
				5.0E-03	I						1.36E+09		1	0.1	Oxadiazon	19666-30-9					3.9E+01	1.6E+02		3.2E+01
				2.5E-02	I						1.36E+09		1	0.1	Oxamyl	23135-22-0					2.0E+02	8.2E+02		1.6E+02
7.3E-02	O			4.0E-02	O						1.36E+09		1	0.1	Oxyfluorfen	42874-03-3	9.5E+00	3.4E+01		7.4E+00	3.1E+02	1.3E+03		2.5E+02
				1.3E-02	I						1.36E+09		1	0.1	Paclobutrazol	76738-62-0					1.0E+02	4.3E+02		8.2E+01
				4.5E-03	I						1.36E+09		1	0.1	Paraquat Dichloride	1910-42-5					3.5E+01	1.5E+02		2.8E+01
				6.0E-03	H						1.36E+09		1	0.1	Parathion	56-38-2					4.7E+01	2.0E+02		3.8E+01
				5.0E-02	H			V			1.36E+09	4.49E+04	1		Pebulate	1114-71-2					3.9E+02			3.9E+02
				3.0E-01	O						1.36E+09		1	0.1	Pendimethalin	40487-42-1					2.3E+03	9.9E+03		1.9E+03
				2.0E-03	I			V		3.12E-01	1.36E+09	5.13E+05	1		Pentabromodiphenyl Ether	32534-81-9					1.6E+01			1.6E+01
				1.0E-04	I						1.36E+09		1	0.1	Pentabromodiphenyl ether, 2,2',4,4',5- (BDE-99)	60348-60-9					7.8E-01	3.3E+00		6.3E-01
				8.0E-04	I			V			1.36E+09	8.12E+04	1		Pentachlorobenzene	608-93-5					6.3E+00			6.3E+00
9.0E-02	P							V		4.57E+02	1.36E+09	9.65E+03	1		Pentachloroethane	76-01-7	7.7E+00			7.7E+00				
2.6E-01	H			3.0E-03	I			V			1.36E+09	4.32E+05	1		Pentachloronitrobenzene	82-68-8	2.7E+00			2.7E+00	2.3E+01			2.3E+01
4.0E-01	I	5.1E-06	C	5.0E-03	I						1.36E+09		1	0.25	Pentachlorophenol	87-86-5	1.7E+00	2.5E+00	7.5E+05	1.0E+00	3.9E+01	6.6E+01		2.5E+01
4.3E-03	X			9.0E-03	P						1.36E+09		1	0.1	Pentaerythritol tetranitrate (PETN)	78-11-5	1.6E+02	5.7E+02		1.3E+02	7.0E+01	3.0E+02		5.7E+01
				1.0E-04	X						1.36E+09		1	0.1	Pentamethylphosphoramide (PMPA)	10159-46-3					7.8E-01	3.3E+00		6.3E-01
						1.0E+00	P	V		3.88E+02	1.36E+09	7.79E+02	1		Pentane, n-	109-66-0							8.1E+01	8.1E+01
															Per- and Polyfluoroalkyl Substances (PFAS)									
				3.0E-06	D						1.36E+09		1	0.1	~Ammonium perfluoro-2-methyl-3-oxahexanoate	62037-80-3					2.3E-02	9.9E-02		1.9E-02
				1.0E-03	I			V		2.68E+02	1.36E+09	5.98E+04	1		~Ammonium perfluorobutanoate	10495-86-0					7.8E+00			7.8E+00
				5.0E-04	I						1.36E+09		1	0.1	~Ammonium perfluorohexanoate	21615-47-4					3.9E+00	1.6E+01		3.2E+00
				3.0E-04	R			V			1.36E+09	5.53E+04	1		~Bis(trifluoromethylsulfonyl)amine (TFSI)	82113-65-3					2.3E+00			2.3E+00
				3.0E-06	D			V		1.92E+06	1.36E+09	4.97E+04	1		~Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6					2.3E-02			2.3E-02
				3.0E-04	R			V			1.36E+09	5.41E+04	1		~Lithium bis[(trifluoromethyl)sulfonyl]azanide	90076-65-6					2.3E+00			2.3E+00
				3.0E-04	P						1.36E+09		1	0.1	~Perfluorobutanesulfonate	45187-15-3					2.3E+00	9.9E+00		1.9E+00
				3.0E-04	P						1.36E+09		1	0.1	~Perfluorobutanesulfonic acid (PFBS)	375-73-5					2.3E+00	9.9E+00		1.9E+00
				1.0E-03	I			V		2.56E+03	1.36E+09	5.85E+04	1		~Perfluorobutanoate	45048-62-2					7.8E+00			7.8E+00
				1.0E-03	I			V		2.57E+03	1.36E+09	3.82E+04	1		~Perfluorobutanoic acid (PFBA)	375-22-4					7.8E+00			7.8E+00
				5.0E-05	N						1.36E+09		1	0.1	~Perfluorododecanoic acid (PFDoDA)	307-55-1					3.9E-01	1.6E+00		3.2E-01
				2.0E-05	A						1.36E+09		1	0.1	~Perfluorohexanesulfonate	108427-53-8					1.6E-01	6.6E-01		1.3E-01
				2.0E-05	A						1.36E+09		1	0.1	~Perfluorohexanesulfonic acid (PFHxS)	355-46-4					1.6E-01	6.6E-01		1.3E-01
				5.0E-04	I						1.36E+09		1	0.1	~Perfluorohexanoate	92612-52-7					3.9E+00	1.6E+01		3.2E+00
				5.0E-04	I						1.36E+09		1	0.1	~Perfluorohexanoic acid (PFHxA)	307-24-4					3.9E+00	1.6E+01		3.2E+00
				3.0E-06	A						1.36E+09		1	0.1	~Perfluorononanoate	72007-68-2					2.3E-02	9.9E-02		1.9E-02
				3.0E-06	A						1.36E+09		1	0.1	~Perfluorononanoic acid (PFNA)	375-95-1					2.3E-02	9.9E-02		1.9E-02
				4.0E-02	N						1.36E+09		1	0.1	~Perfluorooctadecanoic acid (PFODA)	16517-11-6					3.1E+02	1.3E+03		2.5E+02
				2.0E-06	A						1.36E+09		1	0.1	~Perfluorooctanesulfonate	45298-90-6					1.6E-02	6.6E-02		1.3E-02
				2.0E-06	A						1.36E+09		1	0.1	~Perfluorooctanesulfonic acid (PFOS)	1763-23-1					1.6E-02	6.6E-02		1.3E-02
7.0E-02	D			3.0E-06	A						1.36E+09		1	0.1	~Perfluorooctanoate	45285-51-6	9.9E+00	3.5E+01		7.8E+00	2.3E-02	9.9E-02		1.9E-02

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = OW; R = ORD; N = WI; W = TEF applied; E = RPF applied; G = see user's guide; c = cancer; n = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values are based on DAF=1; m = ceiling limit exceeded; s = Csat exceeded; V = volatile; M = mutagen.

Toxicity and Chemical-specific Information															Contaminant		Carcinogenic Target Risk (TR) = 1E-06				Noncancer Child Hazard Index (HI) = 0.1			
SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfD_o (mg/kg-day)	key	RfC_i (mg/m^3)	key	volatile	mutagen	C_{sat} (mg/kg)	PEF (m^3/kg)	VF (m^3/kg)	GIABS	ABS_d	Analyte	CAS No.	Ingestion SL TR=1E-06 (mg/kg)	Dermal SL TR=1E-06 (mg/kg)	Inhalation SL TR=1E-06 (mg/kg)	Carcinogenic SL TR=1E-06 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)	Noncarcinogenic SL Child THI=0.1 (mg/kg)
7.0E-02	D			3.0E-06	A						1.36E+09		1	0.1	~Perfluorooctanoic acid (PFOA)	335-67-1	9.9E+00	3.5E+01		7.8E+00	2.3E-02	9.9E-02		1.9E-02
				5.0E-04	R			V		1.36E+04	1.36E+09	2.65E+04	1		~Perfluoropropanoic acid (PFPrA)	422-64-0					3.9E+00			3.9E+00
				1.0E-03	N						1.36E+09		1	0.1	~Perfluorotetradecanoic acid (PFTetA)	376-06-7					7.8E+00	3.3E+01		6.3E+00
				3.0E-04	N						1.36E+09		1	0.1	~Perfluoroundecanoic acid (PFUDA)	2058-94-8					2.3E+00	9.9E+00		1.9E+00
				2.0E-03	I			V		9.61E+04	1.36E+09	6.13E+04	1		~Potassium heptafluorobutanoate	2966-54-3					1.6E+01			1.6E+01
				3.0E-04	P						1.36E+09		1	0.1	~Potassium perfluorobutanesulfonate	29420-49-3					2.3E+00	9.9E+00		1.9E+00
				2.0E-06	A						1.36E+09		1	0.1	~Potassium perfluorooctanesulfonate	2795-39-3					1.6E-02	6.6E-02		1.3E-02
				1.0E-03	I			V		8.99E+04	1.36E+09	6.02E+04	1		~Sodium perfluorobutanoate	2218-54-4					7.8E+00			7.8E+00
				5.0E-04	I						1.36E+09		1	0.1	~Sodium perfluorohexanoate	2923-26-4					3.9E+00	1.6E+01		3.2E+00
															Perchlorates									
				7.0E-04	I						1.36E+09		1		~Ammonium Perchlorate	7790-98-9					5.5E+00			5.5E+00
				7.0E-04	I						1.36E+09		1		~Lithium Perchlorate	7791-03-9					5.5E+00			5.5E+00
				7.0E-04	I						1.36E+09		1		~Perchlorate and Perchlorate Salts	14797-73-0					5.5E+00			5.5E+00
				7.0E-04	I						1.36E+09		1		~Potassium Perchlorate	7778-74-7					5.5E+00			5.5E+00
				7.0E-04	I						1.36E+09		1		~Sodium Perchlorate	7601-89-0					5.5E+00			5.5E+00
				5.0E-02	I						1.36E+09		1	0.1	Permethrin	52645-53-1					3.9E+02	1.6E+03		3.2E+02
2.2E-03	C	6.3E-07	C								1.36E+09		1	0.1	Phenacetin	62-44-2	3.2E+02	1.1E+03	6.1E+06	2.5E+02				
				2.4E-01	O						1.36E+09		1	0.1	Phenmedipham	13684-63-4					1.9E+03	7.9E+03		1.5E+03
				3.0E-01	I	2.0E-01	C				1.36E+09		1	0.1	Phenol	108-95-2					2.3E+03	9.9E+03	2.8E+07	1.9E+03
				4.0E-03	I						1.36E+09		1	0.1	Phenol, 2-(1-methylethoxy)-, methylcarbamate	114-26-1					3.1E+01	1.3E+02		2.5E+01
				5.0E-04	X						1.36E+09		1	0.1	Phenothiazine	92-84-2					3.9E+00	1.6E+01		3.2E+00
				2.0E-04	X			V		1.29E+02	1.36E+09	7.06E+03	1		Phenyl Isothiocyanate	103-72-0					1.6E+00			1.6E+00
				6.0E-03	I						1.36E+09		1	0.1	Phenylenediamine, m-	108-45-2					4.7E+01	2.0E+02		3.8E+01
1.2E-01	P			4.0E-03	P						1.36E+09		1	0.1	Phenylenediamine, o-	95-54-5	5.8E+00	2.1E+01		4.5E+00	3.1E+01	1.3E+02		2.5E+01
				1.0E-03	X						1.36E+09		1	0.1	Phenylenediamine, p-	106-50-3					7.8E+00	3.3E+01		6.3E+00
1.9E-03	H										1.36E+09		1	0.1	Phenylphenol, 2-	90-43-7	3.6E+02	1.3E+03		2.8E+02				
				2.0E-04	H						1.36E+09		1	0.1	Phorate	298-02-2					1.6E+00	6.6E+00		1.3E+00
						3.0E-04	I	V		1.61E+03	1.36E+09	9.81E+02	1		Phosgene	75-44-5							3.1E-02	3.1E-02
				2.0E-02	I						1.36E+09		1	0.1	Phosmet	732-11-6					1.6E+02	6.6E+02		1.3E+02
															Phosphates, Inorganic									
				2.9E+00	X						1.36E+09		1		~Aluminum metaphosphate	13776-88-0					2.3E+04			2.3E+04
				3.0E-01	X						1.36E+09		1		~Aluminum salts of inorganic phosphates	E524680405					2.3E+03			2.3E+03
				1.0E+00	P						1.36E+09		1		~Dipotassium phosphate	7758-11-4					7.8E+03			7.8E+03
				1.0E+00	P						1.36E+09		1		~Disodium phosphate	7558-79-4					7.8E+03			7.8E+03
				3.5E+00	X						1.36E+09		1		~Monoaluminum phosphate	13530-50-2					2.8E+04			2.8E+04
				1.0E+00	P						1.36E+09		1		~Monopotassium phosphate	7778-77-0					7.8E+03			7.8E+03
				1.0E+00	P						1.36E+09		1		~Monosodium phosphate	7558-80-7					7.8E+03			7.8E+03
				1.4E+00	X						1.36E+09		1	0.1	~Phosphoric acid, aluminum salt (1:1) [aluminum phosphate]	7784-30-7					1.1E+04	4.5E+04		8.6E+03
				4.3E+00	X						1.36E+09		1		~Phosphoric acid, aluminum sodium salt (1:X:X) [sodium aluminum phosphate acidic (acidic SALP)]	7785-88-8					3.3E+04			3.3E+04
				1.0E+00	P						1.36E+09		1		~Polyphosphoric acid	8017-16-1					7.8E+03			7.8E+03
				1.0E+00	P						1.36E+09		1		~Potassium salts of inorganic phosphates	E524680403					7.8E+03			7.8E+03
				1.0E+00	P						1.36E+09		1		~Potassium tripolyphosphate	13845-36-8					7.8E+03			7.8E+03
				5.0E+00	X						1.36E+09		1		~Sodium aluminum phosphate (anhydrous)	10279-59-1					3.9E+04			3.9E+04
				3.5E+00	X						1.36E+09		1		~Sodium aluminum phosphate (tetrahydrate)	10305-76-7					2.8E+04			2.8E+04
				1.0E+00	P						1.36E+09		1		~Sodium hexametaphosphate	10124-56-8					7.8E+03			7.8E+03
				1.0E+00	P						1.36E+09		1		~Sodium polyphosphate	68915-31-1					7.8E+03			7.8E+03
				1.0E+00	P						1.36E+09		1		~Sodium pyrophosphate	7758-16-9					7.8E+03			7.8E+03
				1.0E+00	P						1.36E+09		1		~Sodium salts of inorganic phosphates	E524680404					7.8E+03			7.8E+03
				1.0E+00	P						1.36E+09		1		~Sodium trimetaphosphate	7785-84-4					7.8E+03			7.8E+03
				1.0E+00	P						1.36E+09		1		~Sodium tripolyphosphate	7758-29-4					7.8E+03			7.8E+03
				1.0E+00	P						1.36E+09		1		~Tetrapotassium phosphate	7320-34-5					7.8E+03			7.8E+03
				1.0E+00	P						1.36E+09		1		~Tetrasodium pyrophosphate	7722-88-5					7.8E+03			7.8E+03
				3.3E+00	X						1.36E+09		1		~Trialuminum sodium tetra decahydroqenoctaorthophosphate (dihydrate)	15136-87-5					2.5E+04			2.5E+04
				3.1E+00	X						1.36E+09		1	0.1	~Triphosphoric acid, aluminum salt (1:1) [aluminum triphosphate]	13939-25-8					2.4E+04	1.0E+05		2.0E+04
				1.0E+00	P						1.36E+09		1		~Tripotassium phosphate	7778-53-2					7.8E+03			7.8E+03
				1.0E+00	P						1.36E+09		1		~Trisodium phosphate	7601-54-9					7.8E+03			7.8E+03
				3.0E-04	I	3.0E-04	I	V			1.36E+09		1		Phosphine	7803-51-2					2.3E+00		4.3E+04	2.3E+00
				1.0E+00	P	1.0E-02	I				1.36E+09		1		Phosphoric Acid	7664-38-2					7.8E+03		1.4E+06	7.8E+03
				2.0E-05	I			V			1.36E+09	6.92E+03	1		Phosphorus, White	7723-14-0					1.6E-01			1.6E-01
															Phthalates									
1.4E-02	I	2.4E-06	C	2.0E-02	I						1.36E+09		1	0.1	~Bis(2-ethylhexyl)phthalate	117-81-7	5.0E+01	1.8E+02	1.6E+06	3.9E+01	1.6E+02	6.6E+02		1.3E+02
1.9E-03	P			2.0E-01	I						1.36E+09		1	0.1	~Butyl Benzyl Phthalate	85-68-7	3.7E+02	1.3E+03		2.9E+02	1.6E+03	6.6E+03		1.3E+03
				1.0E+00	I						1.36E+09		1	0.1	~Butylphthalyl Butylglycolate	85-70-1					7.8E+03	3.3E+04		6.3E+03
				1.0E-01	I						1.36E+09		1	0.1	~Dibutyl Phthalate	84-74-2					7.8E+02	3.3E+03		6.3E+02
				8.0E-01	I						1.36E+09		1	0.1	~Diethyl Phthalate	84-66-2					6.3E+03	2.6E+04		5.1E+03
				1.0E-01	I			V			1.36E+09	2.13E+04	1		~Dimethylterephthalate	120-61-6					7.8E+02			7.8E+02
				1.0E-02	P						1.36E+09		1	0.1	~Octyl Phthalate, di-N-	117-84-0					7.8E+01	3.3E+02		6.3E+01
				5.0E-01	X						1.36E+09		1	0.1	~Phthalic Acid, p-	100-21-0					3.9E+03	1.6E+04		3.2E+03
				2.0E+00	I	2.0E-02	C				1.36E+09		1	0.1	~Phthalic Anhydride	85-44-9					1.6E+04	6.6E+04	2.8E+06	1.3E+04
				7.0E-02	I						1.36E+09		1	0.1	Picloram	1918-02-1					5.5E+02	2.3E+03		4.4E+02
				1.0E-04	X						1.36E+09		1	0.1	Picramic Acid (2-Amino-4,6-dinitrophenol)	96-91-3					7.8E-01	3.3E+00		6.3E-01
				2.0E-03	X						1.36E+09		1	0.1	Picric Acid (2,4,6-Trinitrophenol)	88-89-1					1.6E+01	6.6E+01		1.3E+01
				7.3E-04	O						1.36E+09		1	0.1	Pirimiphos, Methyl	29232-93-7					5.7E+00	2.4E+01		4.6E+00
3.0E+01	C	8.6E-03	C	7.0E-06	H						1.36E+09		1	0.1	Polybrominated Biphenyls	36355-01-8	2.3E-02	8.2E-02	4.4E+02	1.8E-02	5.5E-02	2.3E-01		4.4E-02
															Polychlorinated Biphenyls (PCBs)									
7.0E-02	G	2.0E-05	G	7.0E-05	I			V			1.36E+09	5.86E+05	1	0.14	~Aroclor 1016	12674-11-2	9.9E+00	2.5E+01	8.2E+01	6.6E+00	5.5E-01	1.6E+00		4.1E-01
2.0E+00	G	5.7E-04	G					V			1.36E+09	2.04E+05	1	0.14	~Aroclor 1221	11104-28-2	3.5E-01	8.8E-01	1.0E+00	2.0E-01				
2.0E+00	G	5.7E-04	G					V			1.36E+09	1.12E+05	1	0.14	~Aroclor 1232	11141-16-5	3.5E-01	8.8E-01	5.5E-01	1.7E-01				
2.0E+00	G	5.7E-04	G					V			1.36E+09	5.91E+05	1	0.14	~Aroclor 1242	53469-21-9	3.5E-01	8.8E-01	2.9E+00	2.3E-01				
2.0E+00	G	5.7E-04	G					V			1.36E+09	5.14E+05	1	0.14	~Aroclor 1248	12672-29-6	3.5E-01	8.8E-01	2.5E+00	2.3E-01				
2.0E+00	G	5.7E-04	G	2.0E-05	I			V			1.36E+09	8.43E+05	1	0.14	~Aroclor 1254	11097-69-1	3.5E-01	8.8E-01	4.1E+00	2.4E-01	1.6E-01	4.7E-01		1.2E-01
2.0E+00	G	5.7E-04	G					V			1.36E+09	1.31E+06	1	0.14	~Aroclor 1260	11096-82-5	3.5E-01	8.8E-01	6.5E+00	2.4E-01				
				6.0E-04	X			V			1.36E+09	1.15E+06	1	0.14	~Aroclor 5460	11126-42-4					4.7E+00	1.4E+01		3.5E+00

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = OW; R = ORD; N = WI; W = TEF applied; E = RPF applied; G = see user's guide; c = cancer; n = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values are based on DAF=1; m = ceiling limit exceeded; s = Csat exceeded; V = volatile; M = mutagen.

Toxicity and Chemical-specific Information																Contaminant		Carcinogenic Target Risk (TR) = 1E-06				Noncancer Child Hazard Index (HI) = 0.1			
SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfD_o (mg/kg-day)	key	RfC_i (mg/m^3)	key	vol	mutagen	C_{sat} (mg/kg)	PEF (m^3/kg)	VF (m^3/kg)	GIABS	ABS_d	Analyte	CAS No.	Ingestion SL TR=1E-06 (mg/kg)	Dermal SL TR=1E-06 (mg/kg)	Inhalation SL TR=1E-06 (mg/kg)	Carcinogenic SL TR=1E-06 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)	Noncarcinogenic SL Child THI=0.1 (mg/kg)
3.9E+00	W	1.1E-03	W	2.3E-05	W	1.3E-03	W	V			1.36E+09	2.43E+06	1	0.14	~Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	39635-31-9	1.8E-01	4.5E-01	6.0E+00	1.3E-01	1.8E-01	5.5E-01	3.4E+02	1.4E-01
3.9E+00	W	1.1E-03	W	2.3E-05	W	1.3E-03	W	V			1.36E+09	1.58E+06	1	0.14	~Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	52663-72-6	1.8E-01	4.5E-01	3.9E+00	1.2E-01	1.8E-01	5.5E-01	2.2E+02	1.4E-01
3.9E+00	W	1.1E-03	W	2.3E-05	W	1.3E-03	W	V			1.36E+09	1.04E+06	1	0.14	~Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	69782-90-7	1.8E-01	4.5E-01	2.6E+00	1.2E-01	1.8E-01	5.5E-01	1.4E+02	1.4E-01
3.9E+00	W	1.1E-03	W	2.3E-05	W	1.3E-03	W	V			1.36E+09	1.11E+06	1	0.14	~Hexachlorobiphenyl, 2,3,3',4,4',5- (PCB 156)	38380-08-4	1.8E-01	4.5E-01	2.7E+00	1.2E-01	1.8E-01	5.5E-01	1.5E+02	1.4E-01
3.9E+03	W	1.1E+00	W	2.3E-08	W	1.3E-06	W	V			1.36E+09	1.58E+06	1	0.14	~Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	32774-16-6	1.8E-04	4.5E-04	3.9E-03	1.2E-04	1.8E-04	5.5E-04	2.2E-01	1.4E-04
3.9E+00	W	1.1E-03	W	2.3E-05	W	1.3E-03	W	V			1.36E+09	7.33E+05	1	0.14	~Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	65510-44-3	1.8E-01	4.5E-01	1.8E+00	1.2E-01	1.8E-01	5.5E-01	1.0E+02	1.4E-01
3.9E+00	W	1.1E-03	W	2.3E-05	W	1.3E-03	W	V			1.36E+09	5.90E+05	1	0.14	~Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	31508-00-6	1.8E-01	4.5E-01	1.5E+00	1.2E-01	1.8E-01	5.5E-01	8.2E+01	1.4E-01
3.9E+00	W	1.1E-03	W	2.3E-05	W	1.3E-03	W	V			1.36E+09	6.01E+05	1	0.14	~Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	32598-14-4	1.8E-01	4.5E-01	1.5E+00	1.2E-01	1.8E-01	5.5E-01	8.4E+01	1.4E-01
3.9E+00	W	1.1E-03	W	2.3E-05	W	1.3E-03	W	V			1.36E+09	1.05E+06	1	0.14	~Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	74472-37-0	1.8E-01	4.5E-01	2.6E+00	1.2E-01	1.8E-01	5.5E-01	1.5E+02	1.4E-01
1.3E+04	W	3.8E+00	W	7.0E-09	W	4.0E-07	W	V			1.36E+09	7.26E+05	1	0.14	~Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	57465-28-8	5.3E-05	1.4E-04	5.4E-04	3.6E-05	5.5E-05	1.6E-04	3.0E-02	4.1E-05
2.0E+00	I	5.7E-04	I					V			1.36E+09	5.32E+05	1	0.14	~Polychlorinated Biphenyls (high risk)	1336-36-3	3.5E-01	8.8E-01	2.6E+00	2.3E-01				
4.0E-01	I	1.0E-04	I					V					1	0.14	~Polychlorinated Biphenyls (low risk)	1336-36-3								
7.0E-02	I	2.0E-05	I					V					1	0.14	~Polychlorinated Biphenyls (lowest risk)	1336-36-3								
1.3E+01	W	3.8E-03	W	7.0E-06	W	4.0E-04	W				1.36E+09		1	0.14	~Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	32598-13-3	5.3E-02	1.4E-01	1.0E+03	3.8E-02	5.5E-02	1.6E-01	5.7E+04	4.1E-02
3.9E+01	W	1.1E-02	W	2.3E-06	W	1.3E-04	W	V			1.36E+09	5.09E+05	1	0.14	~Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	70362-50-4	1.8E-02	4.5E-02	1.3E-01	1.2E-02	1.8E-02	5.5E-02	7.1E+00	1.4E-02
						6.0E-04	I				1.36E+09		1	0.1	Polymeric Methylene Diphenyl Diisocyanate (PMDI)	9016-87-9							8.5E+04	8.5E+04
															Polynuclear Aromatic Hydrocarbons (PAHs)									
				6.0E-02	I			V			1.36E+09	1.41E+05	1	0.13	~Acenaphthene	83-32-9					4.7E+02	1.5E+03		3.6E+02
				3.0E-01	I			V			1.36E+09	5.23E+05	1	0.13	~Anthracene	120-12-7					2.3E+03	7.6E+03		1.8E+03
1.0E-01	E	6.0E-05	E					V	M		1.36E+09	4.41E+06	1	0.13	~Benz[a]anthracene	56-55-3	1.5E+00	4.6E+00	7.4E+01	1.1E+00				
				9.0E-05	X	2.0E-06	X				1.36E+09		1	0.1	~Benzo(e)pyrene	192-97-2					7.0E-01	3.0E+00	2.8E+02	5.7E-01
1.2E+00	C	1.1E-04	C								1.36E+09		1	0.13	~Benzo(j)fluoranthene	205-82-3	5.8E-01	1.6E+00	3.5E+04	4.2E-01				
1.0E+00	I	6.0E-04	I	3.0E-04	I	2.0E-06	I		M		1.36E+09		1	0.13	~Benzo[a]pyrene	50-32-8	1.5E-01	4.6E-01	2.3E+03	1.1E-01	2.3E+00	7.6E+00	2.8E+02	1.8E+00
1.0E-01	E	6.0E-05	E						M		1.36E+09		1	0.13	~Benzo[b]fluoranthene	205-99-2	1.5E+00	4.6E+00	2.3E+04	1.1E+00				
1.0E-02	E	6.0E-06	E						M		1.36E+09		1	0.13	~Benzo[k]fluoranthene	207-08-9	1.5E+01	4.6E+01	2.3E+05	1.1E+01				
				8.0E-02	I			V			1.36E+09	7.99E+04	1	0.13	~Chloronaphthalene, Beta-	91-58-7					6.3E+02	2.0E+03		4.8E+02
1.0E-03	E	6.0E-07	E						M		1.36E+09		1	0.13	~Chrysene	218-01-9	1.5E+02	4.6E+02	2.3E+06	1.1E+02				
1.0E+00	E	6.0E-04	E						M		1.36E+09		1	0.13	~Dibenz[a,h]anthracene	53-70-3	1.5E-01	4.6E-01	2.3E+03	1.1E-01				
1.2E+01	C	1.1E-03	C								1.36E+09		1	0.13	~Dibenzo(a,e)pyrene	192-65-4	5.8E-02	1.6E-01	3.5E+03	4.2E-02				
2.5E+02	C	7.1E-02	C						M		1.36E+09		1	0.13	~Dimethylbenz(a)anthracene, 7,12-	57-97-6	6.1E-04	1.8E-03	1.9E+01	4.6E-04				
				4.0E-02	I						1.36E+09		1	0.13	~Fluoranthene	206-44-0					3.1E+02	1.0E+03		2.4E+02
				4.0E-02	I			V			1.36E+09	2.81E+05	1	0.13	~Fluorene	86-73-7					3.1E+02	1.0E+03		2.4E+02
1.0E-01	E	6.0E-05	E						M		1.36E+09		1	0.13	~Indeno[1,2,3-cd]pyrene	193-39-5	1.5E+00	4.6E+00	2.3E+04	1.1E+00				
2.9E-02	P			7.0E-02	A			V		3.94E+02	1.36E+09	5.86E+04	1	0.13	~Methylnaphthalene, 1-	90-12-0	2.4E+01	6.6E+01		1.8E+01	5.5E+02	1.8E+03		4.2E+02
				4.0E-03	I			V			1.36E+09	5.80E+04	1	0.13	~Methylnaphthalene, 2-	91-57-6					3.1E+01	1.0E+02		2.4E+01
1.2E-01	C	3.4E-05	C	2.0E-02	I	3.0E-03	I	V			1.36E+09	4.63E+04	1	0.13	~Naphthalene	91-20-3	5.8E+00	1.6E+01	3.8E+00	2.0E+00	1.6E+02	5.1E+02	1.4E+01	1.3E+01
1.2E+00	C	1.1E-04	C								1.36E+09		1	0.13	~Nitropyrene, 4-	57835-92-4	5.8E-01	1.6E+00	3.5E+04	4.2E-01				
				9.0E-05	X	2.0E-06	X				1.36E+09		1	0.13	~Perylene	198-55-0					7.0E-01	2.3E+00	2.8E+02	5.4E-01
				3.0E-02	I			V			1.36E+09	2.38E+06	1	0.13	~Pyrene	129-00-0					2.3E+02	7.6E+02		1.8E+02
1.5E-01	I			9.0E-03	I						1.36E+09		1	0.1	Prochloraz	67747-09-5	4.6E+00	1.6E+01		3.6E+00	7.0E+01	3.0E+02		5.7E+01
				6.0E-03	H			V			1.36E+09	4.20E+05	1		Profluralin	26399-36-0					4.7E+01			4.7E+01
				1.5E-02	I						1.36E+09		1	0.1	Prometon	1610-18-0					1.2E+02	4.9E+02		9.5E+01
				4.0E-02	O						1.36E+09		1	0.1	Prometryn	7287-19-6					3.1E+02	1.3E+03		2.5E+02
				7.5E-02	I						1.36E+09		1	0.1	Pronamide	23950-58-5					5.9E+02	2.5E+03		4.7E+02
				1.3E-02	I						1.36E+09		1	0.1	Propachlor	1918-16-7					1.0E+02	4.3E+02		8.2E+01
				5.0E-03	I						1.36E+09		1	0.1	Propanil	709-98-8					3.9E+01	1.6E+02		3.2E+01
1.9E-01	O			4.0E-02	O						1.36E+09		1	0.1	Propargite	2312-35-8	3.6E+00	1.3E+01		2.8E+00	3.1E+02	1.3E+03		2.5E+02
				2.0E-03	I			V		1.11E+05	1.36E+09	6.27E+04	1		Propargyl Alcohol	107-19-7					1.6E+01			1.6E+01
				2.0E-02	I						1.36E+09		1	0.1	Propazine	139-40-2					1.6E+02	6.6E+02		1.3E+02
				2.0E-02	I						1.36E+09		1	0.1	Propham	122-42-9					1.6E+02	6.6E+02		1.3E+02
				1.0E-01	O						1.36E+09		1	0.1	Propiconazole	60207-90-1					7.8E+02	3.3E+03		6.3E+02
						8.0E-03	I	V		3.26E+04	1.36E+09	8.94E+03	1		Propionaldehyde	123-38-6							7.5E+00	7.5E+00
				1.0E-01	X	1.0E+00	X	V		2.64E+02	1.36E+09	6.99E+03	1		Propyl benzene	103-65-1					7.8E+02		7.3E+02	3.8E+02
						3.0E+00	C	V		3.49E+02	1.36E+09	7.04E+02	1		Propylene	115-07-1							2.2E+02	2.2E+02
				2.0E+01	P						1.36E+09		1	0.1	Propylene Glycol	57-55-6					1.6E+05	6.6E+05		1.3E+05
						2.7E-04	A				1.36E+09		1	0.1	Propylene Glycol Dinitrate	6423-43-4							3.9E+04	3.9E+04
				7.0E-01	H	2.0E+00	I	V		1.06E+05	1.36E+09	7.83E+04	1		Propylene Glycol Monomethyl Ether	107-98-2					5.5E+03		1.6E+04	4.1E+03
2.4E-01	I	3.7E-06	I			3.0E-02	I	V		7.77E+04	1.36E+09	1.03E+04	1		Propylene Oxide	75-56-9	2.9E+00		7.8E+00	2.1E+00			3.2E+01	3.2E+01
				1.0E-03	I			V		5.30E+05	1.36E+09	5.54E+04	1		Pyridine	110-86-1					7.8E+00			7.8E+00
				5.0E-04	I						1.36E+09		1	0.1	Quinalphos	13593-03-8					3.9E+00	1.6E+01		3.2E+00
3.0E+00	I										1.36E+09		1	0.1	Quinoline	91-22-5	2.3E-01	8.2E-01		1.8E-01				
				9.0E-03	I						1.36E+09		1	0.1	Quizalofop-ethyl	76578-14-8					7.0E+01	3.0E+02		5.7E+01
						3.0E+04	A						1		Refractory Ceramic Fibers (units in fibers)	E715557								
				3.0E-02	I						1.36E+09		1	0.1	Resmethrin	10453-86-8					2.3E+02	9.9E+02		1.9E+02
				5.0E-02	H			V			1.36E+09	4.65E+05	1		Ronnel	299-84-3					3.9E+02			3.9E+02
				4.0E-03	I						1.36E+09		1	0.1	Rotenone	83-79-4					3.1E+01	1.3E+02		2.5E+01
2.2E-01	C	6.3E-05	C						M		1.36E+09		1	0.1	Safrole	94-59-7	7.0E-01	2.7E+00	2.2E+04	5.5E-01				
				5.0E-03	I						1.36E+09		1		Selenious Acid	7783-00-8					3.9E+01			3.9E+01
				5.0E-03	I	2.0E-02	C				1.36E+09		1		Selenium	7782-49-2					3.9E+01		2.8E+06	3.9E+01
				5.0E-03	C	2.0E-02	C				1.36E+09		1		Selenium Sulfide	7446-34-6					3.9E+01		2.8E+06	3.9E+01
				1.4E-01	O						1.36E+09		1	0.1	Sethoxydim	74051-80-2					1.1E+03	4.6E+03		8.8E+02
						3.0E-03	C				1.36E+09		1		Silica (crystalline, respirable)	7631-86-9							4.3E+05	4.3E+05
				5.0E-03	I						1.36E+09		0.04		Silver	7440-22-4					3.9E+01			3.9E+01
1.2E-01	H			5.0E-03	I						1.36E+09		1	0.1	Simazine	122-34-9	5.8E+00	2.1E+01		4.5E+00	3.9E+01	1.6E+02		3.2E+01
				1.3E-02	I						1.36E+09		1	0.1	Sodium Acifluorfen	62476-59-9					1.0E+02	4.3E+02		8.2E+01
				4.0E-03	I						1.36E+09		1		Sodium Azide	26628-22-8					3.1E+01			3.1E+01
2.7E-01	H			3.0E-02	I						1.36E+09		1	0.1	Sodium Diethyldithiocarbamate	148-18-5	2.6E+00	9.2E+00		2.0E+00	2.3E+02	9.9E+02		1.9E+02
				5.0E-02	A	1.4E-02	C				1.36E+09		1		Sodium Fluoride	7681-49-4					3.9E+02		2.0E+06	3.9E+02
				2.0E-05	I						1.36E+09		1	0.1	Sodium Fluoroacetate	62-74-8					1.6E-01	6.6E-01		1.3E-01
				1.0E-03	H						1.36E+09		1		Sodium Metavanadate	13718-26-8					7.8E+00			7.8E+00
				8.0E-04	P						1.36E+09		1		Sodium Tungstate	13472-45-2					6.3E+00			6.3E+00
				8.0E-04	P						1.36E+09		1		Sodium Tungstate Dihydrate	10213-10-2					6.3E+00			6.3E+00
2.4E-02	H			3.0E-02	I						1.36E+09		1	0.1	Stirofos (Tetrachlorovinphos)	961-11-5	2.9E+01	1.0E+02		2.3E+01	2.3E+02	9.9E+02		1.9E+02

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = OW; R = ORD; N = WI; W = TEF applied; E = RPF applied; G = see user's guide; c = cancer; n = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values are based on DAF=1; m = ceiling limit exceeded; s = Csat exceeded; V = volatile; M = mutagen.

Toxicity and Chemical-specific Information																Contaminant		Carcinogenic Target Risk (TR) = 1E-06				Noncancer Child Hazard Index (HI) = 0.1			
SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfD_o (mg/kg-day)	key	RfC_i (mg/m^3)	key	volatile	mutagen	C_{sat} (mg/kg)	PEF (m^3/kg)	VF (m^3/kg)	GIABS	ABS_d	Analyte	CAS No.	Ingestion SL TR=1E-06 (mg/kg)	Dermal SL TR=1E-06 (mg/kg)	Inhalation SL TR=1E-06 (mg/kg)	Carcinogenic SL TR=1E-06 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)	Noncarcinogenic SL Child THI=0.1 (mg/kg)
				6.0E-01	I						1.36E+09		1		Strontium, Stable	7440-24-6					4.7E+03			4.7E+03
				3.0E-04	I						1.36E+09		1	0.1	Strychnine	57-24-9					2.3E+00	9.9E+00		1.9E+00
				2.0E-01	I	1.0E+00	I	V		8.67E+02	1.36E+09	9.35E+03	1		Styrene	100-42-5					1.6E+03		9.7E+02	6.0E+02
				3.0E-03	P						1.36E+09		1	0.1	Styrene-Acrylonitrile (SAN) Trimer (THNA isomer)	57964-39-3					2.3E+01	9.9E+01		1.9E+01
				3.0E-03	P						1.36E+09		1	0.1	Styrene-Acrylonitrile (SAN) Trimer (THNP isomer)	57964-40-6					2.3E+01	9.9E+01		1.9E+01
				1.0E-03	P	2.0E-03	X				1.36E+09		1	0.1	Sulfolane	126-33-0					7.8E+00	3.3E+01	2.8E+05	6.3E+00
				8.0E-04	P						1.36E+09		1	0.1	Sulfonylbis(4-chlorobenzene), 1,1'-	80-07-9					6.3E+00	2.6E+01		5.1E+00
						1.0E-03	C	V			1.36E+09		1		Sulfur Trioxide	7446-11-9							1.4E+05	1.4E+05
						1.0E-03	C				1.36E+09		1		Sulfuric Acid	7664-93-9							1.4E+05	1.4E+05
2.5E-02	I	7.1E-06	I	5.0E-02	H						1.36E+09		1	0.1	Sulfurous acid, 2-chloroethyl 2-[4-(1,1-dimethylethyl)phenoxy]-1-methylethyl ester	140-57-8	2.8E+01	9.9E+01	5.4E+05	2.2E+01	3.9E+02	1.6E+03		3.2E+02
				7.0E-02	I						1.36E+09		1	0.1	Tebuthiuron	34014-18-1					5.5E+02	2.3E+03		4.4E+02
				2.0E-02	H						1.36E+09		1	0.1	Temephos	3383-96-8					1.6E+02	6.6E+02		1.3E+02
				1.3E-02	I						1.36E+09		1	0.1	Terbacil	5902-51-2					1.0E+02	4.3E+02		8.2E+01
				2.5E-05	H			V		3.09E+01	1.36E+09	2.64E+05	1		Terbufos	13071-79-9					2.0E-01			2.0E-01
				1.0E-03	I						1.36E+09		1	0.1	Terbutryn	886-50-0					7.8E+00	3.3E+01		6.3E+00
5.0E-03	C	1.3E-06	C					V			1.36E+09	3.99E+03	1		Tert-Butyl Acetate	540-88-5	1.4E+02		8.6E+00	8.1E+00				
				1.0E-04	I						1.36E+09		1	0.1	Tetrabromodiphenyl ether, 2,2',4,4'- (BDE-47)	5436-43-1					7.8E-01	3.3E+00		6.3E-01
				3.0E-05	P			V			1.36E+09	5.07E+04	1		Tetrachlorobenzene, 1,2,4,5-	95-94-3					2.3E-01			2.3E-01
2.6E-02	I	7.4E-06	I	3.0E-02	I			V		6.80E+02	1.36E+09	5.68E+03	1		Tetrachloroethane, 1,1,1,2-	630-20-6	2.7E+01		2.2E+00	2.0E+00	2.3E+02			2.3E+02
2.0E-01	I	5.8E-05	C	2.0E-02	I			V		1.90E+03	1.36E+09	1.51E+04	1		Tetrachloroethane, 1,1,2,2-	79-34-5	3.5E+00		7.3E-01	6.0E-01	1.6E+02			1.6E+02
2.1E-03	I	2.6E-07	I	6.0E-03	I	4.0E-02	I	V		1.66E+02	1.36E+09	2.35E+03	1		Tetrachloroethylene	127-18-4	3.3E+02		2.5E+01	2.4E+01	4.7E+01		9.8E+00	8.1E+00
				3.0E-02	I						1.36E+09		1	0.1	Tetrachlorophenol, 2,3,4,6-	58-90-2					2.3E+02	9.9E+02		1.9E+02
1.6E+01	X			6.0E-05	X			V			1.36E+09	1.05E+05	1		Tetrachlorotoluene, p- alpha, alpha, alpha-	5216-25-1	4.3E-02			4.3E-02	4.7E-01			4.7E-01
				5.0E-04	I						1.36E+09		1	0.1	Tetraethyl Dithiopyrophosphate	3689-24-5					3.9E+00	1.6E+01		3.2E+00
						8.0E+01	I	V		2.05E+03	1.36E+09	1.22E+03	1		Tetrafluoroethane, 1,1,1,2-	811-97-2							1.0E+04	1.0E+04
				1.0E-04	X						1.36E+09		1	0.1	Tetramethylphosphoramide, -N,N,N',N'' (TMPA)	16853-36-4					7.8E-01	3.3E+00		6.3E-01
				2.0E-03	P						1.36E+09		1	0.00065	Tetryl (Trinitrophenylmethylnitramine)	479-45-8					1.6E+01	1.0E+04		1.6E+01
				2.0E-05	G						1.36E+09		1		Thallic Oxide	1314-32-5					1.6E-01			1.6E-01
				1.0E-05	X						1.36E+09		1		Thallium (I) Nitrate	10102-45-1					7.8E-02			7.8E-02
				1.0E-05	X						1.36E+09		1		Thallium (Soluble Salts)	7440-28-0					7.8E-02			7.8E-02
				1.0E-05	X			V			1.36E+09	1.40E+05	1		Thallium Acetate	563-68-8					7.8E-02			7.8E-02
				2.0E-05	X						1.36E+09		1	0.1	Thallium Carbonate	6533-73-9					1.6E-01	6.6E-01		1.3E-01
				1.0E-05	X						1.36E+09		1		Thallium Chloride	7791-12-0					7.8E-02			7.8E-02
				1.0E-05	G						1.36E+09		1		Thallium Selenite	12039-52-0					7.8E-02			7.8E-02
				2.0E-05	X						1.36E+09		1		Thallium Sulfate	7446-18-6					1.6E-01			1.6E-01
				4.3E-02	O						1.36E+09		1	0.1	Thifensulfuron-methyl	79277-27-3					3.4E+02	1.4E+03		2.7E+02
				1.0E-02	I						1.36E+09		1	0.1	Thiobencarb	28249-77-6					7.8E+01	3.3E+02		6.3E+01
				3.0E-02	H						1.36E+09		1	0.1	Thiocyanic acid, (2-benzothiazolylthio)methyl ester (TCMTB)	21564-17-0					2.3E+02	9.9E+02		1.9E+02
				7.0E-02	X						1.36E+09		1	0.0075	Thiodiglycol	111-48-8					5.5E+02	3.1E+04		5.4E+02
				3.0E-04	H						1.36E+09		1	0.1	Thiofanox	39196-18-4					2.3E+00	9.9E+00		1.9E+00
1.2E-02	O			1.6E-01	O						1.36E+09		1	0.1	Thiophanate, Methyl	23564-05-8	6.0E+01	2.1E+02		4.7E+01	1.3E+03	5.3E+03		1.0E+03
				1.5E-02	O						1.36E+09		1	0.1	Thiram	137-26-8					1.2E+02	4.9E+02		9.5E+01
				6.0E-01	H						1.36E+09		1		Tin	7440-31-5					4.7E+03			4.7E+03
						1.0E-04	A	V			1.36E+09		1		Titanium Tetrachloride	7550-45-0							1.4E+04	1.4E+04
				8.0E-02	I	5.0E+00	I	V		8.18E+02	1.36E+09	4.29E+03	1		Toluene	108-88-3					6.3E+02		2.2E+03	4.9E+02
3.9E-02	C	1.1E-05	C			8.0E-06	C	V			1.36E+09	7.62E+05	1		Toluene-2,4-diisocyanate	584-84-9	1.8E+01		1.9E+02	1.6E+01			6.4E-01	6.4E-01
3.9E-02	C	1.1E-05	C			8.0E-06	C	V		1.71E+03	1.36E+09	6.32E+05	1		Toluene-2,6-diisocyanate	91-08-7	1.8E+01		1.6E+02	1.6E+01			5.3E-01	5.3E-01
				1.0E-04	X						1.36E+09		1	0.1	Toluenediamine, 2,3-	2687-25-4					7.8E-01	3.3E+00		6.3E-01
1.8E-01	X			2.0E-04	X						1.36E+09		1	0.1	Toluenediamine, 2,5-	95-70-5	3.9E+00	1.4E+01		3.0E+00	1.6E+00	6.6E+00		1.3E+00
				1.0E-04	X						1.36E+09		1	0.1	Toluenediamine, 3,4-	496-72-0					7.8E-01	3.3E+00		6.3E-01
				5.0E-03	P						1.36E+09		1	0.1	Toluic Acid, p-	99-94-5					3.9E+01	1.6E+02		3.2E+01
1.6E-02	P	5.1E-05	C								1.36E+09		1	0.1	Toluidine, o- (Methylaniline, 2-)	95-53-4	4.3E+01	1.5E+02	7.5E+04	3.4E+01				
3.0E-02	P			4.0E-03	X						1.36E+09		1	0.1	Toluidine, p-	106-49-0	2.3E+01	8.2E+01		1.8E+01	3.1E+01	1.3E+02		2.5E+01
				3.0E+00	P			V		3.42E-01	1.36E+09	1.38E+03	1		Total Petroleum Hydrocarbons (Aliphatic High)	E1790670					2.3E+04			2.3E+04
				5.0E-03	P	4.0E-01	P	V		1.12E+02	1.36E+09	1.65E+03	1		Total Petroleum Hydrocarbons (Aliphatic Low)	E1790666					3.9E+01		6.9E+01	2.5E+01
				1.0E-02	X	1.0E-01	P	V		6.86E+00	1.36E+09	1.04E+03	1		Total Petroleum Hydrocarbons (Aliphatic Medium)	E1790668					7.8E+01		1.1E+01	9.6E+00
				3.0E-04	P	2.0E-06	P		M		1.36E+09		1	0.13	Total Petroleum Hydrocarbons (Aromatic High)	E1790676					2.3E+00	7.6E+00	2.8E+02	1.8E+00
				1.0E-02	P	6.0E-02	P	V		2.31E+02	1.36E+09	7.75E+03	1		Total Petroleum Hydrocarbons (Aromatic Medium)	E1790674					7.8E+01		4.8E+01	3.0E+01
1.1E+00	I	3.2E-04	I	9.0E-05	P						1.36E+09		1	0.1	Toxaphene	8001-35-2	6.3E-01	2.2E+00	1.2E+04	4.9E-01	7.0E-01	3.0E+00		5.7E-01
				3.0E-05	X						1.36E+09		1	0.1	Toxaphene, Weathered	E1841606					2.3E-01	9.9E-01		1.9E-01
				7.5E-03	I						1.36E+09		1	0.1	Tralomethrin	66841-25-6					5.9E+01	2.5E+02		4.7E+01
				3.0E-04	A			V			1.36E+09	3.36E+03	1		Tri-n-butyltin	688-73-3					2.3E+00			2.3E+00
				8.0E+01	X						1.36E+09		1	0.1	Triacetin	102-76-1					6.3E+05	2.6E+06		5.1E+05
				3.4E-02	O						1.36E+09		1	0.1	Triadimefon	43121-43-3					2.7E+02	1.1E+03		2.1E+02
7.2E-02	O			2.5E-02	O			V			1.36E+09	3.62E+05	1		Triallate	2303-17-5	9.7E+00			9.7E+00	2.0E+02			2.0E+02
				1.0E-02	I						1.36E+09		1	0.1	Triasulfuron	82097-50-5					7.8E+01	3.3E+02		6.3E+01
				8.0E-03	I						1.36E+09		1	0.1	Tribenuron-methyl	101200-48-0					6.3E+01	2.6E+02		5.1E+01
				5.0E-03	I			V			1.36E+09	4.83E+04	1		Tribromobenzene, 1,2,4-	615-54-3					3.9E+01			3.9E+01
				9.0E-03	X						1.36E+09		1	0.1	Tribromophenol, 2,4,6-	118-79-6					7.0E+01	3.0E+02		5.7E+01
				2.0E-04	O						1.36E+09		1	0.1	Tribufos	78-48-8					1.6E+00	6.6E+00		1.3E+00
9.0E-03	P			1.0E-02	P						1.36E+09		1	0.1	Tributyl Phosphate	126-73-8	7.7E+01	2.7E+02		6.0E+01	7.8E+01	3.3E+02		6.3E+01
				3.0E-04	P						1.36E+09		1	0.1	Tributyltin Compounds	E1790679					2.3E+00	9.9E+00		1.9E+00
				3.0E-04	I						1.36E+09		1	0.1	Tributyltin Oxide	56-35-9					2.3E+00	9.9E+00		1.9E+00
											1.36E+09		1	0.1	Trichloramine	10025-85-1								
				3.0E+01	I	5.0E+00	P	V		9.10E+02	1.36E+09	1.29E+03	1		Trichloro-1,2,2-trifluoroethane, 1,1,2-	76-13-1					2.3E+05		6.7E+02	6.7E+02
7.0E-02	I			2.0E-02	I						1.36E+09		1	0.1	Trichloroacetic Acid	76-03-9	9.9E+00	3.5E+01		7.8E+00	1.6E+02	6.6E+02		1.3E+02
2.9E-02	H										1.36E+09		1	0.1	Trichloroaniline HCl, 2,4,6-	33663-50-2	2.4E+01	8.5E+01		1.9E+01				
7.0E-03	X			3.0E-05	X						1.36E+09		1	0.1	Trichloroaniline, 2,4,6-	634-93-5	9.9E+01	3.5E+02		7.8E+01	2.3E-01	9.9E-01		1.9E-01
				8.0E-04	X			V			1.36E+09	3.22E+04	1		Trichlorobenzene, 1,2,3-	87-61-6					6.3E+00			6.3E+00
2.9E-02	P			1.0E-02	I	2.0E-03	P	V		4.04E+02	1.36E+09	2.99E+04	1		Trichlorobenzene, 1,2,4-	120-82-1	2.4E+01			2.4E+01	7.8E+01		6.2E+00	5.8E+00
				2.0E+00	I	5.0E+00	I	V		6.40E+02	1.36E+09	1.65E+03	1		Trichloroethane, 1,1,1-	71-55-6					1.6E+04		8.6E+02	8.1E+02
5.7E-02	I	1.6E-05	I	4.0E-03	I	2.0E-04	X	V		2.16E+03	1.36E+09	7.22E+03	1		Trichloroethane, 1,1,2-	79-00-5	1.2E+01		1.3E+00	1.1E+00	3.1E+01		1.5E-01	1.5E-01
4.6E-02	I	4.1E-06	I	5.0E-04	I	2.0E-03	I	V	M	6.92E+02	1.36E+09	2.21E+03	1		Trichloroethylene	79-01-6	8.8E+00		1.1E+00	9.4E-01	3.9E+00		4.6E-01	4.1E-01

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = OW; R = ORD; N = WI; W = TEF applied; E = RPF applied; G = see user's guide; c = cancer; n = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values are based on DAF=1; m = ceiling limit exceeded; s = Csat exceeded; V = volatile; M = mutagen.

Toxicity and Chemical-specific Information															Contaminant		Carcinogenic Target Risk (TR) = 1E-06				Noncancer Child Hazard Index (HI) = 0.1			
SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfD_o (mg/kg-day)	key	RfC_i (mg/m^3)	key	vol	mutagen	C_{sat} (mg/kg)	PEF (m^3/kg)	VF (m^3/kg)	GIABS	ABS_d	Analyte	CAS No.	Ingestion SL TR=1E-06 (mg/kg)	Dermal SL TR=1E-06 (mg/kg)	Inhalation SL TR=1E-06 (mg/kg)	Carcinogenic SL TR=1E-06 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)	Noncarcinogenic SL Child THI=0.1 (mg/kg)
				3.0E-01	I			V		1.23E+03	1.36E+09	1.04E+03	1		Trichlorofluoromethane	75-69-4					2.3E+03			2.3E+03
				1.0E-01	I						1.36E+09		1	0.1	Trichlorophenol, 2,4,5-	95-95-4					7.8E+02	3.3E+03		6.3E+02
1.1E-02	I	3.1E-06	I	1.0E-03	P						1.36E+09		1	0.1	Trichlorophenol, 2,4,6-	88-06-2	6.3E+01	2.2E+02	1.2E+06	4.9E+01	7.8E+00	3.3E+01		6.3E+00
				1.0E-02	I						1.36E+09		1	0.1	Trichlorophenoxyacetic Acid, 2,4,5-	93-76-5					7.8E+01	3.3E+02		6.3E+01
				8.0E-03	I						1.36E+09		1	0.1	Trichlorophenoxypropionic acid, -2,4,5	93-72-1					6.3E+01	2.6E+02		5.1E+01
				5.0E-03	I			V		1.28E+03	1.36E+09	1.50E+04	1		Trichloropropane, 1,1,2-	598-77-6					3.9E+01			3.9E+01
3.0E+01	I			4.0E-03	I	3.0E-04	I	V	M	1.40E+03	1.36E+09	1.57E+04	1		Trichloropropane, 1,2,3-	96-18-4	5.1E-03			5.1E-03	3.1E+01		4.9E-01	4.8E-01
				3.0E-03	X	3.0E-04	P	V		3.11E+02	1.36E+09	2.34E+03	1		Trichloropropene, 1,2,3-	96-19-5					2.3E+01		7.3E-02	7.3E-02
				2.0E-02	A						1.36E+09		1	0.1	Tricresyl Phosphate (TCP)	1330-78-5					1.6E+02	6.6E+02		1.3E+02
				3.0E-03	I						1.36E+09		1	0.1	Tridiphane	58138-08-2					2.3E+01	9.9E+01		1.9E+01
						7.0E-03	I	V		2.79E+04	1.36E+09	1.58E+04	1		Triethylamine	121-44-8							1.2E+01	1.2E+01
				2.0E+00	P						1.36E+09		1	0.1	Triethylene Glycol	112-27-6					1.6E+04	6.6E+04		1.3E+04
						2.0E+01	P	V		4.81E+03	1.36E+09	7.12E+02	1		Trifluoroethane, 1,1,1-	420-46-2							1.5E+03	1.5E+03
7.7E-03	I			7.5E-03	I			V			1.36E+09	5.13E+05	1		Trifluralin	1582-09-8	9.0E+01			9.0E+01	5.9E+01			5.9E+01
2.0E-02	P			1.0E-02	P						1.36E+09		1	0.1	Trimethyl Phosphate	512-56-1	3.5E+01	1.2E+02		2.7E+01	7.8E+01	3.3E+02		6.3E+01
				1.0E-02	I	6.0E-02	I	V		2.93E+02	1.36E+09	9.44E+03	1		Trimethylbenzene, 1,2,3-	526-73-8					7.8E+01		5.9E+01	3.4E+01
				1.0E-02	I	6.0E-02	I	V		2.19E+02	1.36E+09	7.91E+03	1		Trimethylbenzene, 1,2,4-	95-63-6					7.8E+01		5.0E+01	3.0E+01
				1.0E-02	I	6.0E-02	I	V		1.82E+02	1.36E+09	6.61E+03	1		Trimethylbenzene, 1,3,5-	108-67-8					7.8E+01		4.1E+01	2.7E+01
				1.0E-02	X			V		2.96E+01	1.36E+09	1.00E+03	1		Trimethylpentene, 2,4,4-	25167-70-8					7.8E+01			7.8E+01
				3.0E-02	I						1.36E+09		1	0.019	Trinitrobenzene, 1,3,5-	99-35-4					2.3E+02	5.2E+03		2.2E+02
				5.0E-04	I						1.36E+09		1	0.032	Trinitrotoluene, 2,4,6-	118-96-7	2.3E+01	2.6E+02		2.1E+01	3.9E+00	5.2E+01		3.6E+00
3.0E-02	I			2.0E-02	P						1.36E+09		1	0.1	Triphenylphosphine Oxide	791-28-6					1.6E+02	6.6E+02		1.3E+02
				2.0E-02	A						1.36E+09		1	0.1	Tris(1,3-Dichloro-2-propyl) Phosphate	13674-87-8					1.6E+02	6.6E+02		1.3E+02
				1.0E-02	X						1.36E+09		1	0.1	Tris(1-chloro-2-propyl)phosphate	13674-84-5					7.8E+01	3.3E+02		6.3E+01
2.3E+00	C	6.6E-04	C					V		4.67E+02	1.36E+09	9.03E+05	1		Tris(2,3-dibromopropyl)phosphate	126-72-7	3.0E-01		3.8E+00	2.8E-01				
2.0E-02	P			7.0E-03	P						1.36E+09		1	0.1	Tris(2-chloroethyl)phosphate	115-96-8	3.5E+01	1.2E+02		2.7E+01	5.5E+01	2.3E+02		4.4E+01
3.2E-03	P			1.0E-01	P						1.36E+09		1	0.1	Tris(2-ethylhexyl)phosphate	78-42-2	2.2E+02	7.7E+02		1.7E+02	7.8E+02	3.3E+03		6.3E+02
				8.0E-04	P						1.36E+09		1		Tungsten	7440-33-7					6.3E+00			6.3E+00
				2.0E-04	A	4.0E-05	A				1.36E+09		1		Uranium	7440-61-1					1.6E+00		5.7E+03	1.6E+00
1.0E+00	C	2.9E-04	C						M		1.36E+09		1	0.1	Urethane	51-79-6	1.5E-01	6.0E-01	4.8E+03	1.2E-01				
		8.3E-03	P	9.0E-03	I	7.0E-06	P				1.36E+09		0.026		Vanadium Pentoxide	1314-62-1			4.6E+02	4.6E+02	7.0E+01		9.9E+02	6.6E+01
				5.0E-03	G	1.0E-04	A				1.36E+09		0.026		Vanadium and Compounds	7440-62-2					3.9E+01		1.4E+04	3.9E+01
				1.0E-03	I			V			1.36E+09	1.23E+05	1		Vernolate	1929-77-7					7.8E+00			7.8E+00
				1.2E-03	O						1.36E+09		1	0.1	Vinclozolin	50471-44-8					9.4E+00	4.0E+01		7.6E+00
				1.0E+00	H	2.0E-01	I	V		2.75E+03	1.36E+09	4.40E+03	1		Vinyl Acetate	108-05-4					7.8E+03		9.2E+01	9.1E+01
		1.5E-05	P			3.0E-03	I	V		2.47E+03	1.36E+09	1.37E+03	1		Vinyl Bromide	593-60-2			2.6E-01	2.6E-01			4.3E-01	4.3E-01
7.2E-01	I	4.4E-06	I	3.0E-03	I	1.0E-01	I	V	M	3.92E+03	1.36E+09	9.56E+02	1		Vinyl Chloride	75-01-4	9.4E-02		1.6E-01	5.9E-02	2.3E+01		1.0E+01	7.0E+00
				3.0E-04	I						1.36E+09		1	0.1	Warfarin	81-81-2					2.3E+00	9.9E+00		1.9E+00
				2.0E-01	G	1.0E-01	G	V		3.88E+02	1.36E+09	5.47E+03	1		Xylene, m-	108-38-3					1.6E+03		5.7E+01	5.5E+01
				2.0E-01	G	1.0E-01	G	V		4.34E+02	1.36E+09	6.45E+03	1		Xylene, o-	95-47-6					1.6E+03		6.7E+01	6.4E+01
				2.0E-01	G	1.0E-01	G	V		3.90E+02	1.36E+09	5.58E+03	1		Xylene, p-	106-42-3					1.6E+03		5.8E+01	5.6E+01
				2.0E-01	I	1.0E-01	I	V		2.60E+02	1.36E+09	5.74E+03	1		Xylenes	1330-20-7					1.6E+03		6.0E+01	5.8E+01
				3.0E-04	I						1.36E+09		1		Zinc Phosphide	1314-84-7					2.3E+00			2.3E+00
				3.0E-01	I						1.36E+09		1		Zinc and Compounds	7440-66-6					2.3E+03			2.3E+03
				5.0E-02	I						1.36E+09		1	0.1	Zineb	12122-67-7					3.9E+02	1.6E+03		3.2E+02
				8.0E-05	X						1.36E+09		1		Zirconium	7440-67-7					6.3E-01			6.3E-01

Resident Vapor Intrusion Screening Levels (VISL)
/HTML"User's Guide Variable References
/HTML"Corresponding Equations

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = DWSHA; W = TEF applied; E = RPF applied; U = user provided; G = see RSL User's Guide Section 5; CA = cancer; NC = noncancer.

Chemical	CAS Number	Does the chemical meet the definition for volatility? (HLC>1E-5 or VP>1)	Does the chemical have inhalation toxicity data? (IUR and/or RfC)	IsChemicalSufficiently Volatileand Toxicto PoseInhalation Risk Via VaporIntrusion from SoilSource? (C_{vp} > $C_{i,at}$Target?)	Is ChemicalSufficiently Volatile andToxic to PoseInhalationRisk Via VaporIntrusionfrom GroundwaterSource? (C_{hc} > $C_{i,at}$Target?)	Target Indoor Air Concentration (TCR=1E-06or THQ=0.1) MIN($C_{ia,cr}$,$C_{ia,nc}$) (µg/m^3)	Toxicity Basis	Target Sub-Slab and Near-sourceSoil Gas Concentration (TCR=1E-06or THQ=0.1) C_{sg},Target (µg/m^3)	Target Groundwater Concentration (TCR=1E-06or THQ=0.1) C_{gw},Target (µg/L)	Is Target Groundwater Concentration < MCL? (C_{gw} < MCL?)	Pure Phase Vapor Concentration C_{vp} (26.41 ℃) (µg/m^3)	Maximum Groundwater Vapor Concentration C_{hc} (µg/m^3)	Temperature for Maximum Groundwater Vapor Concentration (℃)	Lower Explosive Limit LEL (% by volume)	LEL Ref	IUR (ug/m^3)$^{-1}$	IUR Ref	RfC (mg/m^3)	RfC Ref	Mutagenic Indicator	Carcinogenic VISL TCR=1E-06 $C_{ia,c}$(µg/m^3)	Noncarcinogenic VISL THQ=0.1 $C_{ia,nc}$(µg/m^3)
Acenaphthene	83-32-9	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.78E+04	3.31E+04	2.64E+01	8.00E-01	YAWS	-		-		No	-	-
Acenaphthylene	208-96-8	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		5.47E+04	8.46E+04	2.64E+01	-		-		-		No	-	-
Acephate	30560-19-1	No	No	No (not volatile)	No (not volatile)	-		-	-		1.67E+01	1.68E+01	2.64E+01	-		-		-		No	-	-
Acetaldehyde	75-07-0	Yes	Yes	Yes	Yes	9.39E-01	NC	3.13E+01	3.30E+02	--	2.14E+09	2.85E+09	2.64E+01	4.00E+00	CRC	2.20E-06	I	9.00E-03	I	No	1.28E+00	9.39E-01
Acetochlor	34256-82-1	No	No	No (not volatile)	No (not volatile)	-		-	-		4.06E+02	2.03E+02	2.64E+01	-		-		-		No	-	-
Acetone	67-64-1	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		7.23E+08	1.51E+09	2.64E+01	2.50E+00	CRC	-		-		No	-	-
Acetone Cyanohydrin	75-86-5	No	Yes	No (not volatile)	No (not volatile)	2.09E-01		-	-		1.56E+06	8.83E+04	2.64E+01	2.20E+00	CRC	-		2.00E-03	X	No	-	2.09E-01
Acetonitrile	75-05-8	Yes	Yes	Yes	Yes	6.26E+00	NC	2.09E+02	4.19E+03	--	1.96E+08	1.49E+09	2.64E+01	3.00E+00	CRC	-		6.00E-02	I	No	-	6.26E+00
Acetophenone	98-86-2	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.57E+06	2.88E+06	2.64E+01	1.10E+00	YAWS	-		-		No	-	-
Acetylaminofluorene, 2-	53-96-3	No	Yes	No (not volatile)	No (not volatile)	2.16E-03		-	-		1.13E+00	4.34E-02	2.64E+01	-		1.30E-03	C	-		No	2.16E-03	-
Acifluorofen	50594-66-6	No	No	No (not volatile)	No (not volatile)	-		-	-		2.98E-01	2.96E-01	2.64E+01	-		-		-		No	-	-
Acridine	260-94-6	No	No	No (not volatile)	No (not volatile)	-		-	-		1.30E+03	7.14E+02	2.64E+01	-		-		-		No	-	-
Acrolein	107-02-8	Yes	Yes	Yes	Yes	2.09E-03	NC	6.95E-02	3.97E-01	--	8.26E+08	1.11E+09	2.64E+01	2.80E+00	CRC	-		2.00E-05	I	No	-	2.09E-03
Acrylamide	79-06-1	No	Yes	No (not volatile)	No (not volatile)	1.01E-02		-	-		2.68E+04	3.19E+04	2.64E+01	2.70E+00	YAWS	1.00E-04	I	6.00E-03	I	Mut	1.01E-02	6.26E-01
Acrylic Acid	79-10-7	Yes	Yes	Yes	Yes	2.09E-02	NC	6.95E-01	1.25E+03	--	1.54E+07	1.67E+07	2.64E+01	2.40E+00	CRC	-		2.00E-04	P	No	-	2.09E-02
Acrylonitrile	107-13-1	Yes	Yes	Yes	Yes	4.13E-02	CA	1.38E+00	6.87E+00	--	3.10E+08	4.47E+08	2.64E+01	3.00E+00	CRC	6.80E-05	I	2.00E-03	I	No	4.13E-02	2.09E-01
Adiponitrile	111-69-3	No	Yes	No (not volatile)	No (not volatile)	6.26E-01		-	-		3.95E+03	4.59E+03	2.64E+01	1.00E+00	CRC	-		6.00E-03	P	No	-	6.26E-01
Alachlor	15972-60-8	No	No	No (not volatile)	No (not volatile)	-		-	-		3.19E+02	8.16E+01	2.64E+01	-		-		-		No	-	-
Aldicarb	116-06-3	No	No	No (not volatile)	No (not volatile)	-		-	-		3.55E+02	3.55E+02	2.64E+01	-		-		-		No	-	-
Aldicarb Sulfone	1646-88-4	No	No	No (not volatile)	No (not volatile)	-		-	-		1.08E+03	1.38E+03	2.64E+01	-		-		-		No	-	-
Aldicarb sulfoxide	1646-87-3	No	No	No (not volatile)	No (not volatile)	-		-	-		1.11E+03	1.11E+03	2.64E+01	-		-		-		No	-	-
Aldrin	309-00-2	Yes	Yes	Yes	Yes	5.73E-04	CA	1.91E-02	2.26E-01	--	2.36E+03	4.30E+01	2.64E+01	-		4.90E-03	I	-		No	5.73E-04	-
Alizarin Red Compounds	NA	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Allyl Alcohol	107-18-6	Yes	Yes	Yes	Yes	1.04E-02	NC	3.48E-01	4.71E+01	--	8.15E+07	2.21E+08	2.64E+01	2.50E+00	CRC	-		1.00E-04	X	No	-	1.04E-02
Allyl Chloride	107-05-1	Yes	Yes	Yes	Yes	1.04E-01	NC	3.48E+00	2.20E-01	--	1.51E+09	1.60E+09	2.64E+01	2.90E+00	CRC	6.00E-06	C	1.00E-03	I	No	4.68E-01	1.04E-01
Aluminum	7429-90-5	No	Yes	No (not volatile)	No (not volatile)	5.21E-01		-	-		0.00E+00	-	2.64E+01	-		-		5.00E-03	P	No	-	5.21E-01
Aluminum Phosphide	20859-73-8	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Aluminum metaphosphate	13776-88-0	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Aluminum salts of inorganic phosphates	NA	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Ametryn	834-12-8	No	No	No (not volatile)	No (not volatile)	-		-	-		3.35E+01	2.08E+01	2.64E+01	-		-		-		No	-	-
Amino-4-chlorobenzotrifluoride, 3-	121-50-6	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.02E+06	5.65E+04	2.64E+01	-		-		-		No	-	-
Aminoazobenzene, p-	60-09-3	No	No	No (not volatile)	No (not volatile)	-		-	-		1.49E+01	1.35E-01	2.64E+01	-		-		-		No	-	-
Aminobiphenyl, 4-	92-67-1	No	Yes	No (not volatile)	No (not volatile)	4.68E-04		-	-		1.06E+03	1.53E+03	2.64E+01	7.00E-01	YAWS	6.00E-03	C	-		No	4.68E-04	-
Aminophenol, m-	591-27-5	No	No	No (not volatile)	No (not volatile)	-		-	-		5.61E+04	2.41E+02	2.64E+01	-		-		-		No	-	-
Aminophenol, o-	95-55-6	No	No	No (not volatile)	No (not volatile)	-		-	-		5.61E+04	1.62E+02	2.64E+01	-		-		-		No	-	-
Aminophenol, p-	123-30-8	No	No	No (not volatile)	No (not volatile)	-		-	-		2.35E+02	2.61E+02	2.64E+01	-		-		-		No	-	-
Aminopyridine, 4-	504-24-5	No	No	No (not volatile)	No (not volatile)	-		-	-		1.72E+03	9.57E+03	2.64E+01	-		-		-		No	-	-

Amitraz	33089-61-1	No	No	No (not volatile)	No (not volatile)	-		-	-		3.16E+01	4.04E+02	2.64E+01	-		-		-		No	-	-
Ammonia	7664-41-7	Yes	Yes	Yes	Yes	5.21E+01	NC	1.74E+03	7.66E+04	--	6.88E+09	3.28E+08	2.64E+01	1.60E+01	CRC	-		5.00E-01	I	No	-	5.21E+01
Ammonium Perchlorate	7790-98-9	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Ammonium Picrate	131-74-8	No	No	No (not volatile)	No (not volatile)	-		-	-		9.24E+00	8.83E+00	2.64E+01	-		-		-		No	-	-
Ammonium Sulfamate	7773-06-0	No	No	No (not volatile)	No (not volatile)	-		-	-		0.00E+00	-	2.64E+01	-		-		-		No	-	-
Ammonium perfluoro-2-methyl-3-oxahexanoate	62037-80-3	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Ammonium perfluorobutanoate	10495-86-0	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		4.21E+08	9.90E+05	2.64E+01	-		-		-		No	-	-
Ammonium perfluorohexanoate	21615-47-4	No	No	No (not volatile)	No (not volatile)	-		-	-		-	1.07E+01	2.64E+01	-		-		-		No	-	-
Ammonium polyphosphate	68333-79-9	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Amyl Alcohol, tert-	75-85-4	Yes	Yes	Yes	Yes	3.13E-01	NC	1.04E+01	5.11E+02	--	7.92E+07	6.73E+07	2.64E+01	1.20E+00	CRC	-		3.00E-03	X	No	-	3.13E-01
Aniline	62-53-3	No	Yes	No (not volatile)	No (not volatile)	1.04E-01		-	-		3.34E+06	3.26E+06	2.64E+01	1.30E+00	CRC	1.60E-06	C	1.00E-03	I	No	1.75E+00	1.04E-01
Anilinobenzothiazole	1843-21-6	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Anthracene	120-12-7	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		6.26E+01	1.13E+02	2.64E+01	6.00E-01	CRC	-		-		No	-	-
Anthraquinone, 9,10-	84-65-1	No	No	No (not volatile)	No (not volatile)	-		-	-		1.30E+00	1.53E+00	2.64E+01	-		-		-		No	-	-
Antimony (metallic)	7440-36-0	No	Yes	No (not volatile)	No (not volatile)	3.13E-02		-	-		0.00E+00	-	2.64E+01	-		-		3.00E-04	A	No	-	3.13E-02
Antimony Pentoxide	1314-60-9	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Antimony Potassium Tartrate	11071-15-1	No	No	No (not volatile)	No (not volatile)	-		-	-		4.16E-06	-	2.64E+01	-		-		-		No	-	-
Antimony Tetroxide	1332-81-6	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Antimony Trichloride	10025-91-9	No	No	No (not volatile)	No (not volatile)	-		-	-		1.23E+06	-	2.64E+01	-		-		-		No	-	-
Antimony Trioxide	1309-64-4	Indeterminate	Yes	No (not volatile)	No (not volatile)	2.09E-02		-	-		-	-	2.64E+01	-		-		2.00E-04	I	No	-	2.09E-02
Aroclor 1016	12674-11-2	Yes	Yes	Yes	Yes	1.40E-01	CA	4.68E+00	1.72E+01	--	5.54E+03	3.43E+03	2.64E+01	-		2.00E-05	G	-		No	1.40E-01	-
Aroclor 1221	11104-28-2	Yes	Yes	Yes	Yes	4.91E-03	CA	1.64E-01	5.27E-01	--	6.80E+04	1.40E+05	2.64E+01	-		5.71E-04	G	-		No	4.91E-03	-
Aroclor 1232	11141-16-5	Yes	Yes	Yes	Yes	4.91E-03	CA	1.64E-01	1.63E-01	--	4.12E+04	4.36E+04	2.64E+01	-		5.71E-04	G	-		No	4.91E-03	-
Aroclor 1242	53469-21-9	Yes	Yes	Yes	Yes	4.91E-03	CA	1.64E-01	3.04E-01	--	1.36E+03	4.47E+03	2.64E+01	-		5.71E-04	G	-		No	4.91E-03	-
Aroclor 1248	12672-29-6	Yes	Yes	Yes	Yes	4.91E-03	CA	1.64E-01	2.73E-01	--	7.76E+03	1.80E+03	2.64E+01	-		5.71E-04	G	-		No	4.91E-03	-
Aroclor 1254	11097-69-1	Yes	Yes	Yes	Yes	4.91E-03	CA	1.64E-01	3.67E-01	--	1.35E+03	5.75E+02	2.64E+01	-		5.71E-04	G	-		No	4.91E-03	-
Aroclor 1260	11096-82-5	Yes	Yes	Yes	Yes	4.91E-03	CA	1.64E-01	3.58E-01	--	8.61E+02	1.98E+02	2.64E+01	-		5.71E-04	G	-		No	4.91E-03	-
Aroclor 5460	11126-42-4	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.46E+02	2.72E+02	2.64E+01	-		-		-		No	-	-
Arsenic Salts	NA	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Arsenic, Inorganic	7440-38-2	Indeterminate	Yes	No (not volatile)	No (not volatile)	6.53E-04		-	-		-	-	2.64E+01	-		4.30E-03	I	1.50E-05	C	No	6.53E-04	1.56E-03
Arsine	7784-42-1	Indeterminate	Yes	No (not volatile)	No (not volatile)	5.21E-03		-	-		-	-	2.64E+01	5.10E+00	YAWS	-		5.00E-05	I	No	-	5.21E-03
Asulam	3337-71-1	No	No	No (not volatile)	No (not volatile)	-		-	-		1.78E+01	3.50E-01	2.64E+01	-		-		-		No	-	-
Atrazine	1912-24-9	No	No	No (not volatile)	No (not volatile)	-		-	-		3.35E+00	3.35E+00	2.64E+01	-		-		-		No	-	-
Auramine	492-80-8	No	Yes	No (not volatile)	No (not volatile)	1.12E-02		-	-		1.86E+01	8.68E+00	2.64E+01	-		2.50E-04	C	-		No	1.12E-02	-
Avermectin B1	65195-55-3	No	No	No (not volatile)	No (not volatile)	-		-	-		6.87E-23	1.89E-23	2.64E+01	-		-		-		No	-	-
Azinphos-methyl	86-50-0	No	Yes	No (not volatile)	No (not volatile)	1.04E+00		-	-		2.73E+01	2.04E+01	2.64E+01	-		-		1.00E-02	A	No	-	1.04E+00
Azobenzene	103-33-3	Yes	Yes	Yes	Yes	9.06E-02	CA	3.02E+00	1.46E+02	--	3.54E+03	3.97E+03	2.64E+01	-		3.10E-05	I	-		No	9.06E-02	-
Azodicarbonamide	123-77-3	No	Yes	No (not volatile)	No (not volatile)	7.30E-04		-	-		1.17E-03	1.17E-03	2.64E+01	-		-		7.00E-06	P	No	-	7.30E-04
Barium	7440-39-3	Indeterminate	Yes	No (not volatile)	No (not volatile)	5.21E-02		-	-		-	-	2.64E+01	-		-		5.00E-04	H	No	-	5.21E-02
Barium Cyanide	542-62-1	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Benfluralin	1861-40-1	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.18E+03	1.19E+03	2.64E+01	-		-		-		No	-	-
Benomyl	17804-35-2	No	No	No (not volatile)	No (not volatile)	-		-	-		5.78E-02	7.66E-04	2.64E+01	-		-		-		No	-	-
Bensulfuron-methyl	83055-99-6	No	No	No (not volatile)	No (not volatile)	-		-	-		4.64E-07	1.85E-05	2.64E+01	-		-		-		No	-	-
Bentazon	25057-89-0	No	No	No (not volatile)	No (not volatile)	-		-	-		4.46E+01	4.46E+01	2.64E+01	-		-		-		No	-	-
Benz[a]anthracene	56-55-3	Yes	Yes	Yes	Yes	1.69E-02	CA	5.63E-01	2.87E+01	--	2.58E+00	5.53E+00	2.64E+01	-		6.00E-05	E	-		Mut	1.69E-02	-
Benzaldehyde	100-52-7	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		7.25E+06	8.31E+06	2.64E+01	1.40E+00	YAWS	-		-		No	-	-
Benzene	71-43-2	Yes	Yes	Yes	Yes	3.60E-01	CA	1.20E+01	1.50E+00	Yes (5)	3.98E+08	4.31E+08	2.64E+01	1.20E+00	CRC	7.80E-06	I	3.00E-02	I	No	3.60E-01	3.13E+00
Benzene, Ethyldimethyl	29224-55-3	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		4.49E+06	7.39E+06	2.64E+01	-		-		-		No	-	-
Benzene, Ethylmethyl	25550-14-5	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		5.59E+07	1.53E+07	2.64E+01	-		-		-		No	-	-
Benzene, Methylpropenyl	768-00-3	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		3.34E+06	1.52E+07	2.64E+01	-		-		-		No	-	-
Benzene, Methylpropyl	28729-54-6	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-

Benzene, Trimethyl	25551-13-7	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		4.07E+07	1.89E+07	2.64E+01	-		-		-		No	-	-
Benzenediamine-2-methyl sulfate, 1,4-	6369-59-1	No	No	No (not volatile)	No (not volatile)	-		-	-		3.44E-07	8.86E-10	2.64E+01	-		-		-		No	-	-
Benzenethiol	108-98-5	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.14E+07	1.24E+07	2.64E+01	1.20E+00	YAWS	-		-		No	-	-
Benzidine	92-87-5	No	Yes	No (not volatile)	No (not volatile)	1.51E-05		-	-		8.90E+00	8.01E-01	2.64E+01	1.40E+00	YAWS	6.70E-02	I	-		Mut	1.51E-05	-
Benzo(e)pyrene	192-97-2	No	Yes	No (not volatile)	No (not volatile)	2.09E-04		-	-		7.74E-02	7.66E-02	2.64E+01	-		-		2.00E-06	X	No	-	2.09E-04
Benzo(j)fluoranthene	205-82-3	No	Yes	No (not volatile)	No (not volatile)	2.55E-02		-	-		3.56E-01	2.07E-02	2.64E+01	-		1.10E-04	C	-		No	2.55E-02	-
Benzo[a]pyrene	50-32-8	No	Yes	No (not volatile)	No (not volatile)	2.09E-04		-	-		7.45E-02	3.63E-02	2.64E+01	-		6.00E-04	I	2.00E-06	I	Mut	1.69E-03	2.09E-04
Benzo[b]fluoranthene	205-99-2	No	Yes	No (not volatile)	No (not volatile)	1.69E-02		-	-		6.79E+00	4.76E-02	2.64E+01	-		6.00E-05	E	-		Mut	1.69E-02	-
Benzo[g,h,i]perylene	191-24-2	No	No	No (not volatile)	No (not volatile)	-		-	-		1.49E-03	4.27E-03	2.64E+01	-		-		-		No	-	-
Benzo[k]fluoranthene	207-08-9	No	Yes	No (not volatile)	No (not volatile)	1.69E-01		-	-		1.31E-02	2.31E-02	2.64E+01	-		6.00E-06	E	-		Mut	1.69E-01	-
Benzofluoranthenes, total	56832-73-6	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Benzofluorene, 2,3-	243-17-4	No	No	No (not volatile)	No (not volatile)	-		-	-		6.40E-01	6.39E-01	2.64E+01	-		-		-		No	-	-
Benzoic Acid	65-85-0	No	No	No (not volatile)	No (not volatile)	-		-	-		4.60E+03	5.98E+03	2.64E+01	1.40E+00	YAWS	-		-		No	-	-
Benzoic acid, 4-hydroxy-, methyl ester	99-76-3	No	No	No (not volatile)	No (not volatile)	-		-	-		1.94E+03	2.28E+02	2.64E+01	-		-		-		No	-	-
Benzothiazole	95-16-9	No	No	No (not volatile)	No (not volatile)	-		-	-		1.04E+05	6.57E+04	2.64E+01	-		-		-		No	-	-
Benzotrichloride	98-07-7	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		4.35E+06	6.18E+05	2.64E+01	1.60E+00	YAWS	-		-		No	-	-
Benzyl Alcohol	100-51-6	No	No	No (not volatile)	No (not volatile)	-		-	-		5.47E+05	6.62E+05	2.64E+01	1.30E+00	YAWS	-		-		No	-	-
Benzyl Chloride	100-44-7	Yes	Yes	Yes	Yes	5.73E-02	CA	1.91E+00	3.14E+00	--	8.37E+06	9.57E+06	2.64E+01	1.10E+00	CRC	4.90E-05	C	1.00E-03	P	No	5.73E-02	1.04E-01
Beryllium and compounds	7440-41-7	No	Yes	No (not volatile)	No (not volatile)	1.17E-03		-	-		0.00E+00	-	2.64E+01	-		2.40E-03	I	2.00E-05	I	No	1.17E-03	2.09E-03
Bifenox	42576-02-3	No	No	No (not volatile)	No (not volatile)	-		-	-		1.84E+00	1.76E+00	2.64E+01	-		-		-		No	-	-
Biphenthrin	82657-04-3	No	No	No (not volatile)	No (not volatile)	-		-	-		4.09E+00	4.09E-02	2.64E+01	-		-		-		No	-	-
Biphenyl, 1,1'-	92-52-4	Yes	Yes	Yes	Yes	4.17E-02	NC	1.39E+00	2.98E+00	--	7.41E+04	1.05E+05	2.64E+01	6.00E-01	CRC	-		4.00E-04	X	No	-	4.17E-02
Bis(2-chloro-1-methylethyl) ether	108-60-1	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		5.15E+06	5.64E+06	2.64E+01	-		-		-		No	-	-
Bis(2-chloroethoxy)methane	111-91-1	No	No	No (not volatile)	No (not volatile)	-		-	-		1.23E+06	1.35E+06	2.64E+01	-		-		-		No	-	-
Bis(2-chloroethyl)ether	111-44-4	Yes	Yes	Yes	Yes	8.51E-03	CA	2.84E-01	1.11E+01	--	1.19E+07	1.32E+07	2.64E+01	2.70E+00	CRC	3.30E-04	I	-		No	8.51E-03	-
Bis(2-ethylhexyl)phthalate	117-81-7	No	Yes	No (not volatile)	No (not volatile)	1.17E+00		-	-		2.98E+00	3.54E+00	2.64E+01	3.00E-01	YAWS	2.40E-06	C	-		No	1.17E+00	-
Bis(Octanoyloxy)Di-N-Butyl Stannane	4731-77-5	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.17E+00	6.90E+02	2.64E+01	-		-		-		No	-	-
Bis(chloromethyl)ether	542-88-1	Yes	Yes	Yes	Yes	4.53E-05	CA	1.51E-03	2.37E-04	--	1.82E+08	4.21E+09	2.64E+01	6.50E+00	YAWS	6.20E-02	I	-		No	4.53E-05	-
Bis(oleoyloxy)dibutyl tin	13323-62-1	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.78E-08	2.19E-05	2.64E+01	-		-		-		No	-	-
Bis(trifluoromethylsulfonyl)amine (TFSI)	82113-65-3	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		4.08E+06	3.39E+08	2.64E+01	-		-		-		No	-	-
Bisphenol A	80-05-7	No	No	No (not volatile)	No (not volatile)	-		-	-		4.80E+00	5.98E-02	2.64E+01	6.00E-01	YAWS	-		-		No	-	-
Boron And Borates Only	7440-42-8	Indeterminate	Yes	No (not volatile)	No (not volatile)	2.09E+00		-	-		-	-	2.64E+01	-		-		2.00E-02	H	No	-	2.09E+00
Boron Trichloride	10294-34-5	Yes	Yes	Yes		2.09E+00		6.95E+01	-		6.30E+06	-	2.64E+01	-		-		2.00E-02	P	No	-	2.09E+00
Boron Trifluoride	7637-07-2	Yes	Yes	Yes		1.36E+00		4.52E+01	-		1.33E+11	-	2.64E+01	-		-		1.30E-02	C	No	-	1.36E+00
Bromacil	314-40-9	No	No	No (not volatile)	No (not volatile)	-		-	-		4.31E+00	4.30E+00	2.64E+01	-		-		-		No	-	-
Bromate	15541-45-4	Indeterminate	Yes	No (not volatile)	No (not volatile)	2.01E-02		-	-		-	-	2.64E+01	-		1.40E-04	C	-		No	2.01E-02	-
Bromine	7726-95-6	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.82E+09	-	2.64E+01	-		-		-		No	-	-
Bromo-2-chloroethane, 1-	107-04-0	Yes	Yes	Yes	Yes	6.26E-03	NC	2.09E-01	1.56E-01	--	2.55E+08	2.77E+08	2.64E+01	-		-		6.00E-05	X	No	-	6.26E-03
Bromo-3-fluorobenzene, 1-	1073-06-9	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.67E+07	4.17E+07	2.64E+01	-		-		-		No	-	-
Bromo-4-Ethylbenzene, 1-	1585-07-5	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		6.97E+06	2.99E+06	2.64E+01	-		-		-		No	-	-
Bromo-4-fluorobenzene, 1-	460-00-4	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.67E+07	1.51E+07	2.64E+01	-		-		-		No	-	-
Bromoacetic acid	79-08-3	No	No	No (not volatile)	No (not volatile)	-		-	-		8.86E+05	4.66E+05	2.64E+01	-		-		-		No	-	-
Bromoacetophenone, 3-	2142-63-4	No	No	No (not volatile)	No (not volatile)	-		-	-		3.30E+05	5.50E+04	2.64E+01	-		-		-		No	-	-
Bromobenzene	108-86-1	Yes	Yes	Yes	Yes	6.26E+00	NC	2.09E+02	5.64E+01	--	3.53E+07	4.95E+07	2.64E+01	1.50E+00	YAWS	-		6.00E-02	I	No	-	6.26E+00
Bromochloromethane	74-97-5	Yes	Yes	Yes	Yes	4.17E+00	NC	1.39E+02	6.61E+01	--	9.92E+08	1.05E+09	2.64E+01	-		-		4.00E-02	X	No	-	4.17E+00
Bromodichloromethane	75-27-4	Yes	Yes	Yes	Yes	7.59E-02	CA	2.53E+00	8.22E-01	Yes (80)	4.41E+08	2.80E+08	2.64E+01	-		3.70E-05	C	-		No	7.59E-02	-
Bromodiphenyl Ether, p-	101-55-3	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.01E+04	6.93E+03	2.64E+01	-		-		-		No	-	-
Bromoform	75-25-2	Yes	Yes	Yes	Yes	2.55E+00	CA	8.51E+01	1.08E+02	No (80)	7.34E+07	7.35E+07	2.64E+01	-		1.10E-06	I	-		No	2.55E+00	-
Bromomethane	74-83-9	Yes	Yes	Yes	Yes	5.21E-01	NC	1.74E+01	1.67E+00	--	8.25E+09	4.74E+09	2.64E+01	1.00E+01	CRC	-		5.00E-03	I	No	-	5.21E-01
Bromophenol, p-	106-41-2	No	No	No (not volatile)	No (not volatile)	-		-	-		1.09E+05	8.64E+04	2.64E+01	-		-		-		No	-	-
Bromophenyl-phenyl phthalate, 4-	NA	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-

Bromophos	2104-96-3	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.51E+03	2.51E+03	2.64E+01	-		-		-		No	-	-
Bromopropane, 1-	106-94-5	Yes	Yes	Yes	Yes	7.59E-01	CA	2.53E+01	2.40E+00	--	7.33E+08	7.76E+08	2.64E+01	-		3.70E-06	C	1.00E-01	A	No	7.59E-01	1.04E+01
Bromopyridine, 2-	109-04-6	No	No	No (not volatile)	No (not volatile)	-		-	-		6.54E+06	6.55E+06	2.64E+01	-		-		-		No	-	-
Bromotrichloromethane	75-62-7	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		4.16E+08	1.40E+07	2.64E+01	-		-		-		No	-	-
Bromoxynil	1689-84-5	No	No	No (not volatile)	No (not volatile)	-		-	-		7.03E-01	7.02E-01	2.64E+01	-		-		-		No	-	-
Bromoxynil Octanoate	1689-99-2	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.04E+02	1.04E+02	2.64E+01	-		-		-		No	-	-
Butadiene, 1,3-	106-99-0	Yes	Yes	Yes	Yes	9.36E-02	CA	3.12E+00	3.00E-02	--	6.13E+09	2.29E+09	2.64E+01	2.00E+00	CRC	3.00E-05	I	2.00E-03	I	No	9.36E-02	2.09E-01
Butanediol, 2,3-	513-85-9	No	No	No (not volatile)	No (not volatile)	-		-	-		1.18E+06	1.29E+06	2.64E+01	-		-		-		No	-	-
Butanoic acid, 4-(2,4-dichlorophenoxy)-	94-82-6	No	No	No (not volatile)	No (not volatile)	-		-	-		1.49E+02	4.31E+00	2.64E+01	-		-		-		No	-	-
Butanol	35296-72-1	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		5.34E+07	4.63E+07	2.64E+01	-		-		-		No	-	-
Butanol, N-	71-36-3	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.67E+07	2.50E+07	2.64E+01	1.40E+00	CRC	-		-		No	-	-
Butanone-2, 4-chloro-4,4-difluoro	1515-16-8	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Butyl Alcohol, t-	75-65-0	Yes	Yes	Yes	Yes	5.21E+02	NC	1.74E+04	1.30E+06	--	1.62E+08	4.01E+08	2.64E+01	2.40E+00	CRC	-		5.00E+00	I	No	-	5.21E+02
Butyl Benzyl Phthalate	85-68-7	No	No	No (not volatile)	No (not volatile)	-		-	-		1.39E+02	1.59E+02	2.64E+01	-		-		-		No	-	-
Butyl Formate, tert-	762-75-4	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		4.75E+08	3.34E+08	2.64E+01	-		-		-		No	-	-
Butyl acrylate, n-	141-32-2	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		3.76E+07	5.83E+07	2.64E+01	1.70E+00	CRC	-		-		No	-	-
Butyl alcohol, sec-	78-92-2	Yes	Yes	Yes	Yes	3.13E+03	NC	1.04E+05	7.76E+06	--	7.31E+07	7.30E+07	2.64E+01	1.70E+00	CRC	-		3.00E+01	P	No	-	3.13E+03
Butylacetate	123-86-4	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		7.19E+07	1.04E+08	2.64E+01	1.70E+00	CRC	-		-		No	-	-
Butylate	2008-41-5	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.52E+05	1.55E+05	2.64E+01	-		-		-		No	-	-
Butylated hydroxyanisole	25013-16-5	No	Yes	No (not volatile)	No (not volatile)	4.93E+01		-	-		4.81E+04	1.14E+04	2.64E+01	-		5.70E-08	C	-		No	4.93E+01	-
Butylated hydroxytoluene	128-37-0	No	No	No (not volatile)	No (not volatile)	-		-	-		6.12E+04	1.16E+02	2.64E+01	5.00E-01	YAWS	-		-		No	-	-
Butylbenzene, n-	104-51-8	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		7.68E+06	8.37E+06	2.64E+01	8.00E-01	CRC	-		-		No	-	-
Butylbenzene, sec-	135-98-8	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.26E+07	1.41E+07	2.64E+01	8.00E-01	YAWS	-		-		No	-	-
Butylbenzene, tert-	98-06-6	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.59E+07	1.77E+07	2.64E+01	7.00E-01	CRC	-		-		No	-	-
Butylchloride, t-	507-20-0	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.50E+09	1.58E+09	2.64E+01	1.90E+00	YAWS	-		-		No	-	-
Butylphthalyl Butylglycolate	85-70-1	No	No	No (not volatile)	No (not volatile)	-		-	-		1.28E+02	7.41E+00	2.64E+01	-		-		-		No	-	-
Butyltin	78763-54-9	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		7.33E+08	1.45E+10	2.64E+01	-		-		-		No	-	-
Cacodylic Acid	75-60-5	No	No	No (not volatile)	No (not volatile)	-		-	-		7.42E-01	1.47E+00	2.64E+01	-		-		-		No	-	-
Cadmium (Diet)	7440-43-9	No	Yes	No (not volatile)	No (not volatile)	1.04E-03		-	-		0.00E+00	-	2.64E+01	-		1.80E-03	I	1.00E-05	A	No	1.56E-03	1.04E-03
Cadmium (Water)	7440-43-9	No	Yes	No (not volatile)	No (not volatile)	1.04E-03		-	-		0.00E+00	-	2.64E+01	-		1.80E-03	I	1.00E-05	A	No	1.56E-03	1.04E-03
Calcium	7440-70-2	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Calcium Cyanide	592-01-8	Indeterminate	Yes	No (not volatile)	No (not volatile)	9.39E-01		-	-		-	-	2.64E+01	-		-		9.00E-03	C	No	-	9.39E-01
Calcium hydroxide phosphate	12167-74-7	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Calcium pyrophosphate	7790-76-3	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Calcium salts of inorganic phosphates	NA	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Caprolactam	105-60-2	No	Yes	No (not volatile)	No (not volatile)	2.29E-01		-	-		9.74E+03	9.08E+05	2.64E+01	3.00E-01	YAWS	-		2.20E-03	C	No	-	2.29E-01
Captafol	2425-06-1	No	Yes	No (not volatile)	No (not volatile)	6.53E-02		-	-		2.82E-01	2.82E-01	2.64E+01	-		4.30E-05	C	-		No	6.53E-02	-
Captan	133-06-2	No	Yes	No (not volatile)	No (not volatile)	4.25E+00		-	-		1.45E+00	1.46E+00	2.64E+01	-		6.60E-07	C	-		No	4.25E+00	-
Carbaryl	63-25-2	No	No	No (not volatile)	No (not volatile)	-		-	-		1.47E+01	1.47E+01	2.64E+01	-		-		-		No	-	-
Carbazole	86-74-8	No	No	No (not volatile)	No (not volatile)	-		-	-		6.74E+00	9.91E+00	2.64E+01	-		-		-		No	-	-
Carbofuran	1563-66-2	No	No	No (not volatile)	No (not volatile)	-		-	-		5.77E+01	4.04E+01	2.64E+01	-		-		-		No	-	-
Carbon Disulfide	75-15-0	Yes	Yes	Yes	Yes	7.30E+01	NC	2.43E+03	1.18E+02	--	1.47E+09	1.33E+09	2.64E+01	1.30E+00	CRC	-		7.00E-01	I	No	-	7.30E+01
Carbon Monoxide	630-08-0	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.34E+14	1.28E+09	2.64E+01	1.25E+01	CRC	-		-		No	-	-
Carbon Tetrachloride	56-23-5	Yes	Yes	Yes	Yes	4.68E-01	CA	1.56E+01	3.92E-01	Yes (5)	9.51E+08	9.47E+08	2.64E+01	-		6.00E-06	I	1.00E-01	I	No	4.68E-01	1.04E+01
Carbonyl Sulfide	463-58-1	Yes	Yes	Yes	Yes	1.04E+01	NC	3.48E+02	4.20E-01	--	3.04E+10	3.03E+10	2.64E+01	1.20E+01	CRC	-		1.00E-01	P	No	-	1.04E+01
Carbosulfan	55285-14-8	No	No	No (not volatile)	No (not volatile)	-		-	-		6.28E+00	6.28E+00	2.64E+01	-		-		-		No	-	-
Carboxin	5234-68-4	No	No	No (not volatile)	No (not volatile)	-		-	-		1.90E+00	1.92E+00	2.64E+01	-		-		-		No	-	-
Catechol	120-80-9	No	No	No (not volatile)	No (not volatile)	-		-	-		2.17E+04	2.57E+04	2.64E+01	1.60E+00	YAWS	-		-		No	-	-

Ceric oxide	1306-38-3	Indeterminate	Yes	No (not volatile)	No (not volatile)	9.39E-02		-	-		-	-	2.64E+01	-		-		9.00E-04	I	No	-	9.39E-02
Cerium, Stable	7440-45-1	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Chloral	75-87-6	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		3.96E+08	3.82E+03	2.64E+01	-		-		-		No	-	-
Chloral Hydrate	302-17-0	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.33E+08	1.97E+05	2.64E+01	-		-		-		No	-	-
Chloramben	133-90-4	No	No	No (not volatile)	No (not volatile)	-		-	-		1.11E+00	1.11E+00	2.64E+01	-		-		-		No	-	-
Chloramine	127-65-1	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Chloramines, Organic	NA	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Chloranil	118-75-2	No	No	No (not volatile)	No (not volatile)	-		-	-		3.02E+01	3.34E+00	2.64E+01	-		-		-		No	-	-
Chlorate (ClO3) as	14866-68-3	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Chlordane (alpha)	5103-71-9	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		7.93E+02	1.11E+02	2.64E+01	-		-		-		No	-	-
Chlordane (gamma)	5103-74-2	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.11E+03	1.11E+02	2.64E+01	-		-		-		No	-	-
Chlordane (technical mixture)	12789-03-6	Yes	Yes	Yes	Yes	2.81E-02	CA	9.36E-01	1.10E+01	No (2)	2.20E+02	1.43E+02	2.64E+01	-		1.00E-04	I	7.00E-04	I	No	2.81E-02	7.30E-02
Chlordecone (Kepone)	143-50-0	No	Yes	No (not volatile)	No (not volatile)	6.10E-04		-	-		5.94E+00	5.94E+00	2.64E+01	-		4.60E-03	C	-		No	6.10E-04	-
Chlorfenvinphos	470-90-6	No	No	No (not volatile)	No (not volatile)	-		-	-		1.45E+02	1.47E+02	2.64E+01	-		-		-		No	-	-
Chloride	16887-00-6	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Chlorimuron, Ethyl-	90982-32-4	No	No	No (not volatile)	No (not volatile)	-		-	-		8.92E-05	8.93E-05	2.64E+01	-		-		-		No	-	-
Chlorinated Hydrocarbons (total)	NA	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Chlorine	7782-50-5	Yes	Yes	Yes	Yes	1.51E-02	NC	5.04E-01	3.07E-02	Yes (4000)	2.23E+10	3.10E+09	2.64E+01	-		-		1.45E-04	A	No	-	1.51E-02
Chlorine Dioxide	10049-04-4	Yes	Yes	Yes	Yes	2.09E-02	NC	6.95E-01	1.21E-02	Yes (800)	2.75E+09	1.38E+10	2.64E+01	-		-		2.00E-04	I	No	-	2.09E-02
Chlorite	14998-27-7	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Chlorite (Sodium Salt)	7758-19-2	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Chloro-1,1-difluoroethane, 1-	75-68-3	Yes	Yes	Yes	Yes	5.21E+03	NC	1.74E+05	1.49E+03	--	1.38E+10	4.91E+09	2.64E+01	6.00E+00	CRC	-		5.00E+01	I	No	-	5.21E+03
Chloro-1,3-butadiene, 2- (Chloroprene)	126-99-8	Yes	Yes	Yes	Yes	9.36E-03	CA	3.12E-01	3.83E-03	--	1.03E+09	2.14E+09	2.64E+01	4.00E+00	CRC	3.00E-04	I	2.00E-02	I	No	9.36E-03	2.09E+00
Chloro-2-methylaniline HCl, 4-	3165-93-3	No	No	No (not volatile)	No (not volatile)	-		-	-		3.91E+05	6.08E+04	2.64E+01	-		-		-		No	-	-
Chloro-2-methylaniline, 4-	95-69-2	No	Yes	No (not volatile)	No (not volatile)	3.65E-02		-	-		3.11E+05	8.61E+04	2.64E+01	-		7.70E-05	C	-		No	3.65E-02	-
Chloro-2-methylphenol, 4-	1570-64-5	No	No	No (not volatile)	No (not volatile)	-		-	-		1.84E+05	1.85E+05	2.64E+01	-		-		-		No	-	-
Chloro-4-methylphenol	35421-08-0	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Chloro-6-fluorophenol, 2-	2040-90-6	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Chloroacetaldehyde, 2-	107-20-0	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.71E+08	1.16E+08	2.64E+01	5.70E+00	YAWS	-		-		No	-	-
Chloroacetamide	79-07-2	No	No	No (not volatile)	No (not volatile)	-		-	-		2.60E+05	1.45E+04	2.64E+01	-		-		-		No	-	-
Chloroacetic Acid	79-11-8	No	No	No (not volatile)	No (not volatile)	-		-	-		3.30E+05	3.59E+05	2.64E+01	-		-		-		No	-	-
Chloroacetophenone, 2-	532-27-4	No	Yes	No (not volatile)	No (not volatile)	3.13E-03		-	-		4.49E+04	1.73E+05	2.64E+01	-		-		3.00E-05	I	No	-	3.13E-03
Chloroaniline	27134-26-5	No	No	No (not volatile)	No (not volatile)	-		-	-		1.40E+06	1.80E+06	2.64E+01	-		-		-		No	-	-
Chloroaniline, 3-	108-42-9	No	No	No (not volatile)	No (not volatile)	-		-	-		4.53E+05	2.45E+05	2.64E+01	1.50E+00	YAWS	-		-		No	-	-
Chloroaniline, p-	106-47-8	No	No	No (not volatile)	No (not volatile)	-		-	-		1.85E+05	2.07E+05	2.64E+01	2.20E+00	YAWS	-		-		No	-	-
Chlorobenzene	108-90-7	Yes	Yes	Yes	Yes	5.21E+00	NC	1.74E+02	3.82E+01	Yes (100)	7.25E+07	6.80E+07	2.64E+01	1.30E+00	CRC	-		5.00E-02	P	No	-	5.21E+00
Chlorobenzene sulfonic acid, p-	98-66-8	No	No	No (not volatile)	No (not volatile)	-		-	-		4.43E+01	2.33E+04	2.64E+01	-		-		-		No	-	-
Chlorobenzilate	510-15-6	No	Yes	No (not volatile)	No (not volatile)	9.06E-02		-	-		3.85E+01	3.85E+01	2.64E+01	-		3.10E-05	C	-		No	9.06E-02	-
Chlorobenzoic Acid, 2-	118-91-2	No	No	No (not volatile)	No (not volatile)	-		-	-		5.56E+03	6.38E+03	2.64E+01	1.50E+00	YAWS	-		-		No	-	-
Chlorobenzoic Acid, p-	74-11-3	No	No	No (not volatile)	No (not volatile)	-		-	-		1.96E+04	2.36E+02	2.64E+01	-		-		-		No	-	-
Chlorobenzotrifluoride, 3-nitro-4-	121-17-5	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.43E+06	2.25E+05	2.64E+01	-		-		-		No	-	-
Chlorobenzotrifluoride, 4-	98-56-6	Yes	Yes	Yes	Yes	3.26E-01	CA	1.09E+01	2.13E-01	--	7.41E+07	4.45E+07	2.64E+01	1.80E+00	YAWS	8.60E-06	C	3.00E-01	P	No	3.26E-01	3.13E+01
Chlorobiphenyl, p-	2051-62-9	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.07E+05	3.14E+04	2.64E+01	-		-		-		No	-	-
Chlorobutane, 1-	109-69-3	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		5.04E+08	7.96E+08	2.64E+01	1.90E+00	CRC	-		-		No	-	-
Chlorobutane, 2-	78-86-4	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		7.80E+08	1.04E+09	2.64E+01	1.90E+00	YAWS	-		-		No	-	-
Chlorocyclopentadiene	41851-50-7	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.10E+08	8.89E+08	2.64E+01	-		-		-		No	-	-
Chlorodibromoethane	73506-94-2	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Chlorodifluoromethane	75-45-6	Yes	Yes	Yes	Yes	5.21E+03	NC	1.74E+05	3.06E+03	--	3.37E+10	4.72E+09	2.64E+01	-		-		5.00E+01	I	No	-	5.21E+03
Chloroethanol, 2-	107-07-3	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		3.11E+07	3.40E+07	2.64E+01	4.90E+00	CRC	-		-		No	-	-

Chloroethylvinyl ether, 2-	110-75-8	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.53E+08	1.54E+08	2.64E+01	-		-		-		No	-	-
Chloroform	67-66-3	Yes	Yes	Yes	Yes	1.22E-01	CA	4.07E+00	7.71E-01	Yes (80)	1.26E+09	1.26E+09	2.64E+01	-		2.30E-05	I	9.77E-02	A	No	1.22E-01	1.02E+01
Chloromethane	74-87-3	Yes	Yes	Yes	Yes	9.39E+00	NC	3.13E+02	2.52E+01	--	1.17E+10	1.98E+09	2.64E+01	8.10E+00	CRC	-		9.00E-02	I	No	-	9.39E+00
Chloromethyl Methyl Ether	107-30-2	Yes	Yes	Yes	Yes	4.07E-03	CA	1.36E-01	3.11E-01	--	1.30E+08	9.09E+08	2.64E+01	-		6.90E-04	C	-		No	4.07E-03	-
Chloronaphthalene, Beta-	91-58-7	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.07E+05	1.71E+05	2.64E+01	-		-		-		No	-	-
Chloronaphthalene, alpha-	90-13-1	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.54E+05	2.85E+05	2.64E+01	1.00E+00	YAWS	-		-		No	-	-
Chloronitrobenzene, o-	88-73-3	No	Yes	No (not volatile)	No (not volatile)	1.04E-03		-	-		1.54E+05	1.89E+05	2.64E+01	-		-		1.00E-05	X	No	-	1.04E-03
Chloronitrobenzene, p-	100-00-5	No	Yes	No (not volatile)	No (not volatile)	2.09E-01		-	-		1.86E+05	5.07E+04	2.64E+01	-		-		2.00E-03	P	No	-	2.09E-01
Chlorooctadecane, 1-	3386-33-2	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.65E+02	0.00E+00	2.64E+01	-		-		-		No	-	-
Chlorophenol, 2-	95-57-8	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.75E+07	5.64E+06	2.64E+01	1.70E+00	YAWS	-		-		No	-	-
Chlorophenol, 3-	108-43-0	No	No	No (not volatile)	No (not volatile)	-		-	-		8.66E+05	4.07E+05	2.64E+01	1.70E+00	YAWS	-		-		No	-	-
Chlorophenol, 4-	106-48-9	No	No	No (not volatile)	No (not volatile)	-		-	-		6.15E+05	6.84E+05	2.64E+01	1.70E+00	YAWS	-		-		No	-	-
Chlorophenyl Methyl Sulfide, p-	123-09-1	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.13E+06	5.64E+05	2.64E+01	-		-		-		No	-	-
Chlorophenyl Methyl Sulfoxide	934-73-6	No	No	No (not volatile)	No (not volatile)	-		-	-		2.51E+04	2.12E+03	2.64E+01	-		-		-		No	-	-
Chlorophenyl phenyl ether, 4-	7005-72-3	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.97E+04	1.21E+04	2.64E+01	-		-		-		No	-	-
Chloropicrin	76-06-2	Yes	Yes	Yes	Yes	4.17E-02	NC	1.39E+00	4.65E-01	--	2.12E+08	1.45E+08	2.64E+01	-		-		4.00E-04	C	No	-	4.17E-02
Chloropropane, 2-	75-29-6	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.18E+09	2.32E+09	2.64E+01	2.80E+00	CRC	-		-		No	-	-
Chlorothalonil	1897-45-6	No	No	No (not volatile)	No (not volatile)	-		-	-		8.15E+00	7.57E+01	2.64E+01	-		-		-		No	-	-
Chlorotoluene, o-	95-49-8	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.34E+07	5.91E+07	2.64E+01	1.30E+00	YAWS	-		-		No	-	-
Chlorotoluene, p-	106-43-4	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.83E+07	2.07E+07	2.64E+01	1.30E+00	YAWS	-		-		No	-	-
Chlorozotocin	54749-90-5	No	Yes	No (not volatile)	No (not volatile)	4.07E-05		-	-		5.69E-07	2.75E-11	2.64E+01	-		6.90E-02	C	-		No	4.07E-05	-
Chlorpropham	101-21-3	No	No	No (not volatile)	No (not volatile)	-		-	-		2.07E+03	2.07E+03	2.64E+01	-		-		-		No	-	-
Chlorpyrifos	2921-88-2	No	No	No (not volatile)	No (not volatile)	-		-	-		3.82E+02	1.34E+02	2.64E+01	-		-		-		No	-	-
Chlorpyrifos Methyl	5598-13-0	No	No	No (not volatile)	No (not volatile)	-		-	-		7.29E+02	7.30E+02	2.64E+01	-		-		-		No	-	-
Chlorsulfuron	64902-72-3	No	No	No (not volatile)	No (not volatile)	-		-	-		4.33E-04	4.33E-04	2.64E+01	-		-		-		No	-	-
Chlorthal-dimethyl	1861-32-1	No	No	No (not volatile)	No (not volatile)	-		-	-		4.46E+01	4.98E+01	2.64E+01	-		-		-		No	-	-
Chlorthiophos	60238-56-4	No	No	No (not volatile)	No (not volatile)	-		-	-		7.71E+06	1.47E+01	2.64E+01	-		-		-		No	-	-
Chromium(III) (Soluble Compounds)	16065-83-1	Indeterminate	Yes	No (not volatile)	No (not volatile)	6.26E-03		-	-		-	-	2.64E+01	-		-		6.00E-05	C	No	-	6.26E-03
Chromium(III), Insoluble Salts	16065-83-1	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Chromium(VI)	18540-29-9	Indeterminate	Yes	No (not volatile)	No (not volatile)	1.21E-05		-	-		-	-	2.64E+01	-		8.40E-02	G	1.00E-04	I	Mut	1.21E-05	1.04E-02
Chromium, Total	7440-47-3	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Chrysene	218-01-9	No	Yes	No (not volatile)	No (not volatile)	1.69E+00		-	-		7.65E-02	5.17E-01	2.64E+01	5.00E-01	YAWS	6.00E-07	E	-		Mut	1.69E+00	-
Clofentezine	74115-24-5	No	No	No (not volatile)	No (not volatile)	-		-	-		1.59E-02	1.59E-02	2.64E+01	-		-		-		No	-	-
Cobalt	7440-48-4	No	Yes	No (not volatile)	No (not volatile)	3.12E-04		-	-		0.00E+00	-	2.64E+01	-		9.00E-03	P	6.00E-06	P	No	3.12E-04	6.26E-04
Coke Oven Emissions	NA	Yes	Yes			1.64E-03		-	-		-	-	2.64E+01	-		6.20E-04	I	-		Mut	1.64E-03	-
Complex Mixtures of Aliphatic and Aromatic Hydrocarbons	NA	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Copper	7440-50-8	No	No	No (not volatile)	No (not volatile)	-		-	-		0.00E+00	-	2.64E+01	-		-		-		No	-	-
Copper Cyanide	544-92-3	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Coronene	191-07-1	No	No	No (not volatile)	No (not volatile)	-		-	-		3.51E-05	1.21E-04	2.64E+01	-		-		-		No	-	-
Creosote	8001-58-9	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Cresol, m-	108-39-4	No	Yes	No (not volatile)	No (not volatile)	6.26E+01		-	-		6.40E+05	8.84E+05	2.64E+01	1.10E+00	CRC	-		6.00E-01	C	No	-	6.26E+01
Cresol, o-	95-48-7	No	Yes	No (not volatile)	No (not volatile)	6.26E+01		-	-		1.74E+06	1.40E+06	2.64E+01	1.40E+00	CRC	-		6.00E-01	C	No	-	6.26E+01
Cresol, p-	106-44-5	No	Yes	No (not volatile)	No (not volatile)	6.26E+01		-	-		6.40E+05	9.78E+05	2.64E+01	1.10E+00	CRC	-		6.00E-01	C	No	-	6.26E+01
Cresol, p-chloro-m-	59-50-7	No	No	No (not volatile)	No (not volatile)	-		-	-		3.83E+05	4.25E+05	2.64E+01	-		-		-		No	-	-
Cresols	1319-77-3	No	Yes	No (not volatile)	No (not volatile)	6.26E+01		-	-		2.97E+06	2.55E+05	2.64E+01	-		-		6.00E-01	C	No	-	6.26E+01
Crotonaldehyde	4170-30-3	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.13E+08	7.75E+07	2.64E+01	-		-		-		No	-	-
Crotonaldehyde, trans-	123-73-9	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.13E+08	1.18E+08	2.64E+01	2.10E+00	CRC	-		-		No	-	-
Cumene	98-82-8	Yes	Yes	Yes	Yes	4.17E+01	NC	1.39E+03	8.08E+01	--	2.91E+07	3.17E+07	2.64E+01	9.00E-01	CRC	-		4.00E-01	I	No	-	4.17E+01

Cupferron	135-20-6	No	Yes	No (not volatile)	No (not volatile)	4.46E-02		-	-		5.25E+02	9.00E+04	2.64E+01	-		6.30E-05	C	-		No	4.46E-02	-
Cyanazine	21725-46-2	No	No	No (not volatile)	No (not volatile)	-		-	-		1.79E+00	1.79E-02	2.64E+01	-		-		-		No	-	-
Cyanide (CN-)	57-12-5	Yes	Yes	Yes	Yes	8.34E-02	NC	2.78E+00	2.01E+01	Yes (200)	4.31E+08	3.96E+08	2.64E+01	-		-		8.00E-04	G	No	-	8.34E-02
Cyanogen	460-19-5	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.20E+10	1.83E+09	2.64E+01	6.60E+00	CRC	-		-		No	-	-
Cyanogen Bromide	506-68-3	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		6.93E+08	-	2.64E+01	-		-		-		No	-	-
Cyanogen Chloride	506-77-4	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		4.05E+09	4.98E+09	2.64E+01	6.60E+00	YAWS	-		-		No	-	-
Cyclohexane	110-82-7	Yes	Yes	Yes	Yes	6.26E+02	NC	2.09E+04	9.64E+01	--	4.38E+08	3.57E+08	2.64E+01	1.30E+00	CRC	-		6.00E+00	I	No	-	6.26E+02
Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	87-84-3	No	No	No (not volatile)	No (not volatile)	-		-	-		9.55E+01	2.15E+00	2.64E+01	-		-		-		No	-	-
Cyclohexanone	108-94-1	Yes	Yes	Yes	Yes	7.30E+01	NC	2.43E+03	1.80E+05	--	2.29E+07	1.01E+07	2.64E+01	1.10E+00	CRC	-		7.00E-01	P	No	-	7.30E+01
Cyclohexene	110-83-8	Yes	Yes	Yes	Yes	1.04E+02	NC	3.48E+03	5.29E+01	--	3.93E+08	4.20E+08	2.64E+01	1.20E+00	CRC	-		1.00E+00	X	No	-	1.04E+02
Cyclohexylamine	108-91-8	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		5.39E+07	1.83E+08	2.64E+01	1.90E+00	CRC	-		-		No	-	-
Cyclopentadiene	542-92-7	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.55E+09	1.62E+09	2.64E+01	1.70E+00	YAWS	-		-		No	-	-
Cyfluthrin	68359-37-5	No	No	No (not volatile)	No (not volatile)	-		-	-		3.50E-03	3.56E-03	2.64E+01	-		-		-		No	-	-
Cyhalothrin	68085-85-8	No	No	No (not volatile)	No (not volatile)	-		-	-		3.63E-02	3.03E-01	2.64E+01	-		-		-		No	-	-
Cypermethrin	52315-07-8	No	No	No (not volatile)	No (not volatile)	-		-	-		6.87E-02	6.87E-02	2.64E+01	-		-		-		No	-	-
Cyromazine	66215-27-8	No	No	No (not volatile)	No (not volatile)	-		-	-		3.00E-02	3.00E-02	2.64E+01	-		-		-		No	-	-
DDD, o,p'-	53-19-0	No	No	No (not volatile)	No (not volatile)	-		-	-		3.34E+01	3.34E+01	2.64E+01	-		-		-		No	-	-
DDT, o,p'-	789-02-6	No	No	No (not volatile)	No (not volatile)	-		-	-		2.57E+01	2.58E+01	2.64E+01	-		-		-		No	-	-
DDT/DDE/DDD (total)	NA	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Dalapon	75-99-0	No	No	No (not volatile)	No (not volatile)	-		-	-		1.16E+06	1.27E+06	2.64E+01	-		-		-		No	-	-
Daminozide	1596-84-5	No	Yes	No (not volatile)	No (not volatile)	5.51E-01		-	-		1.72E+03	1.73E+03	2.64E+01	-		5.10E-06	C	-		No	5.51E-01	-
Decabromodiphenyl ether, 2,2',3,3',4,4',5,5',6,6'- (BDE-209)	1163-19-5	No	No	No (not volatile)	No (not volatile)	-		-	-		2.41E-04	5.85E-05	2.64E+01	-		-		-		No	-	-
Decane	124-18-5	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.09E+07	1.20E+07	2.64E+01	8.00E-01	CRC	-		-		No	-	-
Decanol, n-	112-30-1	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		7.24E+04	5.43E+04	2.64E+01	-		-		-		No	-	-
Deltamethrin	52918-63-5	No	No	No (not volatile)	No (not volatile)	-		-	-		4.08E-01	4.08E-01	2.64E+01	-		-		-		No	-	-
Demeton	8065-48-3	No	No	No (not volatile)	No (not volatile)	-		-	-		9.45E+03	1.04E+05	2.64E+01	-		-		-		No	-	-
Di(2-ethylhexyl)adipate	103-23-1	No	No	No (not volatile)	No (not volatile)	-		-	-		1.69E+01	1.65E+01	2.64E+01	4.00E-01	CRC	-		-		No	-	-
Di-n-butyltin bis(2-ethylhexanoate)	2781-10-4	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.60E+01	4.36E+03	2.64E+01	-		-		-		No	-	-
Di-n-butyltin bis(methyl maleate)	15546-11-9	No	No	No (not volatile)	No (not volatile)	-		-	-		2.06E+00	8.61E-02	2.64E+01	-		-		-		No	-	-
Di-n-butyltin bis(n-butyl maleate)	15546-16-4	No	No	No (not volatile)	No (not volatile)	-		-	-		1.62E-02	4.11E-04	2.64E+01	-		-		-		No	-	-
Di-n-butyltin dilaurate	77-58-7	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.02E-02	1.97E+07	2.64E+01	-		-		-		No	-	-
Di-n-butyltin distearate	5847-55-2	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		4.78E-08	1.14E-05	2.64E+01	-		-		-		No	-	-
Di-n-hexylphthalate	84-75-3	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.52E+02	6.21E+01	2.64E+01	-		-		-		No	-	-
Diallate	2303-16-4	No	No	No (not volatile)	No (not volatile)	-		-	-		2.18E+03	2.17E+03	2.64E+01	-		-		-		No	-	-
Diammonium phosphate	7783-28-0	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Diazinon	333-41-5	No	No	No (not volatile)	No (not volatile)	-		-	-		1.47E+03	1.85E+02	2.64E+01	-		-		-		No	-	-
Dibenz[a,h]anthracene	53-70-3	No	Yes	No (not volatile)	No (not volatile)	1.69E-03		-	-		1.43E-02	1.80E-02	2.64E+01	-		6.00E-04	E	-		Mut	1.69E-03	-
Dibenzo(a,e)pyrene	192-65-4	No	Yes	No (not volatile)	No (not volatile)	2.55E-03		-	-		1.14E-03	4.62E-05	2.64E+01	-		1.10E-03	C	-		No	2.55E-03	-
Dibenzofuran	132-64-9	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.24E+04	5.35E+04	2.64E+01	8.00E-01	YAWS	-		-		No	-	-
Dibenzothiophene	132-65-0	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.03E+03	2.55E+03	2.64E+01	-		-		-		No	-	-
Dibromo-3-chloropropane, 1,2-	96-12-8	Yes	Yes	Yes	Yes	1.69E-04	CA	5.63E-03	2.56E-02	Yes (0)	7.37E+06	8.11E+06	2.64E+01	-		6.00E-03	P	2.00E-04	I	Mut	1.69E-04	2.09E-02
Dibromoacetic acid	631-64-1	No	No	No (not volatile)	No (not volatile)	-		-	-		2.69E+05	3.81E+05	2.64E+01	-		-		-		No	-	-
Dibromobenzene, 1,3-	108-36-1	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		3.41E+06	3.77E+06	2.64E+01	1.90E+00	YAWS	-		-		No	-	-
Dibromobenzene, 1,4-	106-37-6	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		7.30E+05	8.05E+05	2.64E+01	-		-		-		No	-	-
Dibromochloromethane	124-48-1	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		6.21E+07	9.05E+07	2.64E+01	-		-		-		No	-	-
Dibromodichloromethane	594-18-3	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		3.62E+07	2.37E+06	2.64E+01	-		-		-		No	-	-
Dibromodiphenyl Ether, p,p'-	2050-47-7	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.98E+03	1.38E+02	2.64E+01	-		-		-		No	-	-
Dibromoethane, 1,2-	106-93-4	Yes	Yes	Yes	Yes	4.68E-03	CA	1.56E-01	1.64E-01	No (0)	1.13E+08	1.11E+08	2.64E+01	-		6.00E-04	I	9.00E-03	I	No	4.68E-03	9.39E-01

Dibromomethane (Methylene Bromide)	74-95-3	Yes	Yes	Yes	Yes	4.17E-01	NC	1.39E+01	1.17E+01	--	4.15E+08	4.26E+08	2.64E+01	-		-		4.00E-03	X	No	-	4.17E-01
Dibutoxy di-n-butyltin	3349-36-8	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.03E+03	1.34E+07	2.64E+01	-		-		-		No	-	-
Dibutyl Phthalate	84-74-2	No	No	No (not volatile)	No (not volatile)	-		-	-		3.01E+02	1.03E+03	2.64E+01	5.00E-01	CRC	-		-		No	-	-
Dibutylbis((1-oxoisooctyl)oxy)stannane	85702-74-5	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Dibutylbis(octadeca-9(Z),12(Z),15(Z)-trienoyloxy)stannane	95873-60-2	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		9.41E-09	7.21E+01	2.64E+01	-		-		-		No	-	-
Dibutylbis(octadeca-9(Z),12(Z)-dienoyloxy)stannane	85391-79-3	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Dibutylbis(palmitoyloxy)stannane	13323-63-2	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.40E-06	4.74E+01	2.64E+01	-		-		-		No	-	-
Dibutyltin Compounds	NA	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Dibutyltin diacetate	1067-33-0	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		5.68E+04	1.37E+05	2.64E+01	-		-		-		No	-	-
Dibutyltin dichloride	683-18-1	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.29E+06	1.15E+07	2.64E+01	-		-		-		No	-	-
Dibutyltin oxide	818-08-6	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.25E+07	-	2.64E+01	-		-		-		No	-	-
Dicalcium phosphate	7757-93-9	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Dicamba	1918-00-9	No	No	No (not volatile)	No (not volatile)	-		-	-		1.49E+02	7.41E+02	2.64E+01	-		-		-		No	-	-
Dichloramine	3400-09-7	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Dichloro-2-butene, 1,4-	764-41-0	Yes	Yes	Yes	Yes	6.68E-04	CA	2.23E-02	1.75E-03	--	2.02E+07	2.21E+08	2.64E+01	-		4.20E-03	P	-		No	6.68E-04	-
Dichloro-2-butene, cis-1,4-	1476-11-5	Yes	Yes	Yes	Yes	6.68E-04	CA	2.23E-02	2.27E-02	--	2.75E+07	1.71E+07	2.64E+01	2.50E+00	YAWS	4.20E-03	P	-		No	6.68E-04	-
Dichloro-2-butene, trans-1,4-	110-57-6	Yes	Yes	Yes	Yes	6.68E-04	CA	2.23E-02	2.27E-02	--	2.31E+07	2.50E+07	2.64E+01	1.50E+00	YAWS	4.20E-03	P	-		No	6.68E-04	-
Dichloroacetic Acid	79-43-6	No	No	No (not volatile)	No (not volatile)	-		-	-		1.24E+06	3.83E+05	2.64E+01	-		-		-		No	-	-
Dichloroaniline, 2,4-	554-00-7	No	No	No (not volatile)	No (not volatile)	-		-	-		1.31E+05	4.00E+04	2.64E+01	-		-		-		No	-	-
Dichloroaniline, 3,4-	95-76-1	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		5.51E+04	6.24E+04	2.64E+01	2.80E+00	YAWS	-		-		No	-	-
Dichlorobenzene	25321-22-6	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		3.49E+07	6.28E+06	2.64E+01	-		-		-		No	-	-
Dichlorobenzene, 1,2-	95-50-1	Yes	Yes	Yes	Yes	2.09E+01	NC	6.95E+02	2.44E+02	Yes (600)	1.08E+07	1.33E+07	2.64E+01	2.20E+00	CRC	-		2.00E-01	H	No	-	2.09E+01
Dichlorobenzene, 1,3-	541-73-1	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.70E+07	1.46E+07	2.64E+01	1.80E+00	YAWS	-		-		No	-	-
Dichlorobenzene, 1,4-	106-46-7	Yes	Yes	Yes	Yes	2.55E-01	CA	8.51E+00	2.38E+00	Yes (75)	1.38E+07	8.72E+06	2.64E+01	1.80E+00	YAWS	1.10E-05	C	8.00E-01	I	No	2.55E-01	8.34E+01
Dichlorobenzidine, 3,3'-	91-94-1	No	Yes	No (not volatile)	No (not volatile)	8.26E-03		-	-		3.49E+00	3.60E-03	2.64E+01	-		3.40E-04	C	-		No	8.26E-03	-
Dichlorobenzophenone, 4,4'-	90-98-2	No	No	No (not volatile)	No (not volatile)	-		-	-		8.63E+01	4.15E+01	2.64E+01	-		-		-		No	-	-
Dichlorobenzotrifluoride, 3,4-	328-84-7	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.73E+07	1.98E+07	2.64E+01	-		-		-		No	-	-
Dichlorodifluoromethane	75-71-8	Yes	Yes	Yes	Yes	1.04E+01	NC	3.48E+02	7.24E-01	--	3.15E+10	4.03E+09	2.64E+01	-		-		1.00E-01	X	No	-	1.04E+01
Dichlorodiisopropyl ether, 2,2'-	39638-32-9	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.16E+08	8.45E+06	2.64E+01	-		-		-		No	-	-
Dichlorodiphenyldichloroethane, p,p'- (DDD)	72-54-8	No	Yes	No (not volatile)	No (not volatile)	4.07E-02		-	-		2.32E+01	2.43E+01	2.64E+01	-		6.90E-05	C	-		No	4.07E-02	-
Dichlorodiphenyldichloroethylene, p,p'- (DDE)	72-55-9	Yes	Yes	Yes	Yes	2.89E-02	CA	9.65E-01	1.46E+01	--	1.03E+02	7.91E+01	2.64E+01	-		9.70E-05	C	-		No	2.89E-02	-
Dichlorodiphenyltrichloroethane, p,p'- (DDT)	50-29-3	No	Yes	No (not volatile)	No (not volatile)	2.89E-02		-	-		3.05E+00	2.09E+00	2.64E+01	-		9.70E-05	I	-		No	2.89E-02	-
Dichloroethane, 1,1-	75-34-3	Yes	Yes	Yes	Yes	1.75E+00	CA	5.85E+01	7.24E+00	--	1.21E+09	1.22E+09	2.64E+01	5.40E+00	CRC	1.60E-06	C	-		No	1.75E+00	-
Dichloroethane, 1,2-	107-06-2	Yes	Yes	Yes	Yes	1.08E-01	CA	3.60E+00	2.11E+00	Yes (5)	4.20E+08	4.41E+08	2.64E+01	6.20E+00	CRC	2.60E-05	I	7.00E-03	P	No	1.08E-01	7.30E-01
Dichloroethylene, 1,1-	75-35-4	Yes	Yes	Yes	Yes	2.09E+01	NC	6.95E+02	1.87E+01	No (7)	3.13E+09	2.70E+09	2.64E+01	6.50E+00	CRC	-		2.00E-01	I	No	-	2.09E+01
Dichloroethylene, cis-1,2-	156-59-2	Yes	Yes	Yes	Yes	4.17E+00	NC	1.39E+02	2.37E+01	Yes (70)	1.04E+09	1.13E+09	2.64E+01	3.00E+00	CRC	-		4.00E-02	X	No	-	4.17E+00
Dichloroethylene, trans-1,2-	156-60-5	Yes	Yes	Yes	Yes	4.17E+00	NC	1.39E+02	1.03E+01	Yes (100)	1.73E+09	1.83E+09	2.64E+01	6.00E+00	CRC	-		4.00E-02	X	No	-	4.17E+00
Dichlorophenol, 2,3-	576-24-9	No	No	No (not volatile)	No (not volatile)	-		-	-		5.08E+05	4.53E+04	2.64E+01	-		-		-		No	-	-
Dichlorophenol, 2,4-	120-83-2	No	No	No (not volatile)	No (not volatile)	-		-	-		7.89E+05	1.07E+06	2.64E+01	-		-		-		No	-	-
Dichlorophenol, 2,5-	583-78-8	No	No	No (not volatile)	No (not volatile)	-		-	-		4.93E+05	2.52E+04	2.64E+01	-		-		-		No	-	-
Dichlorophenol, 2,6-	87-65-0	No	No	No (not volatile)	No (not volatile)	-		-	-		2.89E+05	2.07E+05	2.64E+01	-		-		-		No	-	-
Dichlorophenol, 3,4-	95-77-2	No	No	No (not volatile)	No (not volatile)	-		-	-		1.52E+05	1.17E+05	2.64E+01	-		-		-		No	-	-
Dichlorophenoxy Acetic Acid, 2,4-	94-75-7	No	No	No (not volatile)	No (not volatile)	-		-	-		9.81E+02	9.80E+02	2.64E+01	-		-		-		No	-	-
Dichloropropane, 1,2-	78-87-5	Yes	Yes	Yes	Yes	4.17E-01	NC	1.39E+01	3.40E+00	Yes (5)	3.24E+08	3.44E+08	2.64E+01	3.40E+00	YAWS	3.70E-06	P	4.00E-03	I	No	7.59E-01	4.17E-01
Dichloropropane, 1,3-	142-28-9	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.10E+08	1.18E+08	2.64E+01	3.40E+00	YAWS	-		-		No	-	-
Dichloropropane, 2,2-	594-20-7	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		8.20E+08	2.72E+08	2.64E+01	-		-		-		No	-	-
Dichloropropanol, 2,3-	616-23-9	No	No	No (not volatile)	No (not volatile)	-		-	-		1.28E+06	1.04E+04	2.64E+01	-		-		-		No	-	-
Dichloropropene, 1,1-	563-58-6	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		5.42E+08	1.61E+09	2.64E+01	-		-		-		No	-	-
Dichloropropene, 1,3-	542-75-6	Yes	Yes	Yes	Yes	7.02E-01	CA	2.34E+01	4.52E+00	--	2.03E+08	4.35E+08	2.64E+01	5.30E+00	N	4.00E-06	I	2.00E-02	I	No	7.02E-01	2.09E+00
Dichloropropene, 2,3-	78-88-6	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		3.65E+08	3.88E+08	2.64E+01	2.60E+00	CRC	-		-		No	-	-
Dichloropropene, cis-1,3-	10061-01-5	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.57E+08	2.59E+08	2.64E+01	-		-		-		No	-	-
Dichloropropene, trans-1,3-	10061-02-6	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.03E+08	1.08E+08	2.64E+01	-		-		-		No	-	-

Dichlorvos	62-73-7	No	Yes	No (not volatile)	No (not volatile)	3.38E-02		-	-		1.87E+05	1.88E+05	2.64E+01	-		8.30E-05	C	5.00E-04	I	No	3.38E-02	5.21E-02
Dicrotophos	141-66-2	No	No	No (not volatile)	No (not volatile)	-		-	-		2.04E+03	2.06E+03	2.64E+01	-		-		-		No	-	-
Dicyclohexylamine	101-83-7	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		3.30E+05	2.70E+05	2.64E+01	-		-		-		No	-	-
Dicyclopentadiene	77-73-6	Yes	Yes	Yes	Yes	3.13E-02	NC	1.04E+00	1.20E-02	--	1.63E+07	6.87E+07	2.64E+01	1.00E+00	YAWS	-		3.00E-04	X	No	-	3.13E-02
Dieldrin	60-57-1	No	Yes	No (not volatile)	No (not volatile)	6.10E-04		-	-		1.21E+02	9.46E+01	2.64E+01	-		4.60E-03	I	-		No	6.10E-04	-
Diepoxybutane	1464-53-5	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.81E+08	1.45E+06	2.64E+01	-		-		-		No	-	-
Diesel Engine Exhaust	NA	Indeterminate	Yes	No (not volatile)	No (not volatile)	9.36E-03		-	-		-	-	2.64E+01	-		3.00E-04	C	5.00E-03	I	No	9.36E-03	5.21E-01
Diethanolamine	111-42-2	No	Yes	No (not volatile)	No (not volatile)	2.09E-02		-	-		1.58E+03	1.87E+03	2.64E+01	2.00E+00	CRC	-		2.00E-04	P	No	-	2.09E-02
Diethyl Phthalate	84-66-2	No	No	No (not volatile)	No (not volatile)	-		-	-		2.51E+04	3.12E+04	2.64E+01	7.00E-01	CRC	-		-		No	-	-
Diethyl sulfate	64-67-5	No	No	No (not volatile)	No (not volatile)	-		-	-		1.76E+06	1.93E+06	2.64E+01	-		-		-		No	-	-
Diethyl-meta-Toluamide, N,N (DEET)	134-62-3	No	No	No (not volatile)	No (not volatile)	-		-	-		2.06E+04	0.00E+00	2.64E+01	-		-		-		No	-	-
Diethyl-p-nitrophenylphosphate	311-45-5	No	No	No (not volatile)	No (not volatile)	-		-	-		1.63E+01	1.62E+01	2.64E+01	-		-		-		No	-	-
Diethylene Glycol Dinitrate (DEGDN)	693-21-0	No	No	No (not volatile)	No (not volatile)	-		-	-		6.22E+04	6.22E+04	2.64E+01	-		-		-		No	-	-
Diethylene Glycol Monobutyl Ether	112-34-5	No	Yes	No (not volatile)	No (not volatile)	1.04E-02		-	-		1.91E+05	3.37E+05	2.64E+01	9.00E-01	YAWS	-		1.00E-04	P	No	-	1.04E-02
Diethylene Glycol Monoethyl Ether	111-90-0	No	Yes	No (not volatile)	No (not volatile)	3.13E-02		-	-		9.09E+05	1.02E+06	2.64E+01	1.20E+00	YAWS	-		3.00E-04	P	No	-	3.13E-02
Diethylene-glycol	111-46-6	No	No	No (not volatile)	No (not volatile)	-		-	-		3.25E+04	1.39E+04	2.64E+01	2.00E+00	CRC	-		-		No	-	-
Diethylformamide	617-84-5	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		6.58E+06	5.91E+06	2.64E+01	-		-		-		No	-	-
Diethylphosphorodithioate	298-06-6	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		5.84E+05	9.71E+02	2.64E+01	-		-		-		No	-	-
Diethylstilbestrol	56-53-1	No	Yes	No (not volatile)	No (not volatile)	2.81E-05		-	-		2.04E-01	2.85E-03	2.64E+01	-		1.00E-01	C	-		No	2.81E-05	-
Difenzoquat	43222-48-6	No	No	No (not volatile)	No (not volatile)	-		-	-		7.93E-05	-	2.64E+01	-		-		-		No	-	-
Diflubenzuron	35367-38-5	No	No	No (not volatile)	No (not volatile)	-		-	-		1.50E-02	1.50E-02	2.64E+01	-		-		-		No	-	-
Difluoroethane, 1,1-	75-37-6	Yes	Yes	Yes	Yes	4.17E+03	NC	1.39E+05	4.88E+03	--	1.62E+10	2.74E+09	2.64E+01	3.70E+00	YAWS	-		4.00E+01	I	No	-	4.17E+03
Difluoropropane, 2,2-	420-45-1	Yes	Yes	Yes	Yes	3.13E+03	NC	1.04E+05	1.44E+02	--	7.75E+09	3.47E+09	2.64E+01	-		-		3.00E+01	X	No	-	3.13E+03
Dihydrosafrole	94-58-6	Yes	Yes	Yes	Yes	2.16E-01	CA	7.20E+00	3.92E+02	--	4.95E+05	3.13E+04	2.64E+01	-		1.30E-05	C	-		No	2.16E-01	-
Diisopropyl Ether	108-20-3	Yes	Yes	Yes	Yes	7.30E+01	NC	2.43E+03	6.60E+02	--	8.19E+08	9.74E+08	2.64E+01	1.40E+00	CRC	-		7.00E-01	P	No	-	7.30E+01
Diisopropyl Methylphosphonate	1445-75-6	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.21E+06	2.92E+06	2.64E+01	-		-		-		No	-	-
Dimagnesium phosphate	7782-75-4	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Dimethipin	55290-64-7	No	No	No (not volatile)	No (not volatile)	-		-	-		4.33E+00	4.33E+00	2.64E+01	-		-		-		No	-	-
Dimethoate	60-51-5	No	No	No (not volatile)	No (not volatile)	-		-	-		2.31E+02	2.31E+02	2.64E+01	-		-		-		No	-	-
Dimethoxybenzidine, 3,3'-	119-90-4	No	Yes	No (not volatile)	No (not volatile)	2.01E-05		-	-		1.64E+00	1.15E-01	2.64E+01	-		1.40E-01	C	-		No	2.01E-05	-
Dimethyl Sulfate	77-78-1	No	No	No (not volatile)	No (not volatile)	-		-	-		4.59E+06	5.08E+06	2.64E+01	2.90E+00	YAWS	-		-		No	-	-
Dimethyl Sulfide	75-18-3	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.68E+09	1.52E+09	2.64E+01	2.20E+00	CRC	-		-		No	-	-
Dimethyl methylphosphonate	756-79-6	No	No	No (not volatile)	No (not volatile)	-		-	-		5.56E+06	6.06E+06	2.64E+01	-		-		-		No	-	-
Dimethylamino azobenzene [p-]	60-11-7	No	Yes	No (not volatile)	No (not volatile)	2.16E-03		-	-		8.48E-01	3.76E-03	2.64E+01	-		1.30E-03	C	-		No	2.16E-03	-
Dimethylaniline HCl, 2,4-	21436-96-4	No	No	No (not volatile)	No (not volatile)	-		-	-		1.16E+06	3.46E+05	2.64E+01	-		-		-		No	-	-
Dimethylaniline, 2,4-	95-68-1	No	No	No (not volatile)	No (not volatile)	-		-	-		8.67E+05	6.86E+05	2.64E+01	-		-		-		No	-	-
Dimethylaniline, N,N-	121-69-7	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		4.56E+06	3.78E+06	2.64E+01	1.20E+00	YAWS	-		-		No	-	-
Dimethylbenz(a)anthracene, 7,12-	57-97-6	No	Yes	No (not volatile)	No (not volatile)	1.43E-05		-	-		9.38E+00	9.38E+00	2.64E+01	-		7.10E-02	C	-		Mut	1.43E-05	-
Dimethylbenzidine, 3,3'-	119-93-7	No	No	No (not volatile)	No (not volatile)	-		-	-		7.90E+00	3.69E+00	2.64E+01	-		-		-		No	-	-
Dimethylcyclohexylamine, n,n-	98-94-2	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.72E+07	1.09E+07	2.64E+01	-		-		-		No	-	-
Dimethylethyl Lead	107584-40-7	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Dimethylformamide	68-12-2	Yes	Yes	Yes	Yes	3.13E+00	NC	1.04E+02	9.35E+05	--	1.52E+07	3.34E+06	2.64E+01	2.20E+00	CRC	-		3.00E-02	I	No	-	3.13E+00
Dimethylhydrazine, 1,1-	57-14-7	Yes	Yes	Yes	Yes	2.09E-04	NC	6.95E-03	3.72E-01	--	5.27E+08	5.61E+08	2.64E+01	2.00E+00	CRC	-		2.00E-06	X	No	-	2.09E-04
Dimethylhydrazine, 1,2-	540-73-8	Yes	Yes	Yes	Yes	1.75E-05	CA	5.85E-04	5.83E+00	--	2.26E+08	3.01E+06	2.64E+01	-		1.60E-01	C	-		No	1.75E-05	-
Dimethylmercury	593-74-8	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		7.73E+08	7.71E+08	2.64E+01	-		-		-		No	-	-
Dimethylphenethylamine	122-09-8	No	No	No (not volatile)	No (not volatile)	-		-	-		7.71E+05	1.09E+06	2.64E+01	-		-		-		No	-	-
Dimethylphenol, 2,4-	105-67-9	No	No	No (not volatile)	No (not volatile)	-		-	-		6.70E+05	3.42E+05	2.64E+01	1.10E+00	YAWS	-		-		No	-	-
Dimethylphenol, 2,6-	576-26-1	No	No	No (not volatile)	No (not volatile)	-		-	-		1.12E+06	1.82E+06	2.64E+01	1.40E+00	YAWS	-		-		No	-	-
Dimethylphenol, 3,4-	95-65-8	No	No	No (not volatile)	No (not volatile)	-		-	-		2.34E+05	9.13E+04	2.64E+01	1.10E+00	YAWS	-		-		No	-	-

Dimethylphthalate	131-11-3	No	No	No (not volatile)	No (not volatile)	-		-	-		3.22E+04	3.70E+04	2.64E+01	9.00E-01	CRC	-		-		No	-	-
Dimethylterephthalate	120-61-6	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.04E+05	1.19E+05	2.64E+01	1.00E+00	YAWS	-		-		No	-	-
Dimethylvinylchloride	513-37-1	Yes	Yes	Yes	Yes	2.16E-01	CA	7.20E+00	4.23E+00	--	1.03E+09	5.11E+07	2.64E+01	-		1.30E-05	C	-		No	2.16E-01	-
Dinitro-o-cresol, 4,6-	534-52-1	No	No	No (not volatile)	No (not volatile)	-		-	-		1.28E+03	1.13E+04	2.64E+01	-		-		-		No	-	-
Dinitro-o-cyclohexyl Phenol, 4,6-	131-89-5	No	No	No (not volatile)	No (not volatile)	-		-	-		6.00E-01	3.40E+01	2.64E+01	-		-		-		No	-	-
Dinitroaniline, 3,5-	618-87-1	No	Yes	No (not volatile)	No (not volatile)	2.09E-01		-	-		2.64E+02	1.56E+00	2.64E+01	-		-		2.00E-03	X	No	-	2.09E-01
Dinitrobenzene, 1,2-	528-29-0	No	No	No (not volatile)	No (not volatile)	-		-	-		4.11E+02	3.41E+02	2.64E+01	1.80E+00	YAWS	-		-		No	-	-
Dinitrobenzene, 1,3-	99-65-0	No	No	No (not volatile)	No (not volatile)	-		-	-		8.14E+03	1.24E+03	2.64E+01	-		-		-		No	-	-
Dinitrobenzene, 1,4-	100-25-4	No	No	No (not volatile)	No (not volatile)	-		-	-		2.36E+02	2.76E+02	2.64E+01	1.80E+00	YAWS	-		-		No	-	-
Dinitrophenol, 2,4-	51-28-5	No	No	No (not volatile)	No (not volatile)	-		-	-		3.86E+03	9.81E+03	2.64E+01	-		-		-		No	-	-
Dinitrophenols	25550-58-7	No	No	No (not volatile)	No (not volatile)	-		-	-		2.18E+03	6.32E+00	2.64E+01	-		-		-		No	-	-
Dinitrosopentamethylenetetramine, N,N-	101-25-7	No	No	No (not volatile)	No (not volatile)	-		-	-		5.03E+01	1.15E+00	2.64E+01	-		-		-		No	-	-
Dinitrotoluene Mixture, 2,4/2,6-	NA	No	No	No (not volatile)	No (not volatile)	-		-	-		2.11E+04	4.38E+03	2.64E+01	-		-		-		No	-	-
Dinitrotoluene, 2,3-	602-01-7	No	No	No (not volatile)	No (not volatile)	-		-	-		3.89E+03	1.02E+03	2.64E+01	-		-		-		No	-	-
Dinitrotoluene, 2,4-	121-14-2	No	Yes	No (not volatile)	No (not volatile)	3.15E-02		-	-		1.44E+03	5.23E+02	2.64E+01	1.50E+00	YAWS	8.90E-05	C	-		No	3.15E-02	-
Dinitrotoluene, 2,5-	619-15-8	No	No	No (not volatile)	No (not volatile)	-		-	-		3.89E+03	9.72E+02	2.64E+01	1.50E+00	YAWS	-		-		No	-	-
Dinitrotoluene, 2,6-	606-20-2	No	No	No (not volatile)	No (not volatile)	-		-	-		5.55E+03	6.52E+03	2.64E+01	1.50E+00	YAWS	-		-		No	-	-
Dinitrotoluene, 2-Amino-4,6-	35572-78-2	No	No	No (not volatile)	No (not volatile)	-		-	-		1.13E+02	1.63E+00	2.64E+01	-		-		-		No	-	-
Dinitrotoluene, 3,4-	610-39-9	No	No	No (not volatile)	No (not volatile)	-		-	-		3.89E+03	7.91E+02	2.64E+01	1.50E+00	YAWS	-		-		No	-	-
Dinitrotoluene, 3,5-	618-85-9	No	No	No (not volatile)	No (not volatile)	-		-	-		3.97E+03	6.41E+02	2.64E+01	1.50E+00	YAWS	-		-		No	-	-
Dinitrotoluene, 4-Amino-2,6-	19406-51-0	No	No	No (not volatile)	No (not volatile)	-		-	-		1.13E+02	1.63E+00	2.64E+01	-		-		-		No	-	-
Dinitrotoluene, Technical grade	25321-14-6	No	No	No (not volatile)	No (not volatile)	-		-	-		1.17E+04	1.02E+03	2.64E+01	-		-		-		No	-	-
Dinoseb	88-85-7	No	No	No (not volatile)	No (not volatile)	-		-	-		9.69E+02	9.69E+02	2.64E+01	-		-		-		No	-	-
Dioxane, 1,4-	123-91-1	Yes	Yes	Yes	Yes	5.62E-01	CA	1.87E+01	2.68E+03	--	1.80E+08	2.10E+08	2.64E+01	2.00E+00	CRC	5.00E-06	I	3.00E-02	I	No	5.62E-01	3.13E+00
Diphenamid	957-51-7	No	No	No (not volatile)	No (not volatile)	-		-	-		3.86E-01	3.86E-01	2.64E+01	-		-		-		No	-	-
Diphenyl Ether	101-84-8	Yes	Yes	Yes	Yes	4.17E-02	NC	1.39E+00	3.26E+00	--	2.06E+05	2.30E+05	2.64E+01	8.00E-01	CRC	-		4.00E-04	X	No	-	4.17E-02
Diphenyl Sulfone	127-63-9	No	No	No (not volatile)	No (not volatile)	-		-	-		1.80E+02	3.66E+03	2.64E+01	-		-		-		No	-	-
Diphenylamine	122-39-4	No	No	No (not volatile)	No (not volatile)	-		-	-		6.10E+03	6.69E+03	2.64E+01	7.00E-01	YAWS	-		-		No	-	-
Diphenylhydrazine, 1,2-	122-66-7	No	Yes	No (not volatile)	No (not volatile)	1.28E-02		-	-		4.32E+03	4.93E+03	2.64E+01	7.00E-01	YAWS	2.20E-04	I	-		No	1.28E-02	-
Dipotassium phosphate	7758-11-4	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Diquat	2764-72-9	No	No	No (not volatile)	No (not volatile)	-		-	-		9.91E-02	4.07E+02	2.64E+01	-		-		-		No	-	-
Direct Black 38	1937-37-7	No	Yes	No (not volatile)	No (not volatile)	1.34E-03		-	-		6.42E-29	1.01E-28	2.64E+01	-		2.10E-03	C	-		No	1.34E-03	-
Direct Blue 6	2602-46-2	No	Yes	No (not volatile)	No (not volatile)	1.34E-03		-	-		4.79E-31	5.09E-40	2.64E+01	-		2.10E-03	C	-		No	1.34E-03	-
Direct Brown 95	16071-86-6	No	Yes	No (not volatile)	No (not volatile)	1.48E-03		-	-		5.85E-34	-	2.64E+01	-		1.90E-03	C	-		No	1.48E-03	-
Direct Sky Blue	2610-05-1	No	No	No (not volatile)	No (not volatile)	-		-	-		3.00E-34	1.40E-31	2.64E+01	-		-		-		No	-	-
Disodium phosphate	7558-79-4	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Disulfoton	298-04-4	No	No	No (not volatile)	No (not volatile)	-		-	-		1.44E+03	1.44E+03	2.64E+01	-		-		-		No	-	-
Dithiane, 1,4-	505-29-3	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		5.14E+05	5.68E+06	2.64E+01	-		-		-		No	-	-
Diundecyl Phthalate	3648-20-2	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		3.11E-02	2.54E+03	2.64E+01	-		-		-		No	-	-
Diuron	330-54-1	No	No	No (not volatile)	No (not volatile)	-		-	-		8.65E-01	8.65E-01	2.64E+01	-		-		-		No	-	-
Dodine	2439-10-3	No	No	No (not volatile)	No (not volatile)	-		-	-		2.32E+00	2.32E+00	2.64E+01	-		-		-		No	-	-
EPTC	759-94-4	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.44E+05	2.44E+05	2.64E+01	-		-		-		No	-	-
Endosulfan	115-29-7	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		3.79E+00	8.64E+02	2.64E+01	-		-		-		No	-	-
Endosulfan I	959-98-8	No	No	No (not volatile)	No (not volatile)	-		-	-		6.57E+01	1.48E+02	2.64E+01	-		-		-		No	-	-
Endosulfan II	33213-65-9	No	No	No (not volatile)	No (not volatile)	-		-	-		1.31E+01	7.19E+00	2.64E+01	-		-		-		No	-	-
Endosulfan Sulfate	1031-07-8	No	No	No (not volatile)	No (not volatile)	-		-	-		6.37E+00	6.38E+00	2.64E+01	-		-		-		No	-	-

Endothall	145-73-3	No	No	No (not volatile)	No (not volatile)	-		-	-		1.57E-03	1.57E-03	2.64E+01	-		-		-		No	-	-
Endrin	72-20-8	No	No	No (not volatile)	No (not volatile)	-		-	-		6.15E+01	6.50E+01	2.64E+01	-		-		-		No	-	-
Endrin aldehyde	7421-93-4	No	No	No (not volatile)	No (not volatile)	-		-	-		4.10E+00	4.10E+00	2.64E+01	-		-		-		No	-	-
Endrin ketone	53494-70-5	No	No	No (not volatile)	No (not volatile)	-		-	-		1.13E+02	1.83E-01	2.64E+01	-		-		-		No	-	-
Epichlorohydrin	106-89-8	Yes	Yes	Yes	Yes	1.04E-01	NC	3.48E+00	8.43E+01	--	8.18E+07	8.15E+07	2.64E+01	3.80E+00	YAWS	1.20E-06	I	1.00E-03	I	No	2.34E+00	1.04E-01
Epoxybutane, 1,2-	106-88-7	Yes	Yes	Yes	Yes	2.09E+00	NC	6.95E+01	2.68E+02	--	6.98E+08	7.40E+08	2.64E+01	1.70E+00	CRC	-		2.00E-02	I	No	-	2.09E+00
Ethanol	64-17-5	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.47E+08	2.21E+08	2.64E+01	3.30E+00	CRC	-		-		No	-	-
Ethanol, 2-(2-methoxyethoxy)-	111-77-3	No	No	No (not volatile)	No (not volatile)	-		-	-		1.62E+06	7.51E+02	2.64E+01	1.38E+00	CRC	-		-		No	-	-
Ethephon	16672-87-0	No	No	No (not volatile)	No (not volatile)	-		-	-		7.62E-01	2.33E+02	2.64E+01	-		-		-		No	-	-
Ethion	563-12-2	No	No	No (not volatile)	No (not volatile)	-		-	-		3.10E+01	3.10E+01	2.64E+01	-		-		-		No	-	-
Ethoxy Propanol	52125-53-8	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.36E+07	1.20E+06	2.64E+01	-		-		-		No	-	-
Ethoxyethanol Acetate, 2-	111-15-9	Yes	Yes	Yes	Yes	6.26E+00	NC	2.09E+02	4.36E+04	--	1.42E+07	2.68E+07	2.64E+01	2.00E+00	CRC	-		6.00E-02	P	No	-	6.26E+00
Ethoxyethanol, 2-	110-80-5	Yes	Yes	Yes	Yes	4.17E+00	NC	1.39E+02	1.99E+05	--	2.57E+07	2.10E+07	2.64E+01	3.00E+00	CRC	-		4.00E-02	P	No	-	4.17E+00
Ethyl Acetate	141-78-6	Yes	Yes	Yes	Yes	7.30E+00	NC	2.43E+02	1.25E+03	--	4.42E+08	4.66E+08	2.64E+01	2.00E+00	CRC	-		7.00E-02	P	No	-	7.30E+00
Ethyl Acrylate	140-88-5	Yes	Yes	Yes	Yes	8.34E-01	NC	2.78E+01	5.61E+01	--	2.08E+08	2.23E+08	2.64E+01	1.40E+00	CRC	-		8.00E-03	P	No	-	8.34E-01
Ethyl Chloride	75-00-3	Yes	Yes	Yes	Yes	4.17E+02	NC	1.39E+04	8.83E+02	--	3.50E+09	3.17E+09	2.64E+01	3.80E+00	CRC	-		4.00E+00	P	No	-	4.17E+02
Ethyl Ether	60-29-7	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.14E+09	3.18E+09	2.64E+01	1.90E+00	CRC	-		-		No	-	-
Ethyl Methacrylate	97-63-2	Yes	Yes	Yes	Yes	3.13E+01	NC	1.04E+03	1.21E+03	--	1.26E+08	1.39E+08	2.64E+01	1.80E+00	YAWS	-		3.00E-01	P	No	-	3.13E+01
Ethyl Tertiary Butyl Ether (ETBE)	637-92-3	Yes	Yes	Yes	Yes	3.51E+01	CA	1.17E+03	4.95E+02	--	6.81E+08	8.51E+08	2.64E+01	1.20E+00	YAWS	8.00E-08	I	4.00E+01	I	No	3.51E+01	4.17E+03
Ethyl methane sulfonate	62-50-0	No	No	No (not volatile)	No (not volatile)	-		-	-		1.38E+06	1.42E+06	2.64E+01	-		-		-		No	-	-
Ethyl-p-nitrophenyl Phosphonate	2104-64-5	No	No	No (not volatile)	No (not volatile)	-		-	-		1.65E+01	5.65E+01	2.64E+01	-		-		-		No	-	-
Ethylbenzene	100-41-4	Yes	Yes	Yes	Yes	1.12E+00	CA	3.74E+01	3.24E+00	Yes (700)	5.48E+07	5.86E+07	2.64E+01	8.00E-01	CRC	2.50E-06	C	1.00E+00	I	No	1.12E+00	1.04E+02
Ethylene Cyanohydrin	109-78-4	No	No	No (not volatile)	No (not volatile)	-		-	-		3.07E+05	3.50E+05	2.64E+01	2.30E+00	YAWS	-		-		No	-	-
Ethylene Diamine	107-15-3	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		3.88E+07	7.64E+04	2.64E+01	2.50E+00	CRC	-		-		No	-	-
Ethylene Glycol	107-21-1	No	Yes	No (not volatile)	No (not volatile)	4.17E+01		-	-		3.07E+05	2.74E+06	2.64E+01	3.20E+00	CRC	-		4.00E-01	C	No	-	4.17E+01
Ethylene Glycol Monobutyl Ether	111-76-2	No	Yes	No (not volatile)	No (not volatile)	1.67E+02		-	-		5.59E+06	7.26E+07	2.64E+01	4.00E+00	CRC	-		1.60E+00	I	No	-	1.67E+02
Ethylene Oxide	75-21-8	Yes	Yes	Yes	Yes	3.38E-04	CA	1.13E-02	5.35E-02	--	3.11E+09	6.31E+09	2.64E+01	3.00E+00	CRC	3.00E-03	I	3.00E-02	C	Mut	3.38E-04	3.13E+00
Ethylene Thiourea	96-45-7	No	Yes	No (not volatile)	No (not volatile)	2.16E-01		-	-		1.11E+01	1.11E+01	2.64E+01	-		1.30E-05	C	-		No	2.16E-01	-
Ethyleneimine	151-56-4	Yes	Yes	Yes	Yes	1.48E-04	CA	4.93E-03	2.82E-01	--	4.93E+08	5.24E+08	2.64E+01	3.30E+00	CRC	1.90E-02	C	-		No	1.48E-04	-
Ethylhexyl acrylate, 2-	103-11-7	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.76E+06	1.98E+06	2.64E+01	-		-		-		No	-	-
Ethylphenol, 4-	123-07-9	No	No	No (not volatile)	No (not volatile)	-		-	-		2.44E+05	1.74E+05	2.64E+01	-		-		-		No	-	-
Ethylphthalyl Ethyl Glycolate	84-72-0	No	No	No (not volatile)	No (not volatile)	-		-	-		3.26E+03	5.89E+01	2.64E+01	-		-		-		No	-	-
Famphur	52-85-7	No	No	No (not volatile)	No (not volatile)	-		-	-		2.38E+01	7.14E+01	2.64E+01	-		-		-		No	-	-
Fenamiphos	22224-92-6	No	No	No (not volatile)	No (not volatile)	-		-	-		1.63E+01	1.63E+01	2.64E+01	-		-		-		No	-	-
Fenpropathrin	39515-41-8	No	No	No (not volatile)	No (not volatile)	-		-	-		1.03E+02	1.03E+02	2.64E+01	-		-		-		No	-	-
Fenvalerate	51630-58-1	No	No	No (not volatile)	No (not volatile)	-		-	-		3.39E-02	3.39E-02	2.64E+01	-		-		-		No	-	-
Fluometuron	2164-17-2	No	No	No (not volatile)	No (not volatile)	-		-	-		1.17E+01	1.17E+01	2.64E+01	-		-		-		No	-	-
Fluoranthene	206-44-0	No	No	No (not volatile)	No (not volatile)	-		-	-		1.00E+02	1.10E+02	2.64E+01	6.00E-01	YAWS	-		-		No	-	-
Fluorene	86-73-7	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		5.36E+03	7.56E+03	2.64E+01	7.00E-01	YAWS	-		-		No	-	-
Fluoride	16984-48-8	Indeterminate	Yes	No (not volatile)	No (not volatile)	1.36E+00		-	-		-	-	2.64E+01	-		-		1.30E-02	C	No	-	1.36E+00
Fluorine (Soluble Fluoride)	7782-41-4	Indeterminate	Yes	No (not volatile)	No (not volatile)	1.36E+00		-	-		-	-	2.64E+01	-		-		1.30E-02	C	No	-	1.36E+00
Fluorobenzene	462-06-6	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		3.99E+08	4.18E+08	2.64E+01	-		-		-		No	-	-
Fluorobiphenyl, 2-	321-60-8	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		9.54E+04	2.74E+05	2.64E+01	-		-		-		No	-	-
Fluorophenol, 2-	367-12-4	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		7.17E+06	1.86E+06	2.64E+01	-		-		-		No	-	-
Fluridone	59756-60-4	No	No	No (not volatile)	No (not volatile)	-		-	-		1.73E+00	3.97E+00	2.64E+01	-		-		-		No	-	-
Flurprimidol	56425-91-3	No	No	No (not volatile)	No (not volatile)	-		-	-		6.11E+00	6.81E+00	2.64E+01	-		-		-		No	-	-
Flusilazole	85509-19-9	No	No	No (not volatile)	No (not volatile)	-		-	-		4.97E+00	4.97E+00	2.64E+01	-		-		-		No	-	-
Flutolanil	66332-96-5	No	No	No (not volatile)	No (not volatile)	-		-	-		8.49E-01	8.49E-01	2.64E+01	-		-		-		No	-	-
Fluvalinate	69409-94-5	No	No	No (not volatile)	No (not volatile)	-		-	-		2.70E+00	2.96E-03	2.64E+01	-		-		-		No	-	-
Folpet	133-07-3	No	No	No (not volatile)	No (not volatile)	-		-	-		2.50E+00	2.51E+00	2.64E+01	-		-		-		No	-	-
Fomesafen	72178-02-0	No	No	No (not volatile)	No (not volatile)	-		-	-		1.77E+01	1.54E-03	2.64E+01	-		-		-		No	-	-

Fonofos	944-22-9	No	No	No (not volatile)	No (not volatile)	-		-	-		4.48E+03	4.48E+03	2.64E+01	-		-		-		No	-	-
Formaldehyde	50-00-0	Yes	Yes	Yes	Yes	2.16E-01	CA	7.20E+00	1.51E+04	--	6.28E+09	5.72E+06	2.64E+01	7.00E+00	CRC	1.30E-05	I	9.83E-03	A	No	2.16E-01	1.02E+00
Formic Acid	64-18-6	Yes	Yes	Yes	Yes	3.13E-02	NC	1.04E+00	4.39E+03	--	1.05E+08	7.13E+06	2.64E+01	1.80E+01	CRC	-		3.00E-04	X	No	-	3.13E-02
Fosetyl-AL	39148-24-8	No	No	No (not volatile)	No (not volatile)	-		-	-		1.43E-03	1.43E-01	2.64E+01	-		-		-		No	-	-
Fuel Oil Number 2	68476-30-2	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Furan	110-00-9	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.20E+09	2.31E+09	2.64E+01	2.30E+00	CRC	-		-		No	-	-
Furazolidone	67-45-8	No	No	No (not volatile)	No (not volatile)	-		-	-		3.15E+01	5.33E-02	2.64E+01	-		-		-		No	-	-
Furfural	98-01-1	Yes	Yes	Yes	Yes	5.21E+00	NC	1.74E+02	3.09E+04	--	1.14E+07	1.25E+07	2.64E+01	2.10E+00	CRC	-		5.00E-02	H	No	-	5.21E+00
Furium	531-82-8	No	Yes	No (not volatile)	No (not volatile)	6.53E-03		-	-		1.20E-01	2.29E-04	2.64E+01	-		4.30E-04	C	-		No	6.53E-03	-
Furmecyclox	60568-05-0	No	Yes	No (not volatile)	No (not volatile)	3.26E-01		-	-		1.13E+03	8.45E-02	2.64E+01	-		8.60E-06	C	-		No	3.26E-01	-
Gadolinium	7440-54-2	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Gallium	7440-55-3	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Germanium	7440-56-4	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Glufosinate, Ammonium	77182-82-2	No	No	No (not volatile)	No (not volatile)	-		-	-		9.72E-05	2.48E+00	2.64E+01	-		-		-		No	-	-
Glutaraldehyde	111-30-8	No	Yes	No (not volatile)	No (not volatile)	8.34E-03		-	-		3.23E+06	3.31E+05	2.64E+01	-		-		8.00E-05	C	No	-	8.34E-03
Glycerol	56-81-5	No	No	No (not volatile)	No (not volatile)	-		-	-		8.32E+02	8.16E+05	2.64E+01	3.00E+00	CRC	-		-		No	-	-
Glycidaldehyde	765-34-4	Yes	Yes	Yes	Yes	1.04E-01	NC	3.48E+00	4.67E+03	--	1.76E+08	2.23E+07	2.64E+01	-		-		1.00E-03	X	No	-	1.04E-01
Glyphosate	1071-83-6	No	No	No (not volatile)	No (not volatile)	-		-	-		8.91E-01	9.01E-01	2.64E+01	-		-		-		No	-	-
Guanidine	113-00-8	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		7.02E+06	1.76E+00	2.64E+01	-		-		-		No	-	-
Guanidine Chloride	50-01-1	No	No	No (not volatile)	No (not volatile)	-		-	-		9.04E+00	8.87E-05	2.64E+01	-		-		-		No	-	-
Guanidine Nitrate	506-93-4	No	No	No (not volatile)	No (not volatile)	-		-	-		8.21E-01	3.66E-05	2.64E+01	-		-		-		No	-	-
Haloacetic acids	NA	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Haloxyfop, Methyl	69806-40-2	No	No	No (not volatile)	No (not volatile)	-		-	-		1.21E+02	1.21E+02	2.64E+01	-		-		-		No	-	-
Heptachlor	76-44-8	Yes	Yes	Yes	Yes	2.16E-03	CA	7.20E-02	1.58E-01	Yes (0)	8.03E+03	2.46E+03	2.64E+01	-		1.30E-03	I	-		No	2.16E-03	-
Heptachlor Epoxide	1024-57-3	Yes	Yes	Yes	Yes	1.08E-03	CA	3.60E-02	1.07E+00	No (0)	4.08E+02	2.02E+02	2.64E+01	-		2.60E-03	I	-		No	1.08E-03	-
Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	39635-31-9	Yes	Yes	Yes	Yes	2.46E-03	CA	8.21E-02	1.19E+00	--	2.76E+00	1.56E+00	2.64E+01	-		1.14E-03	W	1.33E-03	W	No	2.46E-03	1.39E-01
Heptachlorodibenzofuran, 1,2,3,4,6,7,8-	67562-39-4	Yes	Yes	Yes	Yes	7.39E-06	CA	2.46E-04	1.28E-02	--	7.77E-04	7.78E-04	2.64E+01	-		3.80E-01	W	4.00E-06	W	No	7.39E-06	4.17E-04
Heptanal, n-	111-71-7	Yes	Yes	Yes	Yes	3.13E-01	NC	1.04E+01	2.60E+01	--	2.16E+07	1.50E+07	2.64E+01	-		-		3.00E-03	X	No	-	3.13E-01
Heptane, N-	142-82-5	Yes	Yes	Yes	Yes	4.17E+01	NC	1.39E+03	4.78E-01	--	2.48E+08	2.97E+08	2.64E+01	1.05E+00	CRC	-		4.00E-01	P	No	-	4.17E+01
Heptanol, n-	111-70-6	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.35E+06	1.43E+06	2.64E+01	-		-		-		No	-	-
Hexabromobenzene	87-82-1	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		4.83E-01	1.84E-01	2.64E+01	-		-		-		No	-	-
Hexabromodiphenyl ether, 2,2',4,4',5,5'- (BDE-153)	68631-49-2	No	No	No (not volatile)	No (not volatile)	-		-	-		2.01E+02	-	2.64E+01	-		-		-		No	-	-
Hexachlorobenzene	118-74-1	Yes	Yes	Yes	Yes	6.10E-03	CA	2.03E-01	7.74E-02	Yes (1)	2.76E+02	4.89E+02	2.64E+01	3.50E+00	YAWS	4.60E-04	I	-		No	6.10E-03	-
Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	52663-72-6	Yes	Yes	Yes	Yes	2.46E-03	CA	8.21E-02	8.79E-01	--	1.13E+01	6.23E+00	2.64E+01	-		1.14E-03	W	1.33E-03	W	No	2.46E-03	1.39E-01
Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	69782-90-7	Yes	Yes	Yes	Yes	2.46E-03	CA	8.21E-02	3.72E-01	--	1.13E+01	1.09E+01	2.64E+01	-		1.14E-03	W	1.33E-03	W	No	2.46E-03	1.39E-01
Hexachlorobiphenyl, 2,3,3',4,4',5- (PCB 156)	38380-08-4	Yes	Yes	Yes	Yes	2.46E-03	CA	8.21E-02	3.65E-01	--	3.12E+01	3.59E+01	2.64E+01	-		1.14E-03	W	1.33E-03	W	No	2.46E-03	1.39E-01
Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	32774-16-6	Yes	Yes	Yes	Yes	2.46E-06	CA	8.21E-05	7.63E-04	--	1.13E+01	1.65E+00	2.64E+01	-		1.14E+00	W	1.33E-06	W	No	2.46E-06	1.39E-04
Hexachlorobutadiene	87-68-3	Yes	Yes	Yes	Yes	1.28E-01	CA	4.25E+00	2.76E-01	--	3.09E+06	1.48E+06	2.64E+01	2.90E+00	YAWS	2.20E-05	I	-		No	1.28E-01	-
Hexachlorocyclohexane, Alpha-	319-84-6	No	Yes	No (not volatile)	No (not volatile)	1.56E-03		-	-		5.51E+02	5.48E+02	2.64E+01	-		1.80E-03	I	-		No	1.56E-03	-
Hexachlorocyclohexane, Beta-	319-85-7	No	Yes	No (not volatile)	No (not volatile)	5.30E-03		-	-		5.63E+00	4.32E+00	2.64E+01	-		5.30E-04	I	-		No	5.30E-03	-
Hexachlorocyclohexane, Delta-	319-86-8	No	No	No (not volatile)	No (not volatile)	-		-	-		5.51E+02	6.60E+03	2.64E+01	-		-		-		No	-	-
Hexachlorocyclohexane, Epsilon	6108-10-7	No	No	No (not volatile)	No (not volatile)	-		-	-		5.51E+02	1.68E+03	2.64E+01	-		-		-		No	-	-
Hexachlorocyclohexane, Gamma- (Lindane)	58-89-9	No	Yes	No (not volatile)	No (not volatile)	9.06E-03		-	-		6.57E+02	1.53E+03	2.64E+01	-		3.10E-04	C	-		No	9.06E-03	-
Hexachlorocyclohexane, Technical	608-73-1	No	Yes	No (not volatile)	No (not volatile)	5.51E-03		-	-		5.51E+02	1.68E+03	2.64E+01	-		5.10E-04	I	-		No	5.51E-03	-
Hexachlorocyclopentadiene	77-47-4	Yes	Yes	Yes	Yes	2.09E-02	NC	6.95E-01	1.22E-02	Yes (50)	8.80E+05	3.07E+06	2.64E+01	-		-		2.00E-04	I	No	-	2.09E-02
Hexachlorodibenzo-p-dioxin, 1,2,3,4,7,8-	39227-28-6	No	Yes	No (not volatile)	No (not volatile)	7.39E-07		-	-		8.05E-04	7.11E-04	2.64E+01	-		3.80E+00	W	4.00E-07	W	No	7.39E-07	4.17E-05
Hexachlorodibenzo-p-dioxin, Mixture	34465-46-8	No	Yes	No (not volatile)	No (not volatile)	2.16E-06		-	-		9.25E-04	9.32E-04	2.64E+01	-		1.30E+00	I	-		No	2.16E-06	-
Hexachlorodibenzofuran, 1,2,3,4,7,8-	70648-26-9	Yes	Yes	Yes	Yes	7.39E-07	CA	2.46E-05	4.66E-04	--	2.26E+00	4.73E-03	2.64E+01	-		3.80E+00	W	4.00E-07	W	No	7.39E-07	4.17E-05
Hexachloroethane	67-72-1	Yes	Yes	Yes	Yes	2.55E-01	CA	8.51E+00	1.60E+00	--	2.67E+06	7.95E+06	2.64E+01	-		1.10E-05	C	3.00E-02	I	No	2.55E-01	3.13E+00
Hexachlorophene	70-30-4	No	No	No (not volatile)	No (not volatile)	-		-	-		2.25E-03	3.14E-03	2.64E+01	-		-		-		No	-	-
Hexachloropropene	1888-71-7	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		3.26E+06	3.27E+06	2.64E+01	-		-		-		No	-	-
Hexadecanoic Acid	57-10-3	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		5.24E+00	3.96E+01	2.64E+01	5.00E-01	YAWS	-		-		No	-	-
Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		4.07E+07	7.73E+09	2.64E+01	-		-		-		No	-	-
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	No	No	No (not volatile)	No (not volatile)	-		-	-		4.90E-02	4.91E-02	2.64E+01	-		-		-		No	-	-
Hexamethylene Diisocyanate, 1,6-	822-06-0	Yes	Yes	Yes	Yes	1.04E-03	NC	3.48E-02	4.85E-01	--	2.71E+05	2.51E+05	2.64E+01	-		-		1.00E-05	I	No	-	1.04E-03

Hexamethylene diisocyanate biuret	4035-89-6	No	Yes	No (not volatile)	No (not volatile)	4.17E-02		-	-		6.49E-08	8.41E-15	2.64E+01	-		-		4.00E-04	C	No	-	4.17E-02
Hexamethylene diisocyanate isocyanurate	3779-63-3	No	Yes	No (not volatile)	No (not volatile)	4.17E-02		-	-		2.65E-09	2.65E-16	2.64E+01	-		-		4.00E-04	C	No	-	4.17E-02
Hexamethylphosphoramide	680-31-9	No	No	No (not volatile)	No (not volatile)	-		-	-		4.43E+05	8.18E+05	2.64E+01	-		-		-		No	-	-
Hexane, Commercial	NA	Yes	Yes	Yes	Yes	1.40E+01	CA	4.68E+02	1.81E-01	--	7.01E+08	7.39E+08	2.64E+01	1.10E+00	CRC	2.00E-07	X	6.00E-01	P	No	1.40E+01	6.26E+01
Hexane, N-	110-54-3	Yes	Yes	Yes	Yes	7.30E+01	NC	2.43E+03	9.39E-01	--	7.01E+08	7.39E+08	2.64E+01	1.10E+00	CRC	-		7.00E-01	I	No	-	7.30E+01
Hexanedioic Acid	124-04-9	No	No	No (not volatile)	No (not volatile)	-		-	-		2.50E+00	7.18E+00	2.64E+01	1.60E+00	YAWS	-		-		No	-	-
Hexanol, 1-,2-ethyl- (2-Ethyl-1-hexanol)	104-76-7	Yes	Yes	Yes	Yes	4.17E-02	NC	1.39E+00	3.39E+01	--	9.53E+05	1.08E+06	2.64E+01	8.80E-01	CRC	-		4.00E-04	P	No	-	4.17E-02
Hexanol, n-	111-27-3	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		5.10E+06	4.56E+06	2.64E+01	-		-		-		No	-	-
Hexanone, 2-	591-78-6	Yes	Yes	Yes	Yes	3.13E+00	NC	1.04E+02	7.60E+02	--	6.25E+07	7.08E+07	2.64E+01	1.00E+00	CRC	-		3.00E-02	I	No	-	3.13E+00
Hexazinone	51235-04-2	No	No	No (not volatile)	No (not volatile)	-		-	-		3.05E+00	3.05E+00	2.64E+01	-		-		-		No	-	-
Hexythiazox	78587-05-0	No	No	No (not volatile)	No (not volatile)	-		-	-		4.84E-01	4.84E-01	2.64E+01	-		-		-		No	-	-
HpCDD, 1,2,3,4,6,7,8,-	35822-46-9	Yes	Yes	Yes	Yes	7.39E-06	CA	2.46E-04	1.03E-03	--	1.72E-02	1.72E-02	2.64E+01	-		3.80E-01	W	4.00E-06	W	No	7.39E-06	4.17E-04
HpCDF, 1,2,3,4,7,8,9-	55673-89-7	Yes	Yes	Yes	Yes	7.39E-06	CA	2.46E-04	1.28E-02	--	7.77E-04	7.78E-04	2.64E+01	-		3.80E-01	W	4.00E-06	W	No	7.39E-06	4.17E-04
HxCDD, 1,2,3,6,7,8-	57653-85-7	No	Yes	No (not volatile)	No (not volatile)	7.39E-07		-	-		7.57E-04	2.10E-03	2.64E+01	-		3.80E+00	W	4.00E-07	W	No	7.39E-07	4.17E-05
HxCDD, 1,2,3,7,8,9-	19408-74-3	No	Yes	No (not volatile)	No (not volatile)	7.39E-07		-	-		7.57E-04	2.10E-03	2.64E+01	-		3.80E+00	W	4.00E-07	W	No	7.39E-07	4.17E-05
HxCDF, 1,2,3,6,7,8-	57117-44-9	Yes	Yes	Yes	Yes	7.39E-07	CA	2.46E-05	4.66E-04	--	2.26E+00	5.54E-01	2.64E+01	-		3.80E+00	W	4.00E-07	W	No	7.39E-07	4.17E-05
HxCDF, 1,2,3,7,8,9-	72918-21-9	No	Yes	No (not volatile)	No (not volatile)	7.39E-07		-	-		1.55E+00	5.39E-01	2.64E+01	-		3.80E+00	W	4.00E-07	W	No	7.39E-07	4.17E-05
HxCDF, 2,3,4,6,7,8-	60851-34-5	No	Yes	No (not volatile)	No (not volatile)	7.39E-07		-	-		2.26E+00	1.64E-02	2.64E+01	-		3.80E+00	W	4.00E-07	W	No	7.39E-07	4.17E-05
Hydramethylnon	67485-29-4	No	No	No (not volatile)	No (not volatile)	-		-	-		5.40E-01	5.40E-01	2.64E+01	-		-		-		No	-	-
Hydrazine	302-01-2	Yes	Yes	Yes	Yes	5.73E-04	CA	1.91E-02	2.13E+01	--	2.48E+07	2.70E+07	2.64E+01	5.00E+00	CRC	4.90E-03	I	3.00E-05	P	No	5.73E-04	3.13E-03
Hydrazine Sulfate	10034-93-2	Indeterminate	Yes	No (not volatile)	No (not volatile)	5.73E-04		-	-		-	-	2.64E+01	-		4.90E-03	I	-		No	5.73E-04	-
Hydrogen Chloride	7647-01-0	Yes	Yes	Yes	Yes	2.09E+00	NC	6.95E+01	1.03E+08	--	6.75E+10	1.37E+04	2.64E+01	-		-		2.00E-02	I	No	-	2.09E+00
Hydrogen Cyanide	74-90-8	Yes	Yes	Yes	Yes	8.34E-02	NC	2.78E+00	1.46E+01	--	1.08E+09	5.71E+09	2.64E+01	6.00E+00	CRC	-		8.00E-04	I	No	-	8.34E-02
Hydrogen Fluoride	7664-39-3	Yes	Yes	Yes	Yes	1.46E+00	NC	4.87E+01	3.40E+02	--	9.87E+08	4.29E+09	2.64E+01	-		-		1.40E-02	C	No	-	1.46E+00
Hydrogen Selenide	7783-07-5	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		3.97E+10	-	2.64E+01	-		-		-		No	-	-
Hydrogen Sulfate	12143-45-2	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Hydrogen Sulfide	7783-06-4	Yes	Yes	Yes	Yes	2.09E-01	NC	6.95E+00	5.82E-01	--	2.87E+10	1.34E+09	2.64E+01	4.00E+00	CRC	-		2.00E-03	I	No	-	2.09E-01
Hydroquinone	123-31-9	No	No	No (not volatile)	No (not volatile)	-		-	-		1.42E+02	1.62E+02	2.64E+01	1.60E+00	YAWS	-		-		No	-	-
Imazalil	35554-44-0	No	No	No (not volatile)	No (not volatile)	-		-	-		1.90E+01	1.91E+01	2.64E+01	-		-		-		No	-	-
Imazaquin	81335-37-7	No	No	No (not volatile)	No (not volatile)	-		-	-		1.72E-06	2.54E-08	2.64E+01	-		-		-		No	-	-
Imazethapyr	81335-77-5	No	No	No (not volatile)	No (not volatile)	-		-	-		3.35E-04	5.95E-06	2.64E+01	-		-		-		No	-	-
Indeno[1,2,3-cd]pyrene	193-39-5	No	Yes	No (not volatile)	No (not volatile)	1.69E-02		-	-		1.86E-03	3.35E-03	2.64E+01	-		6.00E-05	E	-		Mut	1.69E-02	-
Indium	7440-74-6	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Iodide	20461-54-5	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Iodine	7553-56-2	No	No	No (not volatile)	No (not volatile)	-		-	-		3.18E+06	-	2.64E+01	-		-		-		No	-	-
Iodomethane	74-88-4	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		3.09E+09	3.11E+09	2.64E+01	-		-		-		No	-	-
Iodopropynyl Butylcarbamate (IPBC)	55406-53-6	No	No	No (not volatile)	No (not volatile)	-		-	-		7.94E+02	7.65E+02	2.64E+01	-		-		-		No	-	-
Iprodione	36734-19-7	No	No	No (not volatile)	No (not volatile)	-		-	-		6.66E-02	1.77E+00	2.64E+01	-		-		-		No	-	-
Iron	7439-89-6	No	No	No (not volatile)	No (not volatile)	-		-	-		0.00E+00	-	2.64E+01	-		-		-		No	-	-
Iron Sulfide	11126-12-8	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Isobutyl Alcohol	78-83-1	Yes	Yes	Yes	Yes	4.17E+01	NC	1.39E+03	9.55E+04	--	4.17E+07	3.71E+07	2.64E+01	1.70E+00	CRC	-		4.00E-01	X	No	-	4.17E+01
Isodrin	465-73-6	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.36E+03	3.06E+01	2.64E+01	-		-		-		No	-	-
Isophorone	78-59-1	No	Yes	No (not volatile)	No (not volatile)	2.09E+02		-	-		3.26E+06	3.59E+06	2.64E+01	8.00E-01	CRC	-		2.00E+00	C	No	-	2.09E+02
Isopropalin	33820-53-0	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		4.99E+02	4.99E+02	2.64E+01	-		-		-		No	-	-
Isopropanol	67-63-0	Yes	Yes	Yes	Yes	2.09E+01	NC	6.95E+02	5.81E+04	--	1.47E+08	3.59E+08	2.64E+01	2.00E+00	CRC	-		2.00E-01	P	No	-	2.09E+01
Isopropyl Methyl Phosphonic Acid	1832-54-8	No	No	No (not volatile)	No (not volatile)	-		-	-		8.84E+04	1.42E+04	2.64E+01	-		-		-		No	-	-
Isopropyltoluene, p-	99-87-6	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.05E+07	1.15E+07	2.64E+01	7.00E-01	CRC	-		-		No	-	-
Isosafrole	120-58-1	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.14E+05	2.12E+08	2.64E+01	-		-		-		No	-	-
Isoxaben	82558-50-7	No	No	No (not volatile)	No (not volatile)	-		-	-		7.38E-02	7.37E-02	2.64E+01	-		-		-		No	-	-
Jet propulsion fuel 4 (JP-4)	50815-00-4	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		-	2.33E+10	2.64E+01	-		-		-		No	-	-
Jet propulsion fuel 5 (JP-5)	NA	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		-	1.21E+04	2.64E+01	-		-		-		No	-	-
Jet propulsion fuel 7 (JP-7)	NA	Yes	Yes		Yes	3.13E+01	NC	-	7.65E+01	--	-	4.25E+06	2.64E+01	-		-		3.00E-01	A	No	-	3.13E+01

Jet propulsion fuel 8 (JP-8)	NA	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		-	3.00E+04	2.64E+01	-		-		-		No	-	-
Kerosene	8008-20-6	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		-	4.25E+06	2.64E+01	-		-		-		No	-	-
Lactofen	77501-63-4	No	No	No (not volatile)	No (not volatile)	-		-	-		1.74E+00	1.93E+00	2.64E+01	-		-		-		No	-	-
Lactonitrile	78-97-7	No	No	No (not volatile)	No (not volatile)	-		-	-		4.55E+05	2.12E+08	2.64E+01	2.70E+00	YAWS	-		-		No	-	-
Lanthanum	7439-91-0	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Lanthanum Acetate Hydrate	100587-90-4	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Lanthanum Chloride Heptahydrate	10025-84-0	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Lanthanum Chloride, Anhydrous	10099-58-8	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Lanthanum Nitrate Hexahydrate	10277-43-7	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Lead Alkyls	NA	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Lead Phosphate	7446-27-7	Indeterminate	Yes	No (not volatile)	No (not volatile)	2.34E-01		-	-		-	-	2.64E+01	-		1.20E-05	C	-		No	2.34E-01	-
Lead acetate	301-04-2	No	Yes	No (not volatile)	No (not volatile)	3.51E-02		-	-		1.27E+04	-	2.64E+01	-		8.00E-05	C	-		No	3.51E-02	-
Lead and Compounds	7439-92-1	No	No	No (not volatile)	No (not volatile)	-		-	-		0.00E+00	-	2.64E+01	-		-		-		No	-	-
Lead subacetate	1335-32-6	No	Yes	No (not volatile)	No (not volatile)	2.55E-01		-	-		1.29E-02	-	2.64E+01	-		1.10E-05	C	-		No	2.55E-01	-
Lewisite	541-25-3	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		6.47E+06	4.87E+06	2.64E+01	-		-		-		No	-	-
Linuron	330-55-2	No	No	No (not volatile)	No (not volatile)	-		-	-		1.92E+01	1.92E+01	2.64E+01	-		-		-		No	-	-
Lithium	7439-93-2	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Lithium Perchlorate	7791-03-9	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Lithium bis[(trifluoromethyl)sulfonyl]azanide	90076-65-6	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		4.63E-01	7.07E+08	2.64E+01	-		-		-		No	-	-
Lutetium	7439-94-3	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
MCPA	94-74-6	No	No	No (not volatile)	No (not volatile)	-		-	-		6.37E+01	3.43E+01	2.64E+01	-		-		-		No	-	-
MCPB	94-81-5	No	No	No (not volatile)	No (not volatile)	-		-	-		5.33E+00	5.32E+00	2.64E+01	-		-		-		No	-	-
MCPP	93-65-2	No	No	No (not volatile)	No (not volatile)	-		-	-		8.66E+00	4.61E+02	2.64E+01	-		-		-		No	-	-
Magnesium	7439-95-4	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Malathion	121-75-5	No	No	No (not volatile)	No (not volatile)	-		-	-		6.01E+01	2.86E+01	2.64E+01	-		-		-		No	-	-
Maleic Anhydride	108-31-6	No	Yes	No (not volatile)	No (not volatile)	7.30E-02		-	-		1.32E+06	2.91E+07	2.64E+01	1.40E+00	CRC	-		7.00E-04	C	No	-	7.30E-02
Maleic Hydrazide	123-33-1	No	No	No (not volatile)	No (not volatile)	-		-	-		1.67E+01	4.88E+00	2.64E+01	-		-		-		No	-	-
Malononitrile	109-77-3	No	No	No (not volatile)	No (not volatile)	-		-	-		7.11E+05	7.93E+05	2.64E+01	2.90E+00	YAWS	-		-		No	-	-
Mancozeb	8018-01-7	No	No	No (not volatile)	No (not volatile)	-		-	-		3.84E-03	3.85E-03	2.64E+01	-		-		-		No	-	-
Maneb	12427-38-2	No	No	No (not volatile)	No (not volatile)	-		-	-		1.19E+00	1.19E+00	2.64E+01	-		-		-		No	-	-
Manganese (Diet)	7439-96-5	No	Yes	No (not volatile)	No (not volatile)	5.21E-03		-	-		0.00E+00	-	2.64E+01	-		-		5.00E-05	I	No	-	5.21E-03
Manganese (Non-diet)	7439-96-5	No	Yes	No (not volatile)	No (not volatile)	5.21E-03		-	-		0.00E+00	-	2.64E+01	-		-		5.00E-05	I	No	-	5.21E-03
Mechlorethamine	51-75-2	No	No	No (not volatile)	No (not volatile)	-		-	-		1.43E+06	1.43E+06	2.64E+01	-		-		-		No	-	-
Mephosfolan	950-10-7	No	No	No (not volatile)	No (not volatile)	-		-	-		4.61E+02	2.77E-01	2.64E+01	-		-		-		No	-	-
Mepiquat Chloride	24307-26-4	No	No	No (not volatile)	No (not volatile)	-		-	-		2.99E+00	8.81E+01	2.64E+01	-		-		-		No	-	-
Mercaptobenzothiazole, 2-	149-30-4	No	No	No (not volatile)	No (not volatile)	-		-	-		4.17E+03	1.78E+02	2.64E+01	1.00E+00	YAWS	-		-		No	-	-
Mercuric Chloride	7487-94-7	Indeterminate	Yes	No (not volatile)	No (not volatile)	3.13E-02		-	-		-	-	2.64E+01	-		-		3.00E-04	G	No	-	3.13E-02
Mercury (elemental)	7439-97-6	Yes	Yes	Yes	Yes	3.13E-02	NC	1.04E+00	7.90E-02	Yes (2)	2.11E+04	2.38E+04	2.64E+01	-		-		3.00E-04	I	No	-	3.13E-02
Merphos	150-50-5	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		3.21E+02	3.25E+00	2.64E+01	-		-		-		No	-	-
Metalaxyl	57837-19-1	No	No	No (not volatile)	No (not volatile)	-		-	-		8.44E+01	1.01E+03	2.64E+01	-		-		-		No	-	-
Methacrylonitrile	126-98-7	Yes	Yes	Yes	Yes	3.13E+00	NC	1.04E+02	2.91E+02	--	2.57E+08	2.73E+08	2.64E+01	2.00E+00	CRC	-		3.00E-02	P	No	-	3.13E+00
Methamidophos	10265-92-6	No	No	No (not volatile)	No (not volatile)	-		-	-		2.68E+02	3.55E+04	2.64E+01	-		-		-		No	-	-
Methanol	67-56-1	Yes	Yes	Yes	Yes	2.09E+03	NC	6.95E+04	1.05E+07	--	2.19E+08	1.99E+08	2.64E+01	6.00E+00	CRC	-		2.00E+01	I	No	-	2.09E+03
Methapyrilene	91-80-5	No	No	No (not volatile)	No (not volatile)	-		-	-		7.49E+01	7.96E-02	2.64E+01	-		-		-		No	-	-
Methidathion	950-37-8	No	No	No (not volatile)	No (not volatile)	-		-	-		5.48E+01	5.48E+01	2.64E+01	-		-		-		No	-	-
Methomyl	16752-77-5	No	No	No (not volatile)	No (not volatile)	-		-	-		4.71E+01	4.67E+01	2.64E+01	-		-		-		No	-	-

Methoxy-5-nitroaniline, 2-	99-59-2	No	No	No (not volatile)	No (not volatile)	-		-	-		2.88E+03	5.88E+01	2.64E+01	-		-		-		No	-	-
Methoxychlor	72-43-5	No	No	No (not volatile)	No (not volatile)	-		-	-		4.80E+01	8.30E-01	2.64E+01	-		-		-		No	-	-
Methoxyethanol Acetate, 2-	110-49-6	Yes	Yes	Yes	Yes	1.04E-01	NC	3.48E+00	7.45E+03	--	4.45E+07	1.40E+07	2.64E+01	1.50E+00	CRC	-		1.00E-03	P	No	-	1.04E-01
Methoxyethanol, 2-	109-86-4	Yes	Yes	Yes	Yes	7.30E-01	NC	2.43E+01	5.01E+04	--	3.89E+07	1.46E+07	2.64E+01	1.80E+00	CRC	-		7.00E-03	P	No	-	7.30E-01
Methyl Acetate	79-20-9	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		8.61E+08	1.21E+09	2.64E+01	3.10E+00	CRC	-		-		No	-	-
Methyl Acrylate	96-33-3	Yes	Yes	Yes	Yes	2.09E+00	NC	6.95E+01	2.40E+02	--	4.01E+08	4.29E+08	2.64E+01	2.80E+00	CRC	-		2.00E-02	P	No	-	2.09E+00
Methyl Ethyl Ketone (2-Butanone)	78-93-3	Yes	Yes	Yes	Yes	5.21E+02	NC	1.74E+04	2.11E+05	--	3.51E+08	5.51E+08	2.64E+01	1.40E+00	CRC	-		5.00E+00	I	No	-	5.21E+02
Methyl Hydrazine	60-34-4	Yes	Yes	Yes	Yes	2.09E-03	NC	6.95E-02	1.57E+01	--	1.24E+08	1.33E+08	2.64E+01	2.50E+00	CRC	1.00E-03	X	2.00E-05	X	No	2.81E-03	2.09E-03
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1	Yes	Yes	Yes	Yes	3.13E+02	NC	1.04E+04	5.16E+04	--	1.07E+08	1.15E+08	2.64E+01	1.20E+00	CRC	-		3.00E+00	I	No	-	3.13E+02
Methyl Isocyanate	624-83-9	Yes	Yes	Yes	Yes	1.04E-01	NC	3.48E+00	2.63E+00	--	1.07E+09	1.16E+09	2.64E+01	5.30E+00	CRC	-		1.00E-03	C	No	-	1.04E-01
Methyl Mercaptan	74-93-1	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		3.90E+09	2.04E+09	2.64E+01	3.90E+00	CRC	-		-		No	-	-
Methyl Mercury	22967-92-6	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Methyl Methacrylate	80-62-6	Yes	Yes	Yes	Yes	7.30E+01	NC	2.43E+03	5.20E+03	--	2.07E+08	2.11E+08	2.64E+01	1.70E+00	CRC	-		7.00E-01	I	No	-	7.30E+01
Methyl Parathion	298-00-0	No	No	No (not volatile)	No (not volatile)	-		-	-		4.95E+01	1.54E+02	2.64E+01	-		-		-		No	-	-
Methyl Phosphonic Acid	993-13-5	No	No	No (not volatile)	No (not volatile)	-		-	-		1.69E+03	9.98E+00	2.64E+01	-		-		-		No	-	-
Methyl Styrene (Mixed Isomers)	25013-15-4	Yes	Yes	Yes	Yes	4.17E+00	NC	1.39E+02	3.49E+01	--	2.86E+07	1.06E+07	2.64E+01	-		-		4.00E-02	H	No	-	4.17E+00
Methyl dicyclohexylamine, n-	7560-83-0	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.84E+05	1.58E+06	2.64E+01	-		-		-		No	-	-
Methyl methanesulfonate	66-27-3	No	Yes	No (not volatile)	No (not volatile)	1.00E-01		-	-		1.84E+06	3.30E+07	2.64E+01	-		2.80E-05	C	-		No	1.00E-01	-
Methyl tert-Butyl Ether (MTBE)	1634-04-4	Yes	Yes	Yes	Yes	1.08E+01	CA	3.60E+02	4.27E+02	--	1.19E+09	1.29E+09	2.64E+01	2.00E+00	YAWS	2.60E-07	C	3.00E+00	I	No	1.08E+01	3.13E+02
Methyl-1,4-benzenediamine dihydrochloride, 2-	615-45-2	No	No	No (not volatile)	No (not volatile)	-		-	-		4.32E-05	2.61E-04	2.64E+01	-		-		-		No	-	-
Methyl-2-Pentanol, 4-	108-11-2	Yes	Yes	Yes	Yes	3.13E+02	NC	1.04E+04	1.56E+05	--	2.91E+07	3.29E+07	2.64E+01	1.00E+00	CRC	-		3.00E+00	X	No	-	3.13E+02
Methyl-5-Nitroaniline, 2-	99-55-8	No	No	No (not volatile)	No (not volatile)	-		-	-		7.98E+03	3.39E+03	2.64E+01	-		-		-		No	-	-
Methyl-N-nitro-N-nitrosoguanidine, N-	70-25-7	No	Yes	No (not volatile)	No (not volatile)	1.17E-03		-	-		9.49E+02	1.33E+01	2.64E+01	-		2.40E-03	C	-		No	1.17E-03	-
Methylaniline Hydrochloride, 2-	636-21-5	No	Yes	No (not volatile)	No (not volatile)	7.59E-02		-	-		2.26E+06	7.12E+05	2.64E+01	-		3.70E-05	C	-		No	7.59E-02	-
Methylarsonic acid	124-58-3	No	No	No (not volatile)	No (not volatile)	-		-	-		1.22E+04	-	2.64E+01	-		-		-		No	-	-
Methylaziridine, 2-	75-55-8	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		4.30E+08	4.33E+08	2.64E+01	-		-		-		No	-	-
Methylbenzene,1-4-diamine monohydrochloride, 2-	74612-12-7	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Methylbenzene-1,4-diamine sulfate, 2-	615-50-9	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Methylcholanthrene, 3-	56-49-5	No	Yes	No (not volatile)	No (not volatile)	1.61E-04		-	-		6.21E-01	6.21E-01	2.64E+01	-		6.30E-03	C	-		Mut	1.61E-04	-
Methylcyclohexane	108-87-2	Yes	Yes	Yes	Yes	9.91E+00	NC	3.30E+02	5.30E-01	--	2.43E+08	2.62E+08	2.64E+01	1.20E+00	CRC	-		9.50E-02	X	No	-	9.91E+00
Methylcyclohexylamine, n-	100-60-7	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.81E+07	2.35E+07	2.64E+01	-		-		-		No	-	-
Methylcyclopentane	96-37-7	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		6.22E+08	6.58E+08	2.64E+01	1.00E+00	CRC	-		-		No	-	-
Methylene Chloride	75-09-2	Yes	Yes	Yes	Yes	6.26E+01	NC	2.09E+03	4.48E+02	No (5)	1.99E+09	1.82E+09	2.64E+01	1.30E+01	CRC	1.00E-08	I	6.00E-01	I	Mut	1.01E+02	6.26E+01
Methylene-bis(2-chloroaniline), 4,4'-	101-14-4	No	Yes	No (not volatile)	No (not volatile)	2.36E-03		-	-		4.11E+00	2.31E-02	2.64E+01	-		4.30E-04	C	-		Mut	2.36E-03	-
Methylene-bis(N,N-dimethyl) Aniline, 4,4'-	101-61-1	No	Yes	No (not volatile)	No (not volatile)	2.16E-01		-	-		2.39E+02	1.81E-01	2.64E+01	-		1.30E-05	C	-		No	2.16E-01	-
Methylenebisbenzenamine, 4,4'-	101-77-9	No	Yes	No (not volatile)	No (not volatile)	6.10E-03		-	-		2.16E+00	2.17E+00	2.64E+01	-		4.60E-04	C	2.00E-02	C	No	6.10E-03	2.09E+00
Methylenediphenyl Diisocyanate	101-68-8	No	Yes	No (not volatile)	No (not volatile)	6.26E-02		-	-		6.73E+01	3.56E+01	2.64E+01	6.00E-01	YAWS	-		6.00E-04	I	No	-	6.26E-02
Methylisothiocyanate	556-61-6	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.39E+07	1.39E+07	2.64E+01	-		-		-		No	-	-
Methylnaphthalene	1321-94-4	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		5.12E+05	5.84E+05	2.64E+01	-		-		-		No	-	-
Methylnaphthalene, 1-	90-12-0	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		5.12E+05	6.02E+05	2.64E+01	8.00E-01	YAWS	-		-		No	-	-
Methylnaphthalene, 2-	91-57-6	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		4.21E+05	5.89E+05	2.64E+01	8.00E-01	YAWS	-		-		No	-	-
Methylstyrene, Alpha-	98-83-9	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.21E+07	1.34E+07	2.64E+01	1.90E+00	CRC	-		-		No	-	-
Methyltriethyl Lead	1762-28-3	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.18E+07	4.88E+07	2.64E+01	-		-		-		No	-	-
Metolachlor	51218-45-2	No	No	No (not volatile)	No (not volatile)	-		-	-		4.79E+02	1.95E+02	2.64E+01	-		-		-		No	-	-
Metribuzin	21087-64-9	No	No	No (not volatile)	No (not volatile)	-		-	-		5.01E+00	5.02E+00	2.64E+01	-		-		-		No	-	-
Metsulfuron-methyl	74223-64-6	No	No	No (not volatile)	No (not volatile)	-		-	-		5.13E-05	5.13E-05	2.64E+01	-		-		-		No	-	-
Midrange Aliphatic Hydrocarbon Streams	NA	Yes	Yes	Yes	Yes	6.24E-01	CA	2.08E+01	4.04E-03	--	3.07E+07	3.40E+07	2.64E+01	8.00E-01	CRC	4.50E-06	X	1.00E-01	P	No	6.24E-01	1.04E+01
Mineral oils	8012-95-1	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.24E+06	1.24E+06	2.64E+01	-		-		-		No	-	-
Mirex	2385-85-5	Yes	Yes	Yes	Yes	5.51E-04	CA	1.84E-02	1.66E-02	--	2.35E+01	2.82E+03	2.64E+01	-		5.10E-03	C	-		No	5.51E-04	-
Molinate	2212-67-1	No	No	No (not volatile)	No (not volatile)	-		-	-		5.64E+04	1.63E+05	2.64E+01	-		-		-		No	-	-
Molybdenum	7439-98-7	No	Yes	No (not volatile)	No (not volatile)	2.09E-01		-	-		0.00E+00	-	2.64E+01	-		-		2.00E-03	A	No	-	2.09E-01
Monoaluminum phosphate	13530-50-2	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-

Monoammonium phosphate	7722-76-1	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Monobutyltin Compounds	NA	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Monocalcium phosphate	7758-23-8	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Monochloramine	10599-90-3	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Monochlorobutanes	25154-42-1	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Monocyclic aromatic hydrocarbons (total)	NA	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Monomagnesium phosphate	7757-86-0	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Monomethylaniline	100-61-8	No	No	No (not volatile)	No (not volatile)	-		-	-		2.61E+06	2.26E+06	2.64E+01	1.20E+00	YAWS	-		-		No	-	-
Monopotassium phosphate	7778-77-0	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Monosodium phosphate	7558-80-7	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Myclobutanil	88671-89-0	No	No	No (not volatile)	No (not volatile)	-		-	-		2.36E+01	2.48E+01	2.64E+01	-		-		-		No	-	-
N,N'-Diphenyl-1,4-benzenediamine	74-31-7	No	No	No (not volatile)	No (not volatile)	-		-	-		8.89E-02	7.16E-02	2.64E+01	5.00E-01	YAWS	-		-		No	-	-
N-Methyl dithiocarbamate	137-42-8	No	No	No (not volatile)	No (not volatile)	-		-	-		3.15E-02	-	2.64E+01	-		-		-		No	-	-
Naled	300-76-5	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		4.10E+03	3.99E+03	2.64E+01	-		-		-		No	-	-
Naphtha, High Flash Aromatic (HFAN)	64742-95-6	Yes	Yes		Yes	1.04E+01	NC	-	5.80E+02	--	-	5.58E+05	2.64E+01	-		-		1.00E-01	P	No	-	1.04E+01
Naphthalene	91-20-3	Yes	Yes	Yes	Yes	8.26E-02	CA	2.75E+00	4.17E+00	--	5.86E+05	6.14E+05	2.64E+01	9.00E-01	CRC	3.40E-05	C	3.00E-03	I	No	8.26E-02	3.13E-01
Naphthol, 2-	135-19-3	No	No	No (not volatile)	No (not volatile)	-		-	-		2.48E+03	8.46E+02	2.64E+01	-		-		-		No	-	-
Naphthoquinone, 1,4-	130-15-4	No	No	No (not volatile)	No (not volatile)	-		-	-		1.53E+03	5.38E+01	2.64E+01	-		-		-		No	-	-
Naphthylamine, 1-	134-32-7	No	No	No (not volatile)	No (not volatile)	-		-	-		3.22E+04	7.71E+03	2.64E+01	-		-		-		No	-	-
Naphthylamine, 2-	91-59-8	No	Yes	No (not volatile)	No (not volatile)	-		-	-		1.97E+03	6.26E+02	2.64E+01	-		0.00E+00	C	-		No	-	-
Napropamide	15299-99-7	No	No	No (not volatile)	No (not volatile)	-		-	-		2.51E+00	2.51E+00	2.64E+01	-		-		-		No	-	-
Neodymium Chloride (Stable, Nonradioactive)	10024-93-8	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Niagara Blue 4B	2429-74-5	No	No	No (not volatile)	No (not volatile)	-		-	-		3.00E-34	2.06E-38	2.64E+01	-		-		-		No	-	-
Nickel Acetate	373-02-4	No	Yes	No (not volatile)	No (not volatile)	1.46E-03		-	-		1.70E+02	-	2.64E+01	-		2.60E-04	C	1.40E-05	C	No	1.08E-02	1.46E-03
Nickel Carbonate	3333-67-3	No	Yes	No (not volatile)	No (not volatile)	1.46E-03		-	-		2.27E+01	-	2.64E+01	-		2.60E-04	C	1.40E-05	C	No	1.08E-02	1.46E-03
Nickel Carbonyl	13463-39-3	Yes	Yes	Yes	Yes	1.46E-03	NC	4.87E-02	6.79E-05	--	2.89E+09	3.87E+09	2.64E+01	2.00E+00	N	2.60E-04	C	1.40E-05	C	No	1.08E-02	1.46E-03
Nickel Hydroxide	12054-48-7	Indeterminate	Yes	No (not volatile)	No (not volatile)	1.46E-03		-	-		-	-	2.64E+01	-		2.60E-04	C	1.40E-05	C	No	1.08E-02	1.46E-03
Nickel Oxide	1313-99-1	Indeterminate	Yes	No (not volatile)	No (not volatile)	2.09E-03		-	-		-	-	2.64E+01	-		2.60E-04	C	2.00E-05	C	No	1.08E-02	2.09E-03
Nickel Refinery Dust	NA	Indeterminate	Yes	No (not volatile)	No (not volatile)	1.46E-03		-	-		-	-	2.64E+01	-		2.40E-04	I	1.40E-05	C	No	1.17E-02	1.46E-03
Nickel Soluble Salts	7440-02-0	No	Yes	No (not volatile)	No (not volatile)	1.46E-03		-	-		0.00E+00	-	2.64E+01	-		2.60E-04	C	1.40E-05	C	No	1.08E-02	1.46E-03
Nickel Subsulfide	12035-72-2	Indeterminate	Yes	No (not volatile)	No (not volatile)	1.46E-03		-	-		-	-	2.64E+01	-		4.80E-04	I	1.40E-05	C	No	5.85E-03	1.46E-03
Nickelocene	1271-28-9	Indeterminate	Yes	No (not volatile)	No (not volatile)	1.46E-03		-	-		-	-	2.64E+01	-		2.60E-04	C	1.40E-05	C	No	1.08E-02	1.46E-03
Nicotinonitrile	100-54-9	No	No	No (not volatile)	No (not volatile)	-		-	-		1.66E+06	1.66E+06	2.64E+01	-		-		-		No	-	-
Niobium	7440-03-1	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Nitrate (measured as nitrogen)	14797-55-8	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Nitrate + Nitrite (measured as nitrogen)	NA	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Nitric Acid	7697-37-2	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.14E+08	-	2.64E+01	-		-		-		No	-	-
Nitric Oxide	10102-43-9	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		4.34E+10	-	2.64E+01	-		-		-		No	-	-
Nitrite (measured as nitrogen)	14797-65-0	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Nitroaniline, 2-	88-74-4	No	Yes	No (not volatile)	No (not volatile)	5.21E-03		-	-		2.06E+04	4.13E+03	2.64E+01	1.50E+00	YAWS	-		5.00E-05	X	No	-	5.21E-03
Nitroaniline, 3-	99-09-2	No	No	No (not volatile)	No (not volatile)	-		-	-		7.10E+02	4.55E+02	2.64E+01	1.70E+00	YAWS	-		-		No	-	-
Nitroaniline, 4-	100-01-6	No	Yes	No (not volatile)	No (not volatile)	6.26E-01		-	-		2.38E+01	4.46E+01	2.64E+01	1.50E+00	YAWS	-		6.00E-03	P	No	-	6.26E-01
Nitrobenzene	98-95-3	Yes	Yes	Yes	Yes	7.02E-02	CA	2.34E+00	6.47E+01	--	1.62E+06	2.27E+06	2.64E+01	1.80E+00	CRC	4.00E-05	I	9.00E-03	I	No	7.02E-02	9.39E-01
Nitrobiphenyl, 4-	92-93-3	No	No	No (not volatile)	No (not volatile)	-		-	-		3.48E+02	1.78E+02	2.64E+01	-		-		-		No	-	-
Nitrocellulose	9004-70-0	No	No	No (not volatile)	No (not volatile)	-		-	-		2.94E-10	1.35E-09	2.64E+01	-		-		-		No	-	-
Nitrodiphenylamine, 2-	119-75-5	No	No	No (not volatile)	No (not volatile)	-		-	-		1.15E+02	1.19E+02	2.64E+01	-		-		-		No	-	-
Nitrofurantoin	67-20-9	No	No	No (not volatile)	No (not volatile)	-		-	-		3.56E-03	4.32E-03	2.64E+01	-		-		-		No	-	-

Nitrofurazone	59-87-0	No	Yes	No (not volatile)	No (not volatile)	7.59E-03		-	-		4.59E+01	2.66E-03	2.64E+01	-		3.70E-04	C	-		No	7.59E-03	-
Nitrogen Dioxide	10102-44-0	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.23E+09	-	2.64E+01	-		-		-		No	-	-
Nitroglycerin	55-63-0	No	No	No (not volatile)	No (not volatile)	-		-	-		4.89E+03	5.82E+03	2.64E+01	-		-		-		No	-	-
Nitroguanidine	556-88-7	No	No	No (not volatile)	No (not volatile)	-		-	-		8.00E-05	8.00E-05	2.64E+01	-		-		-		No	-	-
Nitromethane	75-52-5	Yes	Yes	Yes	Yes	3.19E-01	CA	1.06E+01	2.55E+02	--	1.18E+08	1.39E+08	2.64E+01	7.30E+00	CRC	8.80E-06	P	5.00E-03	P	No	3.19E-01	5.21E-01
Nitrophenol, 2-	88-75-5	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		8.45E+05	1.31E+06	2.64E+01	-		-		-		No	-	-
Nitrophenol, 2-amino-4-	99-57-0	No	No	No (not volatile)	No (not volatile)	-		-	-		2.92E+02	8.43E-02	2.64E+01	-		-		-		No	-	-
Nitrophenol, 3-	554-84-7	No	No	No (not volatile)	No (not volatile)	-		-	-		8.83E+03	1.10E+03	2.64E+01	-		-		-		No	-	-
Nitrophenol, 4-	100-02-7	No	No	No (not volatile)	No (not volatile)	-		-	-		7.32E+02	1.97E+02	2.64E+01	-		-		-		No	-	-
Nitrophenol, 4-amino-2-	119-34-6	No	No	No (not volatile)	No (not volatile)	-		-	-		2.92E+02	1.00E+00	2.64E+01	-		-		-		No	-	-
Nitropropane, 2-	79-46-9	Yes	Yes	Yes	Yes	4.84E-03	CA	1.61E-01	9.22E-01	--	8.25E+07	8.92E+07	2.64E+01	2.60E+00	CRC	5.80E-04	X	2.00E-02	I	No	4.84E-03	2.09E+00
Nitropyrene, 4-	57835-92-4	No	Yes	No (not volatile)	No (not volatile)	2.55E-02		-	-		7.40E-01	6.80E-02	2.64E+01	-		1.10E-04	C	-		No	2.55E-02	-
Nitroquinoline-1-oxide. 4-	56-57-5	No	No	No (not volatile)	No (not volatile)	-		-	-		2.66E+01	2.61E-03	2.64E+01	-		-		-		No	-	-
Nitroso-N-ethylurea, N-	759-73-9	No	Yes	No (not volatile)	No (not volatile)	1.32E-04		-	-		1.15E+05	7.02E+01	2.64E+01	-		7.70E-03	C	-		Mut	1.32E-04	-
Nitroso-N-methylurea, N-	684-93-5	No	Yes	No (not volatile)	No (not volatile)	2.98E-05		-	-		1.62E+05	5.83E+01	2.64E+01	-		3.40E-02	C	-		Mut	2.98E-05	-
Nitroso-di-N-butylamine, N-	924-16-3	Yes	Yes	Yes	Yes	1.75E-03	CA	5.85E-02	3.04E+00	--	3.99E+05	7.33E+05	2.64E+01	-		1.60E-03	I	-		No	1.75E-03	-
Nitroso-di-N-propylamine, N-	621-64-7	No	Yes	No (not volatile)	No (not volatile)	1.40E-03		-	-		6.02E+05	2.86E+06	2.64E+01	-		2.00E-03	C	-		No	1.40E-03	-
Nitrosodiethanolamine, N-	1116-54-7	No	Yes	No (not volatile)	No (not volatile)	3.51E-03		-	-		3.61E+03	1.98E+02	2.64E+01	-		8.00E-04	C	-		No	3.51E-03	-
Nitrosodiethylamine, N-	55-18-5	No	Yes	No (not volatile)	No (not volatile)	2.36E-05		-	-		4.72E+06	1.57E+07	2.64E+01	-		4.30E-02	I	-		Mut	2.36E-05	-
Nitrosodimethylamine, N-	62-75-9	Yes	Yes	Yes	Yes	7.24E-05	CA	2.41E-03	9.00E-01	--	1.08E+07	8.05E+07	2.64E+01	-		1.40E-02	I	4.00E-05	X	Mut	7.24E-05	4.17E-03
Nitrosodiphenylamine, N-	86-30-6	No	Yes	No (not volatile)	No (not volatile)	1.08E+00		-	-		1.07E+06	1.73E+03	2.64E+01	-		2.60E-06	C	-		No	1.08E+00	-
Nitrosomethylethylamine, N-	10595-95-6	Yes	Yes	Yes	Yes	4.46E-04	CA	1.49E-02	7.57E+00	--	5.21E+06	1.77E+07	2.64E+01	-		6.30E-03	C	-		No	4.46E-04	-
Nitrosomethylvinylamine, N-	4549-40-0	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		4.15E+07	4.42E+06	2.64E+01	-		-		-		No	-	-
Nitrosomorpholine [N-]	59-89-2	No	Yes	No (not volatile)	No (not volatile)	1.48E-03		-	-		2.25E+05	1.00E+06	2.64E+01	-		1.90E-03	C	-		No	1.48E-03	-
Nitrosopiperidine [N-]	100-75-4	No	Yes	No (not volatile)	No (not volatile)	1.04E-03		-	-		5.65E+05	2.64E+06	2.64E+01	-		2.70E-03	C	-		No	1.04E-03	-
Nitrosopyrrolidine, N-	930-55-2	No	Yes	No (not volatile)	No (not volatile)	4.60E-03		-	-		3.23E+05	2.00E+06	2.64E+01	-		6.10E-04	I	-		No	4.60E-03	-
Nitrotoluene, 4-Amino-2-	119-32-4	No	No	No (not volatile)	No (not volatile)	-		-	-		7.95E+03	4.75E+02	2.64E+01	-		-		-		No	-	-
Nitrotoluene, m-	99-08-1	No	No	No (not volatile)	No (not volatile)	-		-	-		1.51E+06	2.11E+05	2.64E+01	1.30E+00	YAWS	-		-		No	-	-
Nitrotoluene, o-	88-72-2	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.39E+06	3.74E+05	2.64E+01	2.20E+00	YAWS	-		-		No	-	-
Nitrotoluene, p-	99-99-0	No	No	No (not volatile)	No (not volatile)	-		-	-		1.16E+05	1.14E+05	2.64E+01	1.60E+00	YAWS	-		-		No	-	-
Nonachlor, trans-	39765-80-5	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.39E+01	1.06E+01	2.64E+01	-		-		-		No	-	-
Nonane, n-	111-84-2	Yes	Yes	Yes	Yes	2.09E+00	NC	6.95E+01	1.38E-02	--	3.07E+07	3.32E+07	2.64E+01	8.00E-01	CRC	-		2.00E-02	P	No	-	2.09E+00
Nonanol, n-	143-08-8	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.76E+05	1.97E+05	2.64E+01	-		-		-		No	-	-
Nonylphenol	25154-52-3	No	No	No (not volatile)	No (not volatile)	-		-	-		2.80E+02	1.47E+03	2.64E+01	1.00E+00	YAWS	-		-		No	-	-
Norflurazon	27314-13-2	No	No	No (not volatile)	No (not volatile)	-		-	-		4.72E-01	4.73E-01	2.64E+01	-		-		-		No	-	-
OCDD	3268-87-9	No	Yes	No (not volatile)	No (not volatile)	2.46E-04		-	-		2.04E-05	6.31E-05	2.64E+01	-		1.14E-02	W	1.33E-04	W	No	2.46E-04	1.39E-02
OCDF	39001-02-0	No	Yes	No (not volatile)	No (not volatile)	2.46E-04		-	-		8.95E-05	3.16E-05	2.64E+01	-		1.14E-02	W	1.33E-04	W	No	2.46E-04	1.39E-02
Octabromodiphenyl Ether	32536-52-0	No	No	No (not volatile)	No (not volatile)	-		-	-		5.47E+05	3.39E-08	2.64E+01	-		-		-		No	-	-
Octachlorostyrene	29082-74-4	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.70E+02	1.64E+01	2.64E+01	-		-		-		No	-	-
Octadecanoic Acid	57-11-4	No	No	No (not volatile)	No (not volatile)	-		-	-		1.10E+01	1.42E+01	2.64E+01	4.00E-01	YAWS	-		-		No	-	-
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	2691-41-0	No	No	No (not volatile)	No (not volatile)	-		-	-		5.26E-07	1.77E-01	2.64E+01	-		-		-		No	-	-
Octahydrotrimethylmethylethylphenanthrenol	511-15-9	No	No	No (not volatile)	No (not volatile)	-		-	-		1.60E+01	2.76E+00	2.64E+01	-		-		-		No	-	-
Octamethylpyrophosphoramide	152-16-9	No	No	No (not volatile)	No (not volatile)	-		-	-		1.54E+04	1.54E+04	2.64E+01	-		-		-		No	-	-
Octanol, n-	111-87-5	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		5.56E+05	6.00E+05	2.64E+01	-		-		-		No	-	-
Octanone, 2-	111-13-7	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		9.31E+06	7.78E+06	2.64E+01	1.00E+00	YAWS	-		-		No	-	-
Octanone, 3-	106-68-3	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.38E+07	1.51E+07	2.64E+01	-		-		-		No	-	-
Octyl Phthalate, di-N-	117-84-0	No	No	No (not volatile)	No (not volatile)	-		-	-		2.10E+00	2.87E+00	2.64E+01	-		-		-		No	-	-
Oleic acid	112-80-1	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.13E+01	2.58E+01	2.64E+01	4.00E-01	YAWS	-		-		No	-	-

Oleum	8014-95-7	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Oryzalin	19044-88-3	No	No	No (not volatile)	No (not volatile)	-		-	-		1.82E-01	1.95E-01	2.64E+01	-		-		-		No	-	-
Oxadiazon	19666-30-9	No	No	No (not volatile)	No (not volatile)	-		-	-		2.08E+00	2.08E+00	2.64E+01	-		-		-		No	-	-
Oxamyl	23135-22-0	No	No	No (not volatile)	No (not volatile)	-		-	-		2.71E+03	2.71E+03	2.64E+01	-		-		-		No	-	-
Oxychlordane	27304-13-8	No	No	No (not volatile)	No (not volatile)	-		-	-		1.57E+02	8.09E-02	2.64E+01	-		-		-		No	-	-
Oxyfluorfen	42874-03-3	No	No	No (not volatile)	No (not volatile)	-		-	-		3.89E+00	3.89E+00	2.64E+01	-		-		-		No	-	-
Ozone	10028-15-6	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Paclobutrazol	76738-62-0	No	No	No (not volatile)	No (not volatile)	-		-	-		1.19E-01	8.80E-02	2.64E+01	-		-		-		No	-	-
Paraquat Dichloride	1910-42-5	No	No	No (not volatile)	No (not volatile)	-		-	-		1.04E+00	8.16E+00	2.64E+01	-		-		-		No	-	-
Parathion	56-38-2	No	No	No (not volatile)	No (not volatile)	-		-	-		1.05E+02	1.34E+02	2.64E+01	-		-		-		No	-	-
PeCDF, 1,2,3,7,8-	57117-41-6	No	Yes	No (not volatile)	No (not volatile)	2.46E-06		-	-		3.17E-02	4.81E-02	2.64E+01	-		1.14E+00	W	1.33E-06	W	No	2.46E-06	1.39E-04
PeCDF, 2,3,4,7,8-	57117-31-4	No	Yes	No (not volatile)	No (not volatile)	2.46E-07		-	-		3.17E-02	4.81E-02	2.64E+01	-		1.14E+01	W	1.33E-07	W	No	2.46E-07	1.39E-05
Pebulate	1114-71-2	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		9.68E+05	9.69E+05	2.64E+01	-		-		-		No	-	-
Pendimethalin	40487-42-1	No	No	No (not volatile)	No (not volatile)	-		-	-		2.21E+02	1.15E+01	2.64E+01	-		-		-		No	-	-
Pentabromodiphenyl Ether	32534-81-9	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		9.41E-01	1.06E+01	2.64E+01	-		-		-		No	-	-
Pentabromodiphenyl ether, 2,2',4,4',5- (BDE-99)	60348-60-9	No	No	No (not volatile)	No (not volatile)	-		-	-		9.41E-01	3.79E-03	2.64E+01	-		-		-		No	-	-
Pentachloroaniline	527-20-8	No	No	No (not volatile)	No (not volatile)	-		-	-		4.99E+01	5.18E-01	2.64E+01	-		-		-		No	-	-
Pentachlorobenzene	608-93-5	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.36E+04	2.70E+04	2.64E+01	-		-		-		No	-	-
Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	65510-44-3	Yes	Yes	Yes	Yes	2.46E-03	CA	8.21E-02	3.17E-01	--	9.60E+01	1.24E+02	2.64E+01	-		1.14E-03	W	1.33E-03	W	No	2.46E-03	1.39E-01
Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	31508-00-6	Yes	Yes	Yes	Yes	2.46E-03	CA	8.21E-02	1.82E-01	--	1.58E+02	1.82E+02	2.64E+01	-		1.14E-03	W	1.33E-03	W	No	2.46E-03	1.39E-01
Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	32598-14-4	Yes	Yes	Yes	Yes	2.46E-03	CA	8.21E-02	1.85E-01	--	1.15E+02	4.53E+01	2.64E+01	-		1.14E-03	W	1.33E-03	W	No	2.46E-03	1.39E-01
Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	74472-37-0	Yes	Yes	Yes	Yes	2.46E-03	CA	8.21E-02	6.52E-01	--	9.60E+01	6.04E+01	2.64E+01	-		1.14E-03	W	1.33E-03	W	No	2.46E-03	1.39E-01
Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	57465-28-8	Yes	Yes	Yes	Yes	7.39E-07	CA	2.46E-05	8.26E-05	--	3.90E+01	6.56E+01	2.64E+01	-		3.80E+00	W	4.00E-07	W	No	7.39E-07	4.17E-05
Pentachlorocyclopentadiene	25329-35-5	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		5.74E+05	2.48E+06	2.64E+01	-		-		-		No	-	-
Pentachlorodibenzo-p-dioxin, 1,2,3,7,8-	40321-76-4	No	Yes	No (not volatile)	No (not volatile)	7.39E-08		-	-		8.34E-03	1.63E-02	2.64E+01	-		3.80E+01	W	4.00E-08	W	No	7.39E-08	4.17E-06
Pentachloroethane	76-01-7	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		3.81E+07	4.20E+07	2.64E+01	-		-		-		No	-	-
Pentachloronitrobenzene	82-68-8	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		7.94E+02	7.95E+02	2.64E+01	-		-		-		No	-	-
Pentachlorophenol	87-86-5	No	Yes	No (not volatile)	No (not volatile)	5.51E-01		-	-		1.58E+03	1.40E+01	2.64E+01	-		5.10E-06	C	-		No	5.51E-01	-
Pentaerythritol tetranitrate (PETN)	78-11-5	No	No	No (not volatile)	No (not volatile)	-		-	-		9.27E-02	3.23E+00	2.64E+01	-		-		-		No	-	-
Pentamethyl dipropylenetriamine	3855-32-1	No	No	No (not volatile)	No (not volatile)	-		-	-		3.76E+05	2.00E+03	2.64E+01	-		-		-		No	-	-
Pentamethylphosphoramide (PMPA)	10159-46-3	No	No	No (not volatile)	No (not volatile)	-		-	-		1.29E+06	5.30E+01	2.64E+01	-		-		-		No	-	-
Pentane, n-	109-66-0	Yes	Yes	Yes	Yes	1.04E+02	NC	3.48E+03	1.95E+00	--	1.99E+09	2.03E+09	2.64E+01	1.40E+00	CRC	-		1.00E+00	P	No	-	1.04E+02
Pentyl Alcohol, N-	71-41-0	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.04E+07	1.29E+07	2.64E+01	1.20E+00	CRC	-		-		No	-	-
Perchlorate and Perchlorate Salts	14797-73-0	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Perfluorobutanesulfonate	45187-15-3	No	No	No (not volatile)	No (not volatile)	-		-	-		8.04E+05	-	2.64E+01	-		-		-		No	-	-
Perfluorobutanesulfonic acid (PFBS)	375-73-5	No	No	No (not volatile)	No (not volatile)	-		-	-		8.07E+05	-	2.64E+01	-		-		-		No	-	-
Perfluorobutanoate	45048-62-2	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.72E+08	9.46E+06	2.64E+01	-		-		-		No	-	-
Perfluorobutanoic acid (PFBA)	375-22-4	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.73E+08	2.24E+07	2.64E+01	-		-		-		No	-	-
Perfluorododecanoic acid (PFDoDA)	307-55-1	No	No	No (not volatile)	No (not volatile)	-		-	-		6.94E+02	1.15E+00	2.64E+01	-		-		-		No	-	-
Perfluorohexanesulfonate	108427-53-8	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Perfluorohexanoate	92612-52-7	No	No	No (not volatile)	No (not volatile)	-		-	-		5.56E+06	2.40E+03	2.64E+01	-		-		-		No	-	-
Perfluorohexanoic acid (PFHxA)	307-24-4	No	No	No (not volatile)	No (not volatile)	-		-	-		5.57E+06	2.40E+03	2.64E+01	-		-		-		No	-	-
Perfluorononanoate	72007-68-2	No	No	No (not volatile)	No (not volatile)	-		-	-		2.37E+05	-	2.64E+01	-		-		-		No	-	-
Perfluorononanoic acid (PFNA)	375-95-1	No	No	No (not volatile)	No (not volatile)	-		-	-		2.38E+05	-	2.64E+01	-		-		-		No	-	-
Perfluorooctadecanoic acid (PFODA)	16517-11-6	No	No	No (not volatile)	No (not volatile)	-		-	-		6.19E+02	2.65E-05	2.64E+01	-		-		-		No	-	-
Perfluorooctanesulfonate	45298-90-6	No	No	No (not volatile)	No (not volatile)	-		-	-		1.75E+04	1.21E+04	2.64E+01	-		-		-		No	-	-
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	No	No	No (not volatile)	No (not volatile)	-		-	-		1.76E+04	1.21E+04	2.64E+01	-		-		-		No	-	-

Perfluorooctanoate	45285-51-6	No	No	No (not volatile)	No (not volatile)	-		-	-		6.66E+05	1.39E+06	2.64E+01	-		-		-		No	-	-
Perfluorooctanoic acid (PFOA)	335-67-1	No	No	No (not volatile)	No (not volatile)	-		-	-		6.69E+05	1.39E+06	2.64E+01	-		-		-		No	-	-
Perfluoropropanoic acid (PFPrA)	422-64-0	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		3.53E+08	9.27E+07	2.64E+01	-		-		-		No	-	-
Perfluorotetradecanoic acid (PFTetA)	376-06-7	No	No	No (not volatile)	No (not volatile)	-		-	-		1.63E+04	4.29E-03	2.64E+01	-		-		-		No	-	-
Perfluoroundecanoic acid (PFUDA)	2058-94-8	No	No	No (not volatile)	No (not volatile)	-		-	-		2.25E+04	1.24E+00	2.64E+01	-		-		-		No	-	-
Permethrin	52645-53-1	No	No	No (not volatile)	No (not volatile)	-		-	-		4.59E-01	4.59E-01	2.64E+01	-		-		-		No	-	-
Perylene	198-55-0	No	Yes	No (not volatile)	No (not volatile)	2.09E-04		-	-		7.12E-02	5.97E-02	2.64E+01	-		-		2.00E-06	X	No	-	2.09E-04
Pesticides (total)	NA	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Phenacetin	62-44-2	No	Yes	No (not volatile)	No (not volatile)	4.46E+00		-	-		6.67E+00	6.67E+00	2.64E+01	-		6.30E-07	C	-		No	4.46E+00	-
Phenanthrene	85-01-8	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.16E+03	2.28E+03	2.64E+01	7.00E-01	YAWS	-		-		No	-	-
Phenmedipham	13684-63-4	No	No	No (not volatile)	No (not volatile)	-		-	-		1.62E-04	1.62E-04	2.64E+01	-		-		-		No	-	-
Phenol	108-95-2	No	Yes	No (not volatile)	No (not volatile)	2.09E+01		-	-		1.77E+06	1.25E+06	2.64E+01	1.80E+00	CRC	-		2.00E-01	C	No	-	2.09E+01
Phenol, 2-(1-methylethoxy)-, methylcarbamate	114-26-1	No	No	No (not volatile)	No (not volatile)	-		-	-		2.36E+02	1.09E+02	2.64E+01	-		-		-		No	-	-
Phenothiazine	92-84-2	No	No	No (not volatile)	No (not volatile)	-		-	-		9.54E+00	1.82E+00	2.64E+01	-		-		-		No	-	-
Phenyl Isothiocyanate	103-72-0	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.09E+07	1.09E+07	2.64E+01	-		-		-		No	-	-
Phenyl-1-(2,4-dimethylphenyl)-ethane, 1- (PXE)	6165-52-2	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		7.22E+03	5.42E+03	2.64E+01	-		-		-		No	-	-
Phenylenediamine, m-	108-45-2	No	No	No (not volatile)	No (not volatile)	-		-	-		1.22E+04	1.39E+04	2.64E+01	1.30E+00	YAWS	-		-		No	-	-
Phenylenediamine, o-	95-54-5	No	No	No (not volatile)	No (not volatile)	-		-	-		1.20E+04	1.35E+04	2.64E+01	1.50E+00	CRC	-		-		No	-	-
Phenylenediamine, p-	106-50-3	No	No	No (not volatile)	No (not volatile)	-		-	-		2.91E+04	1.16E+03	2.64E+01	1.30E+00	YAWS	-		-		No	-	-
Phenylmercuric Acetate	62-38-4	No	No	No (not volatile)	No (not volatile)	-		-	-		1.09E+02	1.01E+02	2.64E+01	-		-		-		No	-	-
Phenylphenol, 2-	90-43-7	No	No	No (not volatile)	No (not volatile)	-		-	-		1.83E+04	3.00E+04	2.64E+01	-		-		-		No	-	-
Phorate	298-02-2	No	No	No (not volatile)	No (not volatile)	-		-	-		8.93E+03	8.93E+03	2.64E+01	-		-		-		No	-	-
Phosgene	75-44-5	Yes	Yes	Yes	Yes	3.13E-02	NC	1.04E+00	4.35E-02	--	7.54E+09	4.91E+09	2.64E+01	-		-		3.00E-04	I	No	-	3.13E-02
Phosmet	732-11-6	No	No	No (not volatile)	No (not volatile)	-		-	-		8.36E+00	8.36E+00	2.64E+01	-		-		-		No	-	-
Phosphine	7803-51-2	Yes	Yes	Yes	Yes	3.13E-02	NC	1.04E+00	3.10E-02	--	5.36E+10	2.62E+11	2.64E+01	1.80E+00	CRC	-		3.00E-04	I	No	-	3.13E-02
Phosphoric Acid	7664-38-2	No	Yes	No (not volatile)	No (not volatile)	1.04E+00		-	-		1.58E+05	-	2.64E+01	-		-		1.00E-02	I	No	-	1.04E+00
Phosphoric acid, aluminum salt (1:1) [aluminum phosphate]	7784-30-7	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Phosphoric acid, aluminum sodium salt (1:X:X) [sodium aluminum phosphate acidic (acidic SALP)]	7785-88-8	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Phosphorus pentoxide	1314-56-3	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Phosphorus, White	7723-14-0	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		4.16E+04	2.65E+05	2.64E+01	-		-		-		No	-	-
Phthalates (total)	NA	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Phthalic Acid, m-	121-91-5	No	No	No (not volatile)	No (not volatile)	-		-	-		2.32E-01	2.51E-03	2.64E+01	1.30E+00	YAWS	-		-		No	-	-
Phthalic Acid, o-	88-99-3	No	No	No (not volatile)	No (not volatile)	-		-	-		5.68E+00	7.04E+00	2.64E+01	1.30E+00	YAWS	-		-		No	-	-
Phthalic Acid, p-	100-21-0	No	No	No (not volatile)	No (not volatile)	-		-	-		8.22E+01	2.89E-04	2.64E+01	1.30E+00	YAWS	-		-		No	-	-
Phthalic Anhydride	85-44-9	No	Yes	No (not volatile)	No (not volatile)	2.09E+00		-	-		4.12E+03	4.73E+03	2.64E+01	1.70E+00	CRC	-		2.00E-02	C	No	-	2.09E+00
Picloram	1918-02-1	No	No	No (not volatile)	No (not volatile)	-		-	-		9.36E-04	9.37E-04	2.64E+01	-		-		-		No	-	-
Picoline, 2-	109-06-8	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		5.61E+07	4.39E+08	2.64E+01	1.40E+00	YAWS	-		-		No	-	-
Picramic Acid (2-Amino-4,6-dinitrophenol)	96-91-3	No	No	No (not volatile)	No (not volatile)	-		-	-		4.45E+00	5.58E-01	2.64E+01	-		-		-		No	-	-
Picric Acid (2,4,6-Trinitrophenol)	88-89-1	No	No	No (not volatile)	No (not volatile)	-		-	-		9.24E+00	8.83E+00	2.64E+01	-		-		-		No	-	-
Piperidine	110-89-4	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.47E+08	1.94E+08	2.64E+01	1.40E+00	YAWS	-		-		No	-	-
Pirimiphos, Methyl	29232-93-7	No	No	No (not volatile)	No (not volatile)	-		-	-		2.46E+02	2.46E+02	2.64E+01	-		-		-		No	-	-
Polybrominated Biphenyls	36355-01-8	Indeterminate	Yes	No (not volatile)	No (not volatile)	3.26E-04		-	-		-	-	2.64E+01	-		8.60E-03	C	-		No	3.26E-04	-
Polychlorinated Biphenyls (high risk)	1336-36-3	Yes	Yes	Yes	Yes	4.91E-03	CA	1.64E-01	2.90E-01	Yes (1)	7.76E+03	1.19E+04	2.64E+01	-		5.71E-04	I	-		No	4.91E-03	-
Polychlorinated Biphenyls (low risk)	1336-36-3	Yes	Yes	Yes	Yes	2.81E-02	CA	9.36E-01	1.65E+00	No (1)	7.76E+03	1.19E+04	2.64E+01	-		1.00E-04	I	-		No	2.81E-02	-
Polychlorinated Biphenyls (lowest risk)	1336-36-3	Yes	Yes	Yes	Yes	1.40E-01	CA	4.68E+00	8.27E+00	No (1)	7.76E+03	1.19E+04	2.64E+01	-		2.00E-05	I	-		No	1.40E-01	-
Polycyclic aromatic hydrocarbons (PAH), Total (high molecular weight)	NA	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Polycyclic aromatic hydrocarbons (PAH), Total (low molecular weight)	NA	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-

Polycyclic chlorinated hydrocarbons (total)	NA	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Polymeric Methylene Diphenyl Diisocyanate (PMDI)	9016-87-9	No	Yes	No (not volatile)	No (not volatile)	6.26E-02		-	-		1.49E-05	9.51E-10	2.64E+01	-		-		6.00E-04	I	No	-	6.26E-02
Polyphosphoric acid	8017-16-1	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Potassium	7440-09-7	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Potassium Cyanide	151-50-8	No	Yes	No (not volatile)	No (not volatile)	9.39E-01		-	-		0.00E+00	-	2.64E+01	-		-		9.00E-03	C	No	-	9.39E-01
Potassium Perchlorate	7778-74-7	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Potassium Silver Cyanide	506-61-6	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Potassium heptafluorobutanoate	2966-54-3	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.94E+08	3.54E+08	2.64E+01	-		-		-		No	-	-
Potassium perfluorobutanesulfonate	29420-49-3	No	No	No (not volatile)	No (not volatile)	-		-	-		1.66E+00	1.66E+00	2.64E+01	-		-		-		No	-	-
Potassium perfluorooctanesulfonate	2795-39-3	No	No	No (not volatile)	No (not volatile)	-		-	-		7.18E+01	5.56E+04	2.64E+01	-		-		-		No	-	-
Potassium salts of inorganic phosphates	NA	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Potassium tripolyphosphate	13845-36-8	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Praseodymium	7440-10-0	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Praseodymium Chloride (Stable, Nonradioactive)	10361-79-2	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Prochloraz	67747-09-5	No	No	No (not volatile)	No (not volatile)	-		-	-		2.29E+01	2.28E+01	2.64E+01	-		-		-		No	-	-
Profluralin	26399-36-0	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.18E+03	1.19E+03	2.64E+01	-		-		-		No	-	-
Promethium	7440-12-2	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Prometon	1610-18-0	No	No	No (not volatile)	No (not volatile)	-		-	-		2.79E+01	2.79E+01	2.64E+01	-		-		-		No	-	-
Prometryn	7287-19-6	No	No	No (not volatile)	No (not volatile)	-		-	-		1.61E+01	1.61E+01	2.64E+01	-		-		-		No	-	-
Pronamide	23950-58-5	No	No	No (not volatile)	No (not volatile)	-		-	-		5.99E+00	5.99E+00	2.64E+01	-		-		-		No	-	-
Propachlor	1918-16-7	No	No	No (not volatile)	No (not volatile)	-		-	-		2.62E+03	8.54E+03	2.64E+01	-		-		-		No	-	-
Propanil	709-98-8	No	No	No (not volatile)	No (not volatile)	-		-	-		1.06E+01	1.06E+01	2.64E+01	-		-		-		No	-	-
Propargite	2312-35-8	No	No	No (not volatile)	No (not volatile)	-		-	-		5.65E+00	5.63E+00	2.64E+01	-		-		-		No	-	-
Propargyl Alcohol	107-19-7	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		4.70E+07	1.67E+08	2.64E+01	2.40E+00	YAWS	-		-		No	-	-
Propazine	139-40-2	No	No	No (not volatile)	No (not volatile)	-		-	-		1.62E+00	1.62E+00	2.64E+01	-		-		-		No	-	-
Propham	122-42-9	No	No	No (not volatile)	No (not volatile)	-		-	-		1.35E+03	1.35E+03	2.64E+01	-		-		-		No	-	-
Propiconazole	60207-90-1	No	No	No (not volatile)	No (not volatile)	-		-	-		7.73E+00	7.74E+00	2.64E+01	-		-		-		No	-	-
Propionaldehyde	123-38-6	Yes	Yes	Yes	Yes	8.34E-01	NC	2.78E+01	2.64E+02	--	9.90E+08	9.66E+08	2.64E+01	2.60E+00	CRC	-		8.00E-03	I	No	-	8.34E-01
Propionitrile	107-12-0	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.40E+08	1.66E+08	2.64E+01	3.10E+00	CRC	-		-		No	-	-
Propionitrile, 3-(NN-dimethylamino)	1738-25-6	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		7.13E+06	8.22E+05	2.64E+01	-		-		-		No	-	-
Propyl Alcohol, n-	71-23-8	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		6.78E+07	3.30E+08	2.64E+01	2.20E+00	CRC	-		-		No	-	-
Propyl benzene	103-65-1	Yes	Yes	Yes	Yes	1.04E+02	NC	3.48E+03	2.24E+02	--	2.21E+07	2.43E+07	2.64E+01	8.00E-01	CRC	-		1.00E+00	X	No	-	1.04E+02
Propylene	115-07-1	Yes	Yes	Yes	Yes	3.13E+02	NC	1.04E+04	3.82E+01	--	1.97E+10	1.64E+09	2.64E+01	2.00E+00	CRC	-		3.00E+00	C	No	-	3.13E+02
Propylene Glycol	57-55-6	No	No	No (not volatile)	No (not volatile)	-		-	-		5.28E+05	5.94E+05	2.64E+01	2.60E+00	CRC	-		-		No	-	-
Propylene Glycol Dinitrate	6423-43-4	No	Yes	No (not volatile)	No (not volatile)	2.83E-02		-	-		3.38E+06	1.26E+05	2.64E+01	-		-		2.72E-04	A	No	-	2.83E-02
Propylene Glycol Monoethyl Ether	1569-02-4	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.16E+07	1.21E+06	2.64E+01	-		-		-		No	-	-
Propylene Glycol Monomethyl Ether	107-98-2	Yes	Yes	Yes	Yes	2.09E+02	NC	6.95E+03	5.18E+06	--	6.06E+07	4.02E+07	2.64E+01	1.60E+00	N	-		2.00E+00	I	No	-	2.09E+02
Propylene Oxide	75-56-9	Yes	Yes	Yes	Yes	7.59E-01	CA	2.53E+01	2.54E+02	--	1.68E+09	1.76E+09	2.64E+01	1.90E+00	YAWS	3.70E-06	I	3.00E-02	I	No	7.59E-01	3.13E+00
Prussian Blue (Ferric Ferrocyanide)	14038-43-8	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Pyrazinyl phosphorothioate, O,O-diethyl O-2-	297-97-2	No	No	No (not volatile)	No (not volatile)	-		-	-		4.01E+04	4.01E+04	2.64E+01	-		-		-		No	-	-
Pyrene	129-00-0	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		4.90E+01	7.71E+01	2.64E+01	6.00E-01	YAWS	-		-		No	-	-
Pyridine	110-86-1	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		8.85E+07	4.82E+08	2.64E+01	1.80E+00	CRC	-		-		No	-	-
Quinalphos	13593-03-8	No	No	No (not volatile)	No (not volatile)	-		-	-		4.17E+01	4.17E+01	2.64E+01	-		-		-		No	-	-
Quinoline	91-22-5	No	No	No (not volatile)	No (not volatile)	-		-	-		4.17E+05	4.66E+05	2.64E+01	1.00E+00	YAWS	-		-		No	-	-
Quizalofop-ethyl	76578-14-8	No	No	No (not volatile)	No (not volatile)	-		-	-		1.30E-01	1.30E-01	2.64E+01	-		-		-		No	-	-
Refractory Ceramic Fibers (units in fibers)	NA	Indeterminate	Yes	No (not volatile)	No (not volatile)	3.13E+03		-	-		-	-	2.64E+01	-		-		3.00E+04	A	No	-	3.13E+03
Resmethrin	10453-86-8	No	No	No (not volatile)	No (not volatile)	-		-	-		2.06E-01	2.06E-01	2.64E+01	-		-		-		No	-	-

Resorcinol	108-46-3	No	No	No (not volatile)	No (not volatile)	-		-	-		2.90E+03	3.37E+03	2.64E+01	1.40E+00	CRC	-		-		No	-	-
Ronnel	299-84-3	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.30E+03	1.31E+03	2.64E+01	-		-		-		No	-	-
Rotenone	83-79-4	No	No	No (not volatile)	No (not volatile)	-		-	-		1.47E-02	9.16E-07	2.64E+01	-		-		-		No	-	-
Rubidium	7440-17-7	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Rubidium Chloride	7791-11-9	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Rubidium Hydroxide	1310-82-3	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Rubidium Iodide	7790-29-6	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Safrole	94-59-7	No	Yes	No (not volatile)	No (not volatile)	1.61E-02		-	-		6.54E+05	4.97E+04	2.64E+01	-		6.30E-05	C	-		Mut	1.61E-02	-
Samarium Chloride (Stable, Nonradioactive)	10361-82-7	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Samarium Nitrate (Stable, Nonradioactive)	10361-83-8	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Scandium	7440-20-2	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Selenious Acid	7783-00-8	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Selenite	14124-67-5	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Selenium	7782-49-2	No	Yes	No (not volatile)	No (not volatile)	2.09E+00		-	-		6.03E-04	-	2.64E+01	-		-		2.00E-02	C	No	-	2.09E+00
Selenium Sulfide	7446-34-6	Indeterminate	Yes	No (not volatile)	No (not volatile)	2.09E+00		-	-		-	-	2.64E+01	-		-		2.00E-02	C	No	-	2.09E+00
Selenourea	630-10-4	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.24E+07	-	2.64E+01	-		-		-		No	-	-
Sethoxydim	74051-80-2	No	No	No (not volatile)	No (not volatile)	-		-	-		2.82E+00	2.21E-02	2.64E+01	-		-		-		No	-	-
Silica (crystalline, respirable)	7631-86-9	Indeterminate	Yes	No (not volatile)	No (not volatile)	3.13E-01		-	-		-	-	2.64E+01	-		-		3.00E-03	C	No	-	3.13E-01
Silicon	7440-21-3	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Silver	7440-22-4	No	No	No (not volatile)	No (not volatile)	-		-	-		0.00E+00	-	2.64E+01	-		-		-		No	-	-
Silver Cyanide	506-64-9	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Simazine	122-34-9	No	No	No (not volatile)	No (not volatile)	-		-	-		2.40E-01	2.39E-01	2.64E+01	-		-		-		No	-	-
Sodium	7440-23-5	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Sodium Acifluorfen	62476-59-9	No	No	No (not volatile)	No (not volatile)	-		-	-		2.01E-01	6.18E+02	2.64E+01	-		-		-		No	-	-
Sodium Azide	26628-22-8	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Sodium Cyanide	143-33-9	No	Yes	No (not volatile)	No (not volatile)	9.39E-01		-	-		0.00E+00	-	2.64E+01	-		-		9.00E-03	C	No	-	9.39E-01
Sodium Diethyldithiocarbamate	148-18-5	No	No	No (not volatile)	No (not volatile)	-		-	-		7.55E-03	-	2.64E+01	-		-		-		No	-	-
Sodium Fluoride	7681-49-4	No	Yes	No (not volatile)	No (not volatile)	1.46E+00		-	-		0.00E+00	-	2.64E+01	-		-		1.40E-02	C	No	-	1.46E+00
Sodium Fluoroacetate	62-74-8	No	No	No (not volatile)	No (not volatile)	-		-	-		3.52E+00	4.95E+07	2.64E+01	-		-		-		No	-	-
Sodium Hydroxide	1310-73-2	No	No	No (not volatile)	No (not volatile)	-		-	-		3.92E-15	-	2.64E+01	-		-		-		No	-	-
Sodium Metavanadate	13718-26-8	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Sodium Perchlorate	7601-89-0	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Sodium Tungstate	13472-45-2	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Sodium aluminum phosphate (anhydrous)	10279-59-1	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Sodium aluminum phosphate (tetrahydrate)	10305-76-7	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Sodium hexametaphosphate	10124-56-8	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Sodium perfluorobutanoate	2218-54-4	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.75E+08	3.32E+08	2.64E+01	-		-		-		No	-	-
Sodium perfluorohexanoate	2923-26-4	No	No	No (not volatile)	No (not volatile)	-		-	-		-	2.84E-01	2.64E+01	-		-		-		No	-	-
Sodium polyphosphate	68915-31-1	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Sodium pyrophosphate	7758-16-9	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Sodium salts of inorganic phosphates	NA	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Sodium trimetaphosphate	7785-84-4	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Sodium tripolyphosphate	7758-29-4	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Stearyl Acetate	822-23-1	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.02E+03	6.49E+02	2.64E+01	-		-		-		No	-	-

Stirofos (Tetrachlorovinphos)	961-11-5	No	No	No (not volatile)	No (not volatile)	-		-	-		8.27E-01	8.27E-01	2.64E+01	-		-		-		No	-	-
Strontium, Stable	7440-24-6	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Strychnine	57-24-9	No	No	No (not volatile)	No (not volatile)	-		-	-		5.27E-02	4.95E-04	2.64E+01	-		-		-		No	-	-
Styrene	100-42-5	Yes	Yes	Yes	Yes	1.04E+02	NC	3.48E+03	8.55E+02	No (100)	3.58E+07	3.78E+07	2.64E+01	9.00E-01	CRC	-		1.00E+00	I	No	-	1.04E+02
Styrene-Acrylonitrile (SAN) Trimer (THNA isomer)	57964-39-3	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Styrene-Acrylonitrile (SAN) Trimer (THNP isomer)	57964-40-6	No	No	No (not volatile)	No (not volatile)	-		-	-		1.29E+00	-	2.64E+01	-		-		-		No	-	-
Sulfate	14808-79-8	No	No	No (not volatile)	No (not volatile)	-		-	-		3.13E+02	-	2.64E+01	-		-		-		No	-	-
Sulfite	14265-45-3	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Sulfolane	126-33-0	No	Yes	No (not volatile)	No (not volatile)	2.09E-01		-	-		2.64E+04	2.25E+08	2.64E+01	-		-		2.00E-03	X	No	-	2.09E-01
Sulfonylbis(4-chlorobenzene), 1,1'-	80-07-9	No	No	No (not volatile)	No (not volatile)	-		-	-		1.25E+01	1.34E+01	2.64E+01	-		-		-		No	-	-
Sulfur	7704-34-9	No	No	No (not volatile)	No (not volatile)	-		-	-		6.81E+00	-	2.64E+01	-		-		-		No	-	-
Sulfur Dioxide	7446-09-5	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.03E+10	3.69E+09	2.64E+01	-		-		-		No	-	-
Sulfur Mustard	505-60-2	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		9.41E+05	6.85E+05	2.64E+01	-		-		-		No	-	-
Sulfur Trioxide	7446-11-9	Yes	Yes	Yes		1.04E-01		3.48E+00	-		1.13E+09	-	2.64E+01	-		-		1.00E-03	C	No	-	1.04E-01
Sulfuric Acid	7664-93-9	No	Yes	No (not volatile)	No (not volatile)	1.04E-01		-	-		3.13E+02	-	2.64E+01	-		-		1.00E-03	C	No	-	1.04E-01
Sulfurous acid, 2-chloroethyl 2-[4-(1,1-dimethylethyl)phenoxy]-1-methylethyl ester	140-57-8	No	Yes	No (not volatile)	No (not volatile)	3.95E-01		-	-		3.93E+00	4.58E+00	2.64E+01	-		7.10E-06	I	-		No	3.95E-01	-
TCDD, 2,3,7,8-	1746-01-6	Yes	Yes	Yes	Yes	7.39E-08	CA	2.46E-06	3.61E-05	No (0)	2.60E-02	4.09E-01	2.64E+01	-		3.80E+01	C	4.00E-08	C	No	7.39E-08	4.17E-06
TCDF, 2,3,7,8-	51207-31-9	Yes	Yes	Yes	Yes	7.39E-07	CA	2.46E-05	1.08E-03	--	2.47E-01	4.72E-01	2.64E+01	-		3.80E+00	W	4.00E-07	W	No	7.39E-07	4.17E-05
Tebuthiuron	34014-18-1	No	No	No (not volatile)	No (not volatile)	-		-	-		3.68E+00	1.23E+01	2.64E+01	-		-		-		No	-	-
Technetium	7440-26-8	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Tellurium	13494-80-9	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Temephos	3383-96-8	No	No	No (not volatile)	No (not volatile)	-		-	-		1.98E+00	2.16E-02	2.64E+01	-		-		-		No	-	-
Terbacil	5902-51-2	No	No	No (not volatile)	No (not volatile)	-		-	-		5.48E+00	3.48E+00	2.64E+01	-		-		-		No	-	-
Terbufos	13071-79-9	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		4.96E+03	4.97E+03	2.64E+01	-		-		-		No	-	-
Terbutryn	886-50-0	No	No	No (not volatile)	No (not volatile)	-		-	-		2.19E+01	2.20E+01	2.64E+01	-		-		-		No	-	-
Tert-Butyl Acetate	540-88-5	Yes	Yes	Yes	Yes	2.16E+00	CA	7.20E+01	6.13E+01	--	2.94E+08	2.94E+08	2.64E+01	-		1.30E-06	C	-		No	2.16E+00	-
Test Chemical	NA	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Tetrabromodiphenyl ether, 2,2',4,4'- (BDE-47)	5436-43-1	No	No	No (not volatile)	No (not volatile)	-		-	-		1.83E+00	1.77E-01	2.64E+01	-		-		-		No	-	-
Tetrabutyl Lead	1920-90-7	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		6.33E+03	4.69E+06	2.64E+01	-		-		-		No	-	-
Tetrachloroaniline, 2,3,5,6-	3481-20-7	No	No	No (not volatile)	No (not volatile)	-		-	-		6.92E+03	2.23E+02	2.64E+01	-		-		-		No	-	-
Tetrachlorobenzene, 1,2,3,4-	634-66-2	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		4.53E+05	2.06E+05	2.64E+01	-		-		-		No	-	-
Tetrachlorobenzene, 1,2,4,5-	95-94-3	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		6.27E+04	2.72E+04	2.64E+01	-		-		-		No	-	-
Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	32598-13-3	No	Yes	No (not volatile)	No (not volatile)	7.39E-04		-	-		2.58E+02	2.44E-01	2.64E+01	-		3.80E-03	W	4.00E-04	W	No	7.39E-04	4.17E-02
Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	70362-50-4	Yes	Yes	Yes	Yes	2.46E-04	CA	8.21E-03	2.70E-02	--	1.33E+02	2.94E+02	2.64E+01	-		1.14E-02	W	1.33E-04	W	No	2.46E-04	1.39E-02
Tetrachloroethane, 1,1,1,2-	630-20-6	Yes	Yes	Yes	Yes	3.79E-01	CA	1.26E+01	3.41E+00	--	1.08E+08	1.19E+08	2.64E+01	4.90E+00	YAWS	7.40E-06	I	-		No	3.79E-01	-
Tetrachloroethane, 1,1,2,2-	79-34-5	Yes	Yes	Yes	Yes	4.84E-02	CA	1.61E+00	2.98E+00	--	4.17E+07	4.59E+07	2.64E+01	-		5.80E-05	C	-		No	4.84E-02	-
Tetrachloroethylene	127-18-4	Yes	Yes	Yes	Yes	4.17E+00	NC	1.39E+02	5.38E+00	No (5)	1.65E+08	1.60E+08	2.64E+01	-		2.60E-07	I	4.00E-02	I	No	1.08E+01	4.17E+00
Tetrachlorophenol, 2,3,4,5-	4901-51-3	No	No	No (not volatile)	No (not volatile)	-		-	-		4.23E+03	1.98E+02	2.64E+01	-		-		-		No	-	-
Tetrachlorophenol, 2,3,4,6-	58-90-2	No	No	No (not volatile)	No (not volatile)	-		-	-		8.31E+03	8.31E+03	2.64E+01	-		-		-		No	-	-
Tetrachlorophenols (total)	25167-83-3	No	No	No (not volatile)	No (not volatile)	-		-	-		2.49E+04	8.31E+03	2.64E+01	-		-		-		No	-	-
Tetrachloroterephthalate, 2,3,5,6-	2136-79-0	No	No	No (not volatile)	No (not volatile)	-		-	-		7.99E-01	4.71E-03	2.64E+01	-		-		-		No	-	-
Tetrachlorotoluene, p- alpha, alpha, alpha-	5216-25-1	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		4.74E+05	3.54E+04	2.64E+01	-		-		-		No	-	-
Tetraethyl Dithiopyrophosphate	3689-24-5	No	No	No (not volatile)	No (not volatile)	-		-	-		1.82E+03	5.46E+03	2.64E+01	-		-		-		No	-	-
Tetraethyl Lead	78-00-2	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		4.52E+06	7.43E+06	2.64E+01	-		-		-		No	-	-
Tetrafluoroethane, 1,1,1,2-	811-97-2	Yes	Yes	Yes	Yes	8.34E+03	NC	2.78E+05	3.95E+03	--	2.74E+10	4.31E+09	2.64E+01	-		-		8.00E+01	I	No	-	8.34E+03
Tetrahydrofuran	109-99-9	Yes	Yes	Yes	Yes	2.09E+02	NC	6.95E+03	6.85E+04	--	6.29E+08	3.05E+09	2.64E+01	2.00E+00	CRC	-		2.00E+00	I	No	-	2.09E+02
Tetrahydrothiophene	110-01-0	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		8.73E+07	9.98E+07	2.64E+01	1.50E+00	YAWS	-		-		No	-	-
Tetramethyl Lead	75-74-1	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		3.74E+08	3.74E+08	2.64E+01	-		-		-		No	-	-
Tetramethylcyclohexane	30501-43-0	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		3.56E+07	-	2.64E+01	-		-		-		No	-	-
Tetramethylphosphoramide, -N,N,N',N" (TMPA)	16853-36-4	No	No	No (not volatile)	No (not volatile)	-		-	-		2.95E+06	2.33E+01	2.64E+01	-		-		-		No	-	-

Tetrapotassium phosphate	7320-34-5	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Tetrapropyl Lead	3440-75-3	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.45E+05	6.09E+05	2.64E+01	-		-		-		No	-	-
Tetrasodium pyrophosphate	7722-88-5	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Tetryl (Trinitrophenylmethylnitramine)	479-45-8	No	No	No (not volatile)	No (not volatile)	-		-	-		8.74E-01	8.20E+00	2.64E+01	-		-		-		No	-	-
Thallic Oxide	1314-32-5	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Thallium (I) Nitrate	10102-45-1	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Thallium (Soluble Salts)	7440-28-0	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Thallium Acetate	563-68-8	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.08E+08	-	2.64E+01	-		-		-		No	-	-
Thallium Carbonate	6533-73-9	No	No	No (not volatile)	No (not volatile)	-		-	-		2.52E+01	-	2.64E+01	-		-		-		No	-	-
Thallium Chloride	7791-12-0	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Thallium Selenite	12039-52-0	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Thallium Sulfate	7446-18-6	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Thifensulfuron-methyl	79277-27-3	No	No	No (not volatile)	No (not volatile)	-		-	-		2.67E-03	3.74E-03	2.64E+01	-		-		-		No	-	-
Thiobencarb	28249-77-6	No	No	No (not volatile)	No (not volatile)	-		-	-		3.05E+02	3.06E+02	2.64E+01	-		-		-		No	-	-
Thiocyanates	NA	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Thiocyanic Acid	463-56-9	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.50E+07	-	2.64E+01	-		-		-		No	-	-
Thiocyanic acid, (2-benzothiazolylthio)methyl ester (TCMTB)	21564-17-0	No	No	No (not volatile)	No (not volatile)	-		-	-		4.00E+00	3.32E-02	2.64E+01	-		-		-		No	-	-
Thiodiglycol	111-48-8	No	No	No (not volatile)	No (not volatile)	-		-	-		2.12E+04	8.61E+04	2.64E+01	-		-		-		No	-	-
Thiofanox	39196-18-4	No	No	No (not volatile)	No (not volatile)	-		-	-		2.00E+03	2.00E+03	2.64E+01	-		-		-		No	-	-
Thiophanate, Methyl	23564-05-8	No	No	No (not volatile)	No (not volatile)	-		-	-		1.31E+00	1.32E+00	2.64E+01	-		-		-		No	-	-
Thiophene	110-02-1	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		3.61E+08	2.97E+08	2.64E+01	1.60E+00	YAWS	-		-		No	-	-
Thiram	137-26-8	No	No	No (not volatile)	No (not volatile)	-		-	-		2.23E+02	2.23E+02	2.64E+01	-		-		-		No	-	-
Thorium	7440-29-1	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Thymol	89-83-8	No	No	No (not volatile)	No (not volatile)	-		-	-		1.78E+04	1.99E+04	2.64E+01	-		-		-		No	-	-
Tin	7440-31-5	No	No	No (not volatile)	No (not volatile)	-		-	-		0.00E+00	-	2.64E+01	-		-		-		No	-	-
Titanium	7440-32-6	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Titanium Tetrachloride	7550-45-0	Yes	Yes	Yes		1.04E-02		3.48E-01	-		1.02E+08	-	2.64E+01	-		-		1.00E-04	A	No	-	1.04E-02
Toluene	108-88-3	Yes	Yes	Yes	Yes	5.21E+02	NC	1.74E+04	1.80E+03	No (1000)	1.41E+08	1.53E+08	2.64E+01	1.10E+00	CRC	-		5.00E+00	I	No	-	5.21E+02
Toluene-2,4-diisocyanate	584-84-9	Yes	Yes	Yes	Yes	8.34E-04	NC	2.78E-02	1.62E+00	--	7.49E+04	1.93E+04	2.64E+01	9.00E-01	CRC	1.10E-05	C	8.00E-06	C	No	2.55E-01	8.34E-04
Toluene-2,6-diisocyanate	91-08-7	Yes	Yes	Yes	Yes	8.34E-04	NC	2.78E-02	1.66E+00	--	1.96E+05	1.89E+04	2.64E+01	1.10E+00	YAWS	1.10E-05	C	8.00E-06	C	No	2.55E-01	8.34E-04
Toluenediamine, 2,3-	2687-25-4	No	No	No (not volatile)	No (not volatile)	-		-	-		3.63E+03	7.46E+03	2.64E+01	-		-		-		No	-	-
Toluenediamine, 2,5-	95-70-5	No	No	No (not volatile)	No (not volatile)	-		-	-		2.23E+04	2.62E+04	2.64E+01	-		-		-		No	-	-
Toluenediamine, 3,4-	496-72-0	No	No	No (not volatile)	No (not volatile)	-		-	-		4.13E+03	8.24E+03	2.64E+01	-		-		-		No	-	-
Toluic Acid, p-	99-94-5	No	No	No (not volatile)	No (not volatile)	-		-	-		3.72E+02	4.52E+03	2.64E+01	1.20E+00	YAWS	-		-		No	-	-
Toluidine, o- (Methylaniline, 2-)	95-53-4	No	Yes	No (not volatile)	No (not volatile)	5.51E-02		-	-		1.50E+06	1.48E+06	2.64E+01	1.20E+00	YAWS	5.10E-05	C	-		No	5.51E-02	-
Toluidine, p-	106-49-0	No	No	No (not volatile)	No (not volatile)	-		-	-		1.65E+06	5.96E+05	2.64E+01	1.20E+00	YAWS	-		-		No	-	-
Total Petroleum Hydrocarbons (Aliphatic High)	NA	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.24E+06	1.24E+06	2.64E+01	-		-		-		No	-	-
Total Petroleum Hydrocarbons (Aliphatic Low)	NA	Yes	Yes	Yes	Yes	4.17E+01	NC	1.39E+03	2.11E+01	--	4.59E+08	1.49E+08	2.64E+01	1.12E+00	CRC	-		4.00E-01	P	No	-	4.17E+01
Total Petroleum Hydrocarbons (Aliphatic Medium)	NA	Yes	Yes	Yes	Yes	1.04E+01	NC	3.48E+02	7.50E-02	--	3.07E+07	3.06E+07	2.64E+01	8.00E-01	CRC	-		1.00E-01	P	No	-	1.04E+01
Total Petroleum Hydrocarbons (Aromatic High)	NA	No	Yes	No (not volatile)	No (not volatile)	2.09E-04		-	-		7.45E-02	3.63E-02	2.64E+01	-		-		2.00E-06	P	Mut	-	2.09E-04
Total Petroleum Hydrocarbons (Aromatic Low)	NA	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		3.98E+08	4.31E+08	2.64E+01	1.20E+00	CRC	-		-		No	-	-
Total Petroleum Hydrocarbons (Aromatic Medium)	NA	Yes	Yes	Yes	Yes	6.26E+00	NC	2.09E+02	2.17E+01	--	1.35E+07	1.74E+07	2.64E+01	9.00E-01	CRC	-		6.00E-02	P	No	-	6.26E+00
Toxaphene	8001-35-2	No	Yes	No (not volatile)	No (not volatile)	8.77E-03		-	-		1.61E+02	1.35E+02	2.64E+01	-		3.20E-04	I	-		No	8.77E-03	-
Toxaphene, Weathered	NA	No	No	No (not volatile)	No (not volatile)	-		-	-		1.61E+02	1.35E+02	2.64E+01	-		-		-		No	-	-
Tralomethrin	66841-25-6	No	No	No (not volatile)	No (not volatile)	-		-	-		1.29E-03	1.29E-03	2.64E+01	-		-		-		No	-	-
Tri-n-butyltin	688-73-3	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		6.25E+05	4.81E+05	2.64E+01	-		-		-		No	-	-
Triacetin	102-76-1	No	No	No (not volatile)	No (not volatile)	-		-	-		2.91E+04	3.38E+04	2.64E+01	1.00E+00	CRC	-		-		No	-	-
Triadimefon	43121-43-3	No	No	No (not volatile)	No (not volatile)	-		-	-		2.37E-01	2.37E-01	2.64E+01	-		-		-		No	-	-

Triallate	2303-17-5	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.97E+03	1.96E+03	2.64E+01	-		-		-		No	-	-
Trialuminum sodium tetra decahydrogenoctaorthophosphate (dihydrate)	15136-87-5	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Triasulfuron	82097-50-5	No	No	No (not volatile)	No (not volatile)	-		-	-		1.20E-04	4.23E-04	2.64E+01	-		-		-		No	-	-
Triaziquone	68-76-8	No	No	No (not volatile)	No (not volatile)	-		-	-		4.23E+01	4.05E-03	2.64E+01	-		-		-		No	-	-
Tribenuron-methyl	101200-48-0	No	No	No (not volatile)	No (not volatile)	-		-	-		8.29E-03	2.09E-04	2.64E+01	-		-		-		No	-	-
Tribromobenzene, 1,2,4-	615-54-3	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		9.28E+04	7.64E+04	2.64E+01	-		-		-		No	-	-
Tribromochloromethane	594-15-0	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.01E+07	3.82E+05	2.64E+01	-		-		-		No	-	-
Tribromodiphenyl Ether	49690-94-0	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		5.12E+01	2.22E+02	2.64E+01	-		-		-		No	-	-
Tribromophenol, 2,4,6-	118-79-6	No	No	No (not volatile)	No (not volatile)	-		-	-		5.39E+03	1.02E+02	2.64E+01	-		-		-		No	-	-
Tribufos	78-48-8	No	No	No (not volatile)	No (not volatile)	-		-	-		8.96E+01	2.76E+01	2.64E+01	-		-		-		No	-	-
Tributyl Phosphate	126-73-8	No	No	No (not volatile)	No (not volatile)	-		-	-		1.62E+04	1.81E+04	2.64E+01	-		-		-		No	-	-
Tributyltin Compounds	NA	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Tributyltin Oxide	56-35-9	No	No	No (not volatile)	No (not volatile)	-		-	-		2.40E+02	2.41E+02	2.64E+01	-		-		-		No	-	-
Tributyltin chloride	1461-22-9	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.62E+05	5.30E+07	2.64E+01	-		-		-		No	-	-
Tributyltin fluoride	1983-10-4	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		5.85E+01	2.04E+08	2.64E+01	-		-		-		No	-	-
Tributyltin linoleate	24124-25-2	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		5.82E-03	3.38E+01	2.64E+01	-		-		-		No	-	-
Tributyltin methacrylate	2155-70-6	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.60E+03	2.49E+06	2.64E+01	-		-		-		No	-	-
Tributyltin naphthenate	85409-17-2	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Tricaine Methanesulfonate	886-86-2	No	No	No (not volatile)	No (not volatile)	-		-	-		1.29E+03	6.66E+04	2.64E+01	-		-		-		No	-	-
Tricalcium phosphate	7758-87-4	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Trichloramine	10025-85-1	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Trichloro-1,2,2-trifluoroethane, 1,1,2-	76-13-1	Yes	Yes	Yes	Yes	5.21E+02	NC	1.74E+04	2.31E+01	--	3.65E+09	3.84E+09	2.64E+01	-		-		5.00E+00	P	No	-	5.21E+02
Trichloro-2'-hydroxydiphenylether	3380-34-5	No	No	No (not volatile)	No (not volatile)	-		-	-		1.00E+01	2.04E+00	2.64E+01	-		-		-		No	-	-
Trichloroacetic Acid	76-03-9	No	No	No (not volatile)	No (not volatile)	-		-	-		5.27E+05	3.31E+04	2.64E+01	-		-		-		No	-	-
Trichloroaniline HCl, 2,4,6-	33663-50-2	No	No	No (not volatile)	No (not volatile)	-		-	-		7.68E-01	6.15E-05	2.64E+01	-		-		-		No	-	-
Trichloroaniline, 2,4,5-	636-30-6	No	No	No (not volatile)	No (not volatile)	-		-	-		3.13E+04	1.64E+03	2.64E+01	-		-		-		No	-	-
Trichloroaniline, 2,4,6-	634-93-5	No	No	No (not volatile)	No (not volatile)	-		-	-		4.69E+04	2.44E+03	2.64E+01	-		-		-		No	-	-
Trichlorobenzene	12002-48-1	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		8.94E+06	2.56E+06	2.64E+01	-		-		-		No	-	-
Trichlorobenzene, 1,2,3-	87-61-6	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.05E+06	1.04E+06	2.64E+01	-		-		-		No	-	-
Trichlorobenzene, 1,2,4-	120-82-1	Yes	Yes	Yes	Yes	2.09E-01	NC	6.95E+00	3.25E+00	Yes (70)	4.49E+06	3.14E+06	2.64E+01	2.50E+00	CRC	-		2.00E-03	P	No	-	2.09E-01
Trichloroethane, 1,1,1-	71-55-6	Yes	Yes	Yes	Yes	5.21E+02	NC	1.74E+04	7.01E+02	No (200)	8.90E+08	9.60E+08	2.64E+01	8.00E+00	CRC	-		5.00E+00	I	No	-	5.21E+02
Trichloroethane, 1,1,2-	79-00-5	Yes	Yes	Yes	Yes	2.09E-02	NC	6.95E-01	5.77E-01	Yes (5)	1.65E+08	1.66E+08	2.64E+01	6.00E+00	CRC	1.60E-05	I	2.00E-04	X	No	1.75E-01	2.09E-02
Trichloroethylene	79-01-6	Yes	Yes	Yes	Yes	2.09E-01	NC	6.95E+00	4.88E-01	Yes (5)	4.88E+08	5.48E+08	2.64E+01	8.00E+00	CRC	4.10E-06	I	2.00E-03	I	Mut	4.78E-01	2.09E-01
Trichlorofluoromethane	75-69-4	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		5.93E+09	4.55E+09	2.64E+01	-		-		-		No	-	-
Trichlorophenol, 2,4,5-	95-95-4	No	No	No (not volatile)	No (not volatile)	-		-	-		7.96E+04	8.83E+04	2.64E+01	-		-		-		No	-	-
Trichlorophenol, 2,4,6-	88-06-2	No	Yes	No (not volatile)	No (not volatile)	9.06E-01		-	-		8.50E+04	9.44E+04	2.64E+01	-		3.10E-06	I	-		No	9.06E-01	-
Trichlorophenoxyacetic Acid, 2,4,5-	93-76-5	No	No	No (not volatile)	No (not volatile)	-		-	-		5.15E+02	9.87E+01	2.64E+01	-		-		-		No	-	-
Trichlorophenoxypropionic acid, -2,4,5	93-72-1	No	No	No (not volatile)	No (not volatile)	-		-	-		1.45E+02	2.63E+01	2.64E+01	-		-		-		No	-	-
Trichloropropane, 1,1,2-	598-77-6	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.46E+07	2.65E+07	2.64E+01	-		-		-		No	-	-
Trichloropropane, 1,2,3-	96-18-4	Yes	Yes	Yes	Yes	3.13E-02	NC	1.04E+00	2.06E+00	--	2.93E+07	2.66E+07	2.64E+01	3.20E+00	CRC	-		3.00E-04	I	Mut	-	3.13E-02
Trichloropropene, 1,2,3-	96-19-5	Yes	Yes	Yes	Yes	3.13E-02	NC	1.04E+00	4.03E-02	--	3.44E+07	2.59E+08	2.64E+01	-		-		3.00E-04	P	No	-	3.13E-02
Trichlorotoluene, 2,3,6-	2077-46-5	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		7.70E+05	4.69E+05	2.64E+01	-		-		-		No	-	-
Trichlorotoluene, alpha 2,6-	2014-83-7	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		2.90E+05	1.59E+05	2.64E+01	-		-		-		No	-	-
Tricresyl Phosphate (TCP)	1330-78-5	No	No	No (not volatile)	No (not volatile)	-		-	-		1.19E+01	1.35E+01	2.64E+01	-		-		-		No	-	-
Tridiphane	58138-08-2	No	No	No (not volatile)	No (not volatile)	-		-	-		6.72E+03	1.91E+01	2.64E+01	-		-		-		No	-	-
Tridymite	15468-32-3	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Triethyl Lead	5224-23-7	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		4.99E+07	1.95E+10	2.64E+01	-		-		-		No	-	-
Triethyl phosphorothioate [O,O,O-]	126-68-1	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		9.36E+05	2.76E+06	2.64E+01	-		-		-		No	-	-
Triethylamine	121-44-8	Yes	Yes	Yes	Yes	7.30E-01	NC	2.43E+01	1.13E+02	--	3.11E+08	4.44E+08	2.64E+01	1.20E+00	CRC	-		7.00E-03	I	No	-	7.30E-01

Triethylene Glycol	112-27-6	No	No	No (not volatile)	No (not volatile)	-		-	-		1.07E+04	1.55E+03	2.64E+01	9.00E-01	CRC	-		-		No	-	-
Trifluoroethane, 1,1,1-	420-46-2	Yes	Yes	Yes	Yes	2.09E+03	NC	6.95E+04	6.49E+01	--	4.31E+10	2.45E+10	2.64E+01	-		-		2.00E+01	P	No	-	2.09E+03
Trifluralin	1582-09-8	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		8.26E+02	7.75E+02	2.64E+01	-		-		-		No	-	-
Trimagnesium phosphate	7757-87-1	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Trimethyl Lead	7442-13-9	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		8.13E+08	1.30E+09	2.64E+01	-		-		-		No	-	-
Trimethyl Phosphate	512-56-1	No	No	No (not volatile)	No (not volatile)	-		-	-		6.40E+06	1.62E+05	2.64E+01	2.20E+00	YAWS	-		-		No	-	-
Trimethyl-4-Propenylnaphthalene, 1,2,3-	26137-53-1	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.06E+03	9.01E+02	2.64E+01	-		-		-		No	-	-
Trimethylbenzene, 1,2,3-	526-73-8	Yes	Yes	Yes	Yes	6.26E+00	NC	2.09E+02	3.15E+01	--	1.09E+07	1.50E+07	2.64E+01	8.00E-01	CRC	-		6.00E-02	I	No	-	6.26E+00
Trimethylbenzene, 1,2,4-	95-63-6	Yes	Yes	Yes	Yes	6.26E+00	NC	2.09E+02	2.28E+01	--	1.36E+07	1.57E+07	2.64E+01	9.00E-01	CRC	-		6.00E-02	I	No	-	6.26E+00
Trimethylbenzene, 1,3,5-	108-67-8	Yes	Yes	Yes	Yes	6.26E+00	NC	2.09E+02	1.60E+01	--	1.60E+07	1.88E+07	2.64E+01	1.00E+00	CRC	-		6.00E-02	I	No	-	6.26E+00
Trimethylethyl Lead	1762-26-1	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.10E+08	1.10E+08	2.64E+01	-		-		-		No	-	-
Trimethylpentane, 2,2,4-	540-84-1	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		3.03E+08	3.23E+08	2.64E+01	9.00E-01	YAWS	-		-		No	-	-
Trimethylpentene, 2,4,4-	25167-70-8	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		4.29E+08	1.31E+08	2.64E+01	-		-		-		No	-	-
Trinitrobenzene, 1,3,5-	99-35-4	No	No	No (not volatile)	No (not volatile)	-		-	-		7.38E+01	8.60E+01	2.64E+01	-		-		-		No	-	-
Trinitrotoluene, 2,4,6-	118-96-7	No	No	No (not volatile)	No (not volatile)	-		-	-		9.80E+01	1.13E+02	2.64E+01	-		-		-		No	-	-
Triphenylphosphine Oxide	791-28-6	No	No	No (not volatile)	No (not volatile)	-		-	-		3.89E-02	1.35E+00	2.64E+01	-		-		-		No	-	-
Triphosphoric acid, aluminum salt (1:1) [aluminum triphosphate]	13939-25-8	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Tripotassium phosphate	7778-53-2	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Tripropyl Lead	6618-03-7	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		3.29E+06	7.04E+06	2.64E+01	-		-		-		No	-	-
Tris(1,3-Dichloro-2-propyl) Phosphate	13674-87-8	No	No	No (not volatile)	No (not volatile)	-		-	-		1.71E+00	7.47E-01	2.64E+01	-		-		-		No	-	-
Tris(1-chloro-2-propyl)phosphate	13674-84-5	No	No	No (not volatile)	No (not volatile)	-		-	-		3.56E+02	3.27E+03	2.64E+01	-		-		-		No	-	-
Tris(2,3-dibromopropyl)phosphate	126-72-7	Yes	Yes	Yes	Yes	4.25E-03	CA	1.42E-01	4.77E+00	--	7.13E+03	7.13E+03	2.64E+01	-		6.60E-04	C	-		No	4.25E-03	-
Tris(2-chloroethyl)phosphate	115-96-8	No	No	No (not volatile)	No (not volatile)	-		-	-		9.41E+05	1.07E+06	2.64E+01	-		-		-		No	-	-
Tris(2-ethylhexyl)phosphate	78-42-2	No	No	No (not volatile)	No (not volatile)	-		-	-		1.93E+00	2.12E+00	2.64E+01	-		-		-		No	-	-
Trisbutoxyethyl Phosphate	78-51-3	No	No	No (not volatile)	No (not volatile)	-		-	-		5.36E-01	5.40E-01	2.64E+01	-		-		-		No	-	-
Trisodium phosphate	7601-54-9	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Trithion	786-19-6	No	No	No (not volatile)	No (not volatile)	-		-	-		5.53E+00	5.54E+00	2.64E+01	-		-		-		No	-	-
Tungsten	7440-33-7	No	No	No (not volatile)	No (not volatile)	-		-	-		0.00E+00	-	2.64E+01	-		-		-		No	-	-
Uranium	7440-61-1	No	Yes	No (not volatile)	No (not volatile)	4.17E-03		-	-		0.00E+00	-	2.64E+01	-		-		4.00E-05	A	No	-	4.17E-03
Urea	57-13-6	No	No	No (not volatile)	No (not volatile)	-		-	-		3.88E+01	4.41E+01	2.64E+01	5.60E+00	YAWS	-		-		No	-	-
Urethane	51-79-6	No	Yes	No (not volatile)	No (not volatile)	3.50E-03		-	-		1.26E+06	1.38E+06	2.64E+01	-		2.90E-04	C	-		Mut	3.50E-03	-
Vanadium Pentoxide	1314-62-1	No	Yes	No (not volatile)	No (not volatile)	3.38E-04		-	-		0.00E+00	-	2.64E+01	-		8.30E-03	P	7.00E-06	P	No	3.38E-04	7.30E-04
Vanadium Sulfate	36907-42-3	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Vanadium and Compounds	7440-62-2	Indeterminate	Yes	No (not volatile)	No (not volatile)	1.04E-02		-	-		-	-	2.64E+01	-		-		1.00E-04	A	No	-	1.04E-02
Vanadyl Sulfate	27774-13-6	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Vernolate	1929-77-7	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-		1.14E+05	1.14E+05	2.64E+01	-		-		-		No	-	-
Vinclozolin	50471-44-8	No	No	No (not volatile)	No (not volatile)	-		-	-		1.85E+00	1.85E+00	2.64E+01	-		-		-		No	-	-
Vinyl Acetate	108-05-4	Yes	Yes	Yes	Yes	2.09E+01	NC	6.95E+02	9.34E+02	--	4.17E+08	4.47E+08	2.64E+01	2.60E+00	CRC	-		2.00E-01	I	No	-	2.09E+01
Vinyl Bromide	593-60-2	Yes	Yes	Yes	Yes	1.87E-01	CA	6.24E+00	3.58E-01	--	5.94E+09	3.97E+09	2.64E+01	9.00E+00	CRC	1.50E-05	P	3.00E-03	I	No	1.87E-01	3.13E-01
Vinyl Chloride	75-01-4	Yes	Yes	Yes	Yes	1.68E-01	CA	5.59E+00	1.43E-01	Yes (2)	1.00E+10	1.03E+10	2.64E+01	3.60E+00	CRC	4.40E-06	I	1.00E-01	I	Mut	1.68E-01	1.04E+01
Warfarin	81-81-2	No	No	No (not volatile)	No (not volatile)	-		-	-		1.92E+00	1.93E+00	2.64E+01	-		-		-		No	-	-
Xylene, m-	108-38-3	Yes	Yes	Yes	Yes	1.04E+01	NC	3.48E+02	3.30E+01	--	4.73E+07	5.09E+07	2.64E+01	1.10E+00	CRC	-		1.00E-01	G	No	-	1.04E+01
Xylene, o-	95-47-6	Yes	Yes	Yes	Yes	1.04E+01	NC	3.48E+02	4.56E+01	--	3.77E+07	4.07E+07	2.64E+01	9.00E-01	CRC	-		1.00E-01	G	No	-	1.04E+01
Xylene, p-	106-42-3	Yes	Yes	Yes	Yes	1.04E+01	NC	3.48E+02	3.43E+01	--	5.05E+07	4.93E+07	2.64E+01	1.10E+00	CRC	-		1.00E-01	G	No	-	1.04E+01
Xylenes	1330-20-7	Yes	Yes	Yes	Yes	1.04E+01	NC	3.48E+02	3.57E+01	Yes (10000)	4.56E+07	3.10E+07	2.64E+01	-		-		1.00E-01	I	No	-	1.04E+01
Ytterbium	7440-64-4	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Yttrium	7440-65-5	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Zinc Cyanide	557-21-1	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Zinc Phosphide	1314-84-7	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Zinc and Compounds	7440-66-6	Indeterminate	No	No (not volatile)	No (not volatile)	-		-	-		-	-	2.64E+01	-		-		-		No	-	-
Zineb	12122-67-7	No	No	No (not volatile)	No (not volatile)	-		-	-		1.11E+00	1.11E+00	2.64E+01	-		-		-		No	-	-

Zirconium	7440-67-7	No	No	No (not volatile)	No (not volatile)	-		-	-		0.00E+00	-	2.64E+01	-		-		-		No	-	-

Output generated 08NOV2023:15:09:41

Default

Resident Risk-Based Regional Screening Levels (RSL) for Air

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = OW; R = ORD; N = WI; W = TEF applied; E = RPF applied; G = see user guide; U = user provided; ca = cancer; nc = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values are based on DAF=1; max = ceiling limit exceeded; sat = Csat exceeded.

Chemical	CAS Number	Mutagen?	Volatile?	Chemical Type	IUR $(ug/m^3)^{-1}$	IUR Ref	RfC (mg/m^3)	RfC Ref	CarcinogenicSL TR=1E-06 (ug/m^3)	NoncarcinogenicSL THI=0.1 (ug or fibers/m^3)	Screening Level (ug orfibers/m^3)
Acenaphthene	83-32-9	No	Yes	Organics	-		-		-	-	
Acephate	30560-19-1	No	No	Organics	-		-		-	-	
Acetaldehyde	75-07-0	No	Yes	Organics	2.20E-06	I	9.00E-03	I	1.28E+00	9.39E-01	9.39E-01 nc
Acetochlor	34256-82-1	No	No	Organics	-		-		-	-	
Acetone	67-64-1	No	Yes	Organics	-		-		-	-	
Acetone Cyanohydrin	75-86-5	No	No	Organics	-		2.00E-03	X	-	2.09E-01	2.09E-01 nc
Acetonitrile	75-05-8	No	Yes	Organics	-		6.00E-02	I	-	6.26E+00	6.26E+00 nc
Acetophenone	98-86-2	No	Yes	Organics	-		-		-	-	
Acetylaminofluorene, 2-	53-96-3	No	No	Organics	1.30E-03	C	-		2.16E-03	-	2.16E-03 ca
Acrolein	107-02-8	No	Yes	Organics	-		2.00E-05	I	-	2.09E-03	2.09E-03 nc
Acrylamide	79-06-1	Yes	No	Organics	1.00E-04	I	6.00E-03	I	1.01E-02	6.26E-01	1.01E-02 ca*
Acrylic Acid	79-10-7	No	Yes	Organics	-		2.00E-04	P	-	2.09E-02	2.09E-02 nc
Acrylonitrile	107-13-1	No	Yes	Organics	6.80E-05	I	2.00E-03	I	4.13E-02	2.09E-01	4.13E-02 ca**
Adiponitrile	111-69-3	No	No	Organics	-		6.00E-03	P	-	6.26E-01	6.26E-01 nc
Alachlor	15972-60-8	No	No	Organics	-		-		-	-	
Aldicarb	116-06-3	No	No	Organics	-		-		-	-	
Aldicarb Sulfone	1646-88-4	No	No	Organics	-		-		-	-	
Aldrin	309-00-2	No	Yes	Organics	4.90E-03	I	-		5.73E-04	-	5.73E-04 ca
Allyl Alcohol	107-18-6	No	Yes	Organics	-		1.00E-04	X	-	1.04E-02	1.04E-02 nc
Allyl Chloride	107-05-1	No	Yes	Organics	6.00E-06	C	1.00E-03	I	4.68E-01	1.04E-01	1.04E-01 nc
Aluminum	7429-90-5	No	No	Inorganics	-		5.00E-03	P	-	5.21E-01	5.21E-01 nc
Aluminum Phosphide	20859-73-8	No	No	Inorganics	-		-		-	-	
Aluminum metaphosphate	13776-88-0	No	No	Inorganics	-		-		-	-	
Aluminum salts of inorganic phosphates	NA	No	No	Inorganics	-		-		-	-	
Ametryn	834-12-8	No	No	Organics	-		-		-	-	
Aminobiphenyl, 4-	92-67-1	No	No	Organics	6.00E-03	C	-		4.68E-04	-	4.68E-04 ca
Aminophenol, m-	591-27-5	No	No	Organics	-		-		-	-	
Aminophenol, o-	95-55-6	No	No	Organics	-		-		-	-	
Aminophenol, p-	123-30-8	No	No	Organics	-		-		-	-	
Amitraz	33089-61-1	No	No	Organics	-		-		-	-	
Ammonia	7664-41-7	No	Yes	Inorganics	-		5.00E-01	I	-	5.21E+01	5.21E+01 nc
Ammonium Perchlorate	7790-98-9	No	No	Inorganics	-		-		-	-	
Ammonium Picrate	131-74-8	No	No	Organics	-		-		-	-	

Ammonium Sulfamate	7773-06-0	No	No	Inorganics	-		-		-	-	
Ammonium perfluoro-2-methyl-3-oxahexanoate	62037-80-3	No	No	Organics	-		-		-	-	
Ammonium perfluorobutanoate	10495-86-0	No	Yes	Organics	-		-		-	-	
Ammonium perfluorohexanoate	21615-47-4	No	No	Organics	-		-		-	-	
Amyl Alcohol, tert-	75-85-4	No	Yes	Organics	-		3.00E-03	X	-	3.13E-01	3.13E-01 nc
Aniline	62-53-3	No	No	Organics	1.60E-06	C	1.00E-03	I	1.75E+00	1.04E-01	1.04E-01 nc
Anthracene	120-12-7	No	Yes	Organics	-		-		-	-	
Anthraquinone, 9,10-	84-65-1	No	No	Organics	-		-		-	-	
Antimony (metallic)	7440-36-0	No	No	Inorganics	-		3.00E-04	A	-	3.13E-02	3.13E-02 nc
Antimony Pentoxide	1314-60-9	No	No	Inorganics	-		-		-	-	
Antimony Tetroxide	1332-81-6	No	No	Inorganics	-		-		-	-	
Antimony Trioxide	1309-64-4	No	No	Inorganics	-		2.00E-04	I	-	2.09E-02	2.09E-02 nc
Aroclor 1016	12674-11-2	No	Yes	Organics	2.00E-05	G	-		1.40E-01	-	1.40E-01 ca
Aroclor 1221	11104-28-2	No	Yes	Organics	5.71E-04	G	-		4.91E-03	-	4.91E-03 ca
Aroclor 1232	11141-16-5	No	Yes	Organics	5.71E-04	G	-		4.91E-03	-	4.91E-03 ca
Aroclor 1242	53469-21-9	No	Yes	Organics	5.71E-04	G	-		4.91E-03	-	4.91E-03 ca
Aroclor 1248	12672-29-6	No	Yes	Organics	5.71E-04	G	-		4.91E-03	-	4.91E-03 ca
Aroclor 1254	11097-69-1	No	Yes	Organics	5.71E-04	G	-		4.91E-03	-	4.91E-03 ca
Aroclor 1260	11096-82-5	No	Yes	Organics	5.71E-04	G	-		4.91E-03	-	4.91E-03 ca
Aroclor 5460	11126-42-4	No	Yes	Organics	-		-		-	-	
Arsenic, Inorganic	7440-38-2	No	No	Inorganics	4.30E-03	I	1.50E-05	C	6.53E-04	1.56E-03	6.53E-04 ca**
Arsine	7784-42-1	No	No	Inorganics	-		5.00E-05	I	-	5.21E-03	5.21E-03 nc
Asulam	3337-71-1	No	No	Organics	-		-		-	-	
Atrazine	1912-24-9	No	No	Organics	-		-		-	-	
Auramine	492-80-8	No	No	Organics	2.50E-04	C	-		1.12E-02	-	1.12E-02 ca
Avermectin B1	65195-55-3	No	No	Organics	-		-		-	-	
Azinphos-methyl	86-50-0	No	No	Organics	-		1.00E-02	A	-	1.04E+00	1.04E+00 nc
Azobenzene	103-33-3	No	Yes	Organics	3.10E-05	I	-		9.06E-02	-	9.06E-02 ca
Azodicarbonamide	123-77-3	No	No	Organics	-		7.00E-06	P	-	7.30E-04	7.30E-04 nc
Barium	7440-39-3	No	No	Inorganics	-		5.00E-04	H	-	5.21E-02	5.21E-02 nc
Benfluralin	1861-40-1	No	Yes	Organics	-		-		-	-	
Benomyl	17804-35-2	No	No	Organics	-		-		-	-	
Bensulfuron-methyl	83055-99-6	No	No	Organics	-		-		-	-	
Bentazon	25057-89-0	No	No	Organics	-		-		-	-	
Benz[a]anthracene	56-55-3	Yes	Yes	Organics	6.00E-05	E	-		1.69E-02	-	1.69E-02 ca
Benzaldehyde	100-52-7	No	Yes	Organics	-		-		-	-	
Benzene	71-43-2	No	Yes	Organics	7.80E-06	I	3.00E-02	I	3.60E-01	3.13E+00	3.60E-01 ca**
Benzenediamine-2-methyl sulfate, 1,4-	6369-59-1	No	No	Organics	-		-		-	-	
Benzenethiol	108-98-5	No	Yes	Organics	-		-		-	-	
Benzidine	92-87-5	Yes	No	Organics	6.70E-02	I	-		1.51E-05	-	1.51E-05 ca
Benzo(e)pyrene	192-97-2	No	No	Organics	-		2.00E-06	X	-	2.09E-04	2.09E-04 nc
Benzo(j)fluoranthene	205-82-3	No	No	Organics	1.10E-04	C	-		2.55E-02	-	2.55E-02 ca
Benzo[a]pyrene	50-32-8	Yes	No	Organics	6.00E-04	I	2.00E-06	I	1.69E-03	2.09E-04	2.09E-04 nc
Benzo[b]fluoranthene	205-99-2	Yes	No	Organics	6.00E-05	E	-		1.69E-02	-	1.69E-02 ca
Benzo[k]fluoranthene	207-08-9	Yes	No	Organics	6.00E-06	E	-		1.69E-01	-	1.69E-01 ca
Benzoic Acid	65-85-0	No	No	Organics	-		-		-	-	

Benzotrichloride	98-07-7	No	Yes	Organics	-		-		-	-	
Benzyl Alcohol	100-51-6	No	No	Organics	-		-		-	-	
Benzyl Chloride	100-44-7	No	Yes	Organics	4.90E-05	C	1.00E-03	P	5.73E-02	1.04E-01	5.73E-02 ca**
Beryllium and compounds	7440-41-7	No	No	Inorganics	2.40E-03	I	2.00E-05	I	1.17E-03	2.09E-03	1.17E-03 ca**
Bifenox	42576-02-3	No	No	Organics	-		-		-	-	
Biphenthrin	82657-04-3	No	No	Organics	-		-		-	-	
Biphenyl, 1,1'-	92-52-4	No	Yes	Organics	-		4.00E-04	X	-	4.17E-02	4.17E-02 nc
Bis(2-chloro-1-methylethyl) ether	108-60-1	No	Yes	Organics	-		-		-	-	
Bis(2-chloroethoxy)methane	111-91-1	No	No	Organics	-		-		-	-	
Bis(2-chloroethyl)ether	111-44-4	No	Yes	Organics	3.30E-04	I	-		8.51E-03	-	8.51E-03 ca
Bis(2-ethylhexyl)phthalate	117-81-7	No	No	Organics	2.40E-06	C	-		1.17E+00	-	1.17E+00 ca
Bis(chloromethyl)ether	542-88-1	No	Yes	Organics	6.20E-02	I	-		4.53E-05	-	4.53E-05 ca
Bis(trifluoromethylsulfonyl)amine (TFSI)	82113-65-3	No	Yes	Organics	-		-		-	-	
Bisphenol A	80-05-7	No	No	Organics	-		-		-	-	
Boron And Borates Only	7440-42-8	No	No	Inorganics	-		2.00E-02	H	-	2.09E+00	2.09E+00 nc
Boron Trichloride	10294-34-5	No	Yes	Inorganics	-		2.00E-02	P	-	2.09E+00	2.09E+00 nc
Boron Trifluoride	7637-07-2	No	Yes	Inorganics	-		1.30E-02	C	-	1.36E+00	1.36E+00 nc
Bromate	15541-45-4	No	No	Inorganics	1.40E-04	C	-		2.01E-02	-	2.01E-02 ca
Bromo-2-chloroethane, 1-	107-04-0	No	Yes	Organics	-		6.00E-05	X	-	6.26E-03	6.26E-03 nc
Bromo-3-fluorobenzene, 1-	1073-06-9	No	Yes	Organics	-		-		-	-	
Bromo-4-fluorobenzene, 1-	460-00-4	No	Yes	Organics	-		-		-	-	
Bromoacetic acid	79-08-3	No	No	Organics	-		-		-	-	
Bromobenzene	108-86-1	No	Yes	Organics	-		6.00E-02	I	-	6.26E+00	6.26E+00 nc
Bromochloromethane	74-97-5	No	Yes	Organics	-		4.00E-02	X	-	4.17E+00	4.17E+00 nc
Bromodichloromethane	75-27-4	No	Yes	Organics	3.70E-05	C	-		7.59E-02	-	7.59E-02 ca
Bromoform	75-25-2	No	Yes	Organics	1.10E-06	I	-		2.55E+00	-	2.55E+00 ca
Bromomethane	74-83-9	No	Yes	Organics	-		5.00E-03	I	-	5.21E-01	5.21E-01 nc
Bromophos	2104-96-3	No	Yes	Organics	-		-		-	-	
Bromopropane, 1-	106-94-5	No	Yes	Organics	3.70E-06	C	1.00E-01	A	7.59E-01	1.04E+01	7.59E-01 ca*
Bromoxynil	1689-84-5	No	No	Organics	-		-		-	-	
Bromoxynil Octanoate	1689-99-2	No	Yes	Organics	-		-		-	-	
Butadiene, 1,3-	106-99-0	No	Yes	Organics	3.00E-05	I	2.00E-03	I	9.36E-02	2.09E-01	9.36E-02 ca**
Butanol, N-	71-36-3	No	Yes	Organics	-		-		-	-	
Butyl Alcohol, t-	75-65-0	No	Yes	Organics	-		5.00E+00	I	-	5.21E+02	5.21E+02 nc
Butyl Benzyl Phthalate	85-68-7	No	No	Organics	-		-		-	-	

Butyl alcohol, sec-	78-92-2	No	Yes	Organics	-		3.00E+01	P	-	3.13E+03	3.13E+03 nc
Butylate	2008-41-5	No	Yes	Organics	-		-		-	-	
Butylated hydroxyanisole	25013-16-5	No	No	Organics	5.70E-08	C	-		4.93E+01	-	4.93E+01 ca
Butylated hydroxytoluene	128-37-0	No	No	Organics	-		-		-	-	
Butylbenzene, n-	104-51-8	No	Yes	Organics	-		-		-	-	
Butylbenzene, sec-	135-98-8	No	Yes	Organics	-		-		-	-	
Butylbenzene, tert-	98-06-6	No	Yes	Organics	-		-		-	-	
Butylphthalyl Butylglycolate	85-70-1	No	No	Organics	-		-		-	-	
Cacodylic Acid	75-60-5	No	No	Organics	-		-		-	-	
Cadmium (Diet)	7440-43-9	No	No	Inorganics	1.80E-03	I	1.00E-05	A	1.56E-03	1.04E-03	1.04E-03 nc
Cadmium (Water)	7440-43-9	No	No	Inorganics	1.80E-03	I	1.00E-05	A	1.56E-03	1.04E-03	1.04E-03 nc
Calcium Cyanide	592-01-8	No	No	Inorganics	-		9.00E-03	C	-	9.39E-01	9.39E-01 nc
Caprolactam	105-60-2	No	No	Organics	-		2.20E-03	C	-	2.29E-01	2.29E-01 nc
Captafol	2425-06-1	No	No	Organics	4.30E-05	C	-		6.53E-02	-	6.53E-02 ca
Captan	133-06-2	No	No	Organics	6.60E-07	C	-		4.25E+00	-	4.25E+00 ca
Carbaryl	63-25-2	No	No	Organics	-		-		-	-	
Carbofuran	1563-66-2	No	No	Organics	-		-		-	-	
Carbon Disulfide	75-15-0	No	Yes	Organics	-		7.00E-01	I	-	7.30E+01	7.30E+01 nc
Carbon Tetrachloride	56-23-5	No	Yes	Organics	6.00E-06	I	1.00E-01	I	4.68E-01	1.04E+01	4.68E-01 ca*
Carbonyl Sulfide	463-58-1	No	Yes	Organics	-		1.00E-01	P	-	1.04E+01	1.04E+01 nc
Carbosulfan	55285-14-8	No	No	Organics	-		-		-	-	
Carboxin	5234-68-4	No	No	Organics	-		-		-	-	
Ceric oxide	1306-38-3	No	No	Inorganics	-		9.00E-04	I	-	9.39E-02	9.39E-02 nc
Chloral Hydrate	302-17-0	No	Yes	Organics	-		-		-	-	
Chloramben	133-90-4	No	No	Organics	-		-		-	-	
Chloranil	118-75-2	No	No	Organics	-		-		-	-	
Chlordane (alpha)	5103-71-9	No	Yes	Organics	-		-		-	-	
Chlordane (gamma)	5103-74-2	No	Yes	Organics	-		-		-	-	
Chlordane (technical mixture)	12789-03-6	No	Yes	Organics	1.00E-04	I	7.00E-04	I	2.81E-02	7.30E-02	2.81E-02 ca**
Chlordecone (Kepone)	143-50-0	No	No	Organics	4.60E-03	C	-		6.10E-04	-	6.10E-04 ca
Chlorfenvinphos	470-90-6	No	No	Organics	-		-		-	-	
Chlorimuron, Ethyl-	90982-32-4	No	No	Organics	-		-		-	-	
Chlorine	7782-50-5	No	Yes	Inorganics	-		1.45E-04	A	-	1.51E-02	1.51E-02 nc
Chlorine Dioxide	10049-04-4	No	Yes	Inorganics	-		2.00E-04	I	-	2.09E-02	2.09E-02 nc
Chlorite (Sodium Salt)	7758-19-2	No	No	Inorganics	-		-		-	-	
Chloro-1,1-difluoroethane, 1-	75-68-3	No	Yes	Organics	-		5.00E+01	I	-	5.21E+03	5.21E+03 nc
Chloro-1,3-butadiene, 2- (Chloroprene)	126-99-8	No	Yes	Organics	3.00E-04	I	2.00E-02	I	9.36E-03	2.09E+00	9.36E-03 ca
Chloro-2-methylaniline HCl, 4-	3165-93-3	No	No	Organics	-		-		-	-	
Chloro-2-methylaniline, 4-	95-69-2	No	No	Organics	7.70E-05	C	-		3.65E-02	-	3.65E-02 ca
Chloroacetaldehyde, 2-	107-20-0	No	Yes	Organics	-		-		-	-	
Chloroacetic Acid	79-11-8	No	No	Organics	-		-		-	-	

Chloroacetophenone, 2-	532-27-4	No	No	Organics	-		3.00E-05	I	-	3.13E-03	3.13E-03 nc
Chloroaniline, p-	106-47-8	No	No	Organics	-		-		-	-	
Chlorobenzene	108-90-7	No	Yes	Organics	-		5.00E-02	P	-	5.21E+00	5.21E+00 nc
Chlorobenzene sulfonic acid, p-	98-66-8	No	No	Organics	-		-		-	-	
Chlorobenzilate	510-15-6	No	No	Organics	3.10E-05	C	-		9.06E-02	-	9.06E-02 ca
Chlorobenzoic Acid, p-	74-11-3	No	No	Organics	-		-		-	-	
Chlorobenzotrifluoride, 4-	98-56-6	No	Yes	Organics	8.60E-06	C	3.00E-01	P	3.26E-01	3.13E+01	3.26E-01 ca*
Chlorobutane, 1-	109-69-3	No	Yes	Organics	-		-		-	-	
Chlorodifluoromethane	75-45-6	No	Yes	Organics	-		5.00E+01	I	-	5.21E+03	5.21E+03 nc
Chloroethanol, 2-	107-07-3	No	Yes	Organics	-		-		-	-	
Chloroform	67-66-3	No	Yes	Organics	2.30E-05	I	9.77E-02	A	1.22E-01	1.02E+01	1.22E-01 ca*
Chloromethane	74-87-3	No	Yes	Organics	-		9.00E-02	I	-	9.39E+00	9.39E+00 nc
Chloromethyl Methyl Ether	107-30-2	No	Yes	Organics	6.90E-04	C	-		4.07E-03	-	4.07E-03 ca
Chloronaphthalene, Beta-	91-58-7	No	Yes	Organics	-		-		-	-	
Chloronitrobenzene, o-	88-73-3	No	No	Organics	-		1.00E-05	X	-	1.04E-03	1.04E-03 nc
Chloronitrobenzene, p-	100-00-5	No	No	Organics	-		2.00E-03	P	-	2.09E-01	2.09E-01 nc
Chlorophenol, 2-	95-57-8	No	Yes	Organics	-		-		-	-	
Chloropicrin	76-06-2	No	Yes	Organics	-		4.00E-04	C	-	4.17E-02	4.17E-02 nc
Chlorothalonil	1897-45-6	No	No	Organics	-		-		-	-	
Chlorotoluene, o-	95-49-8	No	Yes	Organics	-		-		-	-	
Chlorotoluene, p-	106-43-4	No	Yes	Organics	-		-		-	-	
Chlorozotocin	54749-90-5	No	No	Organics	6.90E-02	C	-		4.07E-05	-	4.07E-05 ca
Chlorpropham	101-21-3	No	No	Organics	-		-		-	-	
Chlorpyrifos	2921-88-2	No	No	Organics	-		-		-	-	
Chlorpyrifos Methyl	5598-13-0	No	No	Organics	-		-		-	-	
Chlorsulfuron	64902-72-3	No	No	Organics	-		-		-	-	
Chlorthal-dimethyl	1861-32-1	No	No	Organics	-		-		-	-	
Chlorthiophos	60238-56-4	No	No	Organics	-		-		-	-	
Chromium(III) (Soluble Compounds)	16065-83-1	No	No	Inorganics	-		6.00E-05	C	-	6.26E-03	6.26E-03 nc
Chromium(III), Insoluble Salts	16065-83-1	No	No	Inorganics	-		-		-	-	
Chromium(VI)	18540-29-9	Yes	No	Inorganics	8.40E-02	G	1.00E-04	I	1.21E-05	1.04E-02	1.21E-05 ca
Chrysene	218-01-9	Yes	No	Organics	6.00E-07	E	-		1.69E+00	-	1.69E+00 ca
Clofentezine	74115-24-5	No	No	Organics	-		-		-	-	
Cobalt	7440-48-4	No	No	Inorganics	9.00E-03	P	6.00E-06	P	3.12E-04	6.26E-04	3.12E-04 ca**
Coke Oven Emissions	NA	Yes	Yes	Organics	6.20E-04	I	-		1.64E-03	-	1.64E-03 ca
Copper	7440-50-8	No	No	Inorganics	-		-		-	-	
Copper Cyanide	544-92-3	No	No	Inorganics	-		-		-	-	
Cresol, m-	108-39-4	No	No	Organics	-		6.00E-01	C	-	6.26E+01	6.26E+01 nc
Cresol, o-	95-48-7	No	No	Organics	-		6.00E-01	C	-	6.26E+01	6.26E+01 nc

Cresol, p-	106-44-5	No	No	Organics	-		6.00E-01	C	-	6.26E+01	6.26E+01 nc
Cresol, p-chloro-m-	59-50-7	No	No	Organics	-		-		-	-	
Cresols	1319-77-3	No	No	Organics	-		6.00E-01	C	-	6.26E+01	6.26E+01 nc
Crotonaldehyde, trans-	123-73-9	No	Yes	Organics	-		-		-	-	
Cumene	98-82-8	No	Yes	Organics	-		4.00E-01	I	-	4.17E+01	4.17E+01 nc
Cupferron	135-20-6	No	No	Organics	6.30E-05	C	-		4.46E-02	-	4.46E-02 ca
Cyanazine	21725-46-2	No	No	Organics	-		-		-	-	
Cyanide (CN-)	57-12-5	No	Yes	Inorganics	-		8.00E-04	G	-	8.34E-02	8.34E-02 nc
Cyanogen	460-19-5	No	Yes	Inorganics	-		-		-	-	
Cyanogen Bromide	506-68-3	No	Yes	Inorganics	-		-		-	-	
Cyanogen Chloride	506-77-4	No	Yes	Inorganics	-		-		-	-	
Cyclohexane	110-82-7	No	Yes	Organics	-		6.00E+00	I	-	6.26E+02	6.26E+02 nc
Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	87-84-3	No	No	Organics	-		-		-	-	
Cyclohexanone	108-94-1	No	Yes	Organics	-		7.00E-01	P	-	7.30E+01	7.30E+01 nc
Cyclohexene	110-83-8	No	Yes	Organics	-		1.00E+00	X	-	1.04E+02	1.04E+02 nc
Cyclohexylamine	108-91-8	No	Yes	Organics	-		-		-	-	
Cyfluthrin	68359-37-5	No	No	Organics	-		-		-	-	
Cyromazine	66215-27-8	No	No	Organics	-		-		-	-	
Dalapon	75-99-0	No	No	Organics	-		-		-	-	
Daminozide	1596-84-5	No	No	Organics	5.10E-06	C	-		5.51E-01	-	5.51E-01 ca
Decabromodiphenyl ether, 2,2',3,3',4,4',5,5',6,6'- (BDE-209)	1163-19-5	No	No	Organics	-		-		-	-	
Demeton	8065-48-3	No	No	Organics	-		-		-	-	
Di(2-ethylhexyl)adipate	103-23-1	No	No	Organics	-		-		-	-	
Diallate	2303-16-4	No	No	Organics	-		-		-	-	
Diazinon	333-41-5	No	No	Organics	-		-		-	-	
Dibenz[a,h]anthracene	53-70-3	Yes	No	Organics	6.00E-04	E	-		1.69E-03	-	1.69E-03 ca
Dibenzo(a,e)pyrene	192-65-4	No	No	Organics	1.10E-03	C	-		2.55E-03	-	2.55E-03 ca
Dibenzofuran	132-64-9	No	Yes	Organics	-		-		-	-	
Dibromo-3-chloropropane, 1,2-	96-12-8	Yes	Yes	Organics	6.00E-03	P	2.00E-04	I	1.69E-04	2.09E-02	1.69E-04 ca
Dibromoacetic acid	631-64-1	No	No	Organics	-		-		-	-	
Dibromobenzene, 1,3-	108-36-1	No	Yes	Organics	-		-		-	-	
Dibromobenzene, 1,4-	106-37-6	No	Yes	Organics	-		-		-	-	
Dibromochloromethane	124-48-1	No	Yes	Organics	-		-		-	-	
Dibromoethane, 1,2-	106-93-4	No	Yes	Organics	6.00E-04	I	9.00E-03	I	4.68E-03	9.39E-01	4.68E-03 ca
Dibromomethane (Methylene Bromide)	74-95-3	No	Yes	Organics	-		4.00E-03	X	-	4.17E-01	4.17E-01 nc
Dibutyl Phthalate	84-74-2	No	No	Organics	-		-		-	-	
Dibutyltin Compounds	NA	No	No	Organics	-		-		-	-	
Dicamba	1918-00-9	No	No	Organics	-		-		-	-	
Dichloro-2-butene, 1,4-	764-41-0	No	Yes	Organics	4.20E-03	P	-		6.68E-04	-	6.68E-04 ca
Dichloro-2-butene, cis-1,4-	1476-11-5	No	Yes	Organics	4.20E-03	P	-		6.68E-04	-	6.68E-04 ca
Dichloro-2-butene, trans-1,4-	110-57-6	No	Yes	Organics	4.20E-03	P	-		6.68E-04	-	6.68E-04 ca
Dichloroacetic Acid	79-43-6	No	No	Organics	-		-		-	-	

Dichlorobenzene, 1,2-	95-50-1	No	Yes	Organics	-		2.00E-01	H	-	2.09E+01	2.09E+01 nc
Dichlorobenzene, 1,4-	106-46-7	No	Yes	Organics	1.10E-05	C	8.00E-01	I	2.55E-01	8.34E+01	2.55E-01 ca
Dichlorobenzidine, 3,3'-	91-94-1	No	No	Organics	3.40E-04	C	-		8.26E-03	-	8.26E-03 ca
Dichlorobenzophenone, 4,4'-	90-98-2	No	No	Organics	-		-		-	-	
Dichlorodifluoromethane	75-71-8	No	Yes	Organics	-		1.00E-01	X	-	1.04E+01	1.04E+01 nc
Dichlorodiphenyldichloroethane, p,p'- (DDD)	72-54-8	No	No	Organics	6.90E-05	C	-		4.07E-02	-	4.07E-02 ca
Dichlorodiphenyldichloroethylene, p,p'- (DDE)	72-55-9	No	Yes	Organics	9.70E-05	C	-		2.89E-02	-	2.89E-02 ca
Dichlorodiphenyltrichloroethane, p,p'- (DDT)	50-29-3	No	No	Organics	9.70E-05	I	-		2.89E-02	-	2.89E-02 ca
Dichloroethane, 1,1-	75-34-3	No	Yes	Organics	1.60E-06	C	-		1.75E+00	-	1.75E+00 ca
Dichloroethane, 1,2-	107-06-2	No	Yes	Organics	2.60E-05	I	7.00E-03	P	1.08E-01	7.30E-01	1.08E-01 ca**
Dichloroethylene, 1,1-	75-35-4	No	Yes	Organics	-		2.00E-01	I	-	2.09E+01	2.09E+01 nc
Dichloroethylene, cis-1,2-	156-59-2	No	Yes	Organics	-		4.00E-02	X	-	4.17E+00	4.17E+00 nc
Dichloroethylene, trans-1,2-	156-60-5	No	Yes	Organics	-		4.00E-02	X	-	4.17E+00	4.17E+00 nc
Dichlorophenol, 2,4-	120-83-2	No	No	Organics	-		-		-	-	
Dichlorophenoxy Acetic Acid, 2,4-	94-75-7	No	No	Organics	-		-		-	-	
Dichloropropane, 1,2-	78-87-5	No	Yes	Organics	3.70E-06	P	4.00E-03	I	7.59E-01	4.17E-01	4.17E-01 nc
Dichloropropane, 1,3-	142-28-9	No	Yes	Organics	-		-		-	-	
Dichloropropanol, 2,3-	616-23-9	No	No	Organics	-		-		-	-	
Dichloropropene, 1,3-	542-75-6	No	Yes	Organics	4.00E-06	I	2.00E-02	I	7.02E-01	2.09E+00	7.02E-01 ca**
Dichlorvos	62-73-7	No	No	Organics	8.30E-05	C	5.00E-04	I	3.38E-02	5.21E-02	3.38E-02 ca**
Dicrotophos	141-66-2	No	No	Organics	-		-		-	-	
Dicyclopentadiene	77-73-6	No	Yes	Organics	-		3.00E-04	X	-	3.13E-02	3.13E-02 nc
Dieldrin	60-57-1	No	No	Organics	4.60E-03	I	-		6.10E-04	-	6.10E-04 ca
Diesel Engine Exhaust	NA	No	No	Organics	3.00E-04	C	5.00E-03	I	9.36E-03	5.21E-01	9.36E-03 ca*
Diethanolamine	111-42-2	No	No	Organics	-		2.00E-04	P	-	2.09E-02	2.09E-02 nc
Diethyl Phthalate	84-66-2	No	No	Organics	-		-		-	-	
Diethylene Glycol Monobutyl Ether	112-34-5	No	No	Organics	-		1.00E-04	P	-	1.04E-02	1.04E-02 nc
Diethylene Glycol Monoethyl Ether	111-90-0	No	No	Organics	-		3.00E-04	P	-	3.13E-02	3.13E-02 nc
Diethylformamide	617-84-5	No	Yes	Organics	-		-		-	-	
Diethylstilbestrol	56-53-1	No	No	Organics	1.00E-01	C	-		2.81E-05	-	2.81E-05 ca
Difenzoquat	43222-48-6	No	No	Organics	-		-		-	-	
Diflubenzuron	35367-38-5	No	No	Organics	-		-		-	-	
Difluoroethane, 1,1-	75-37-6	No	Yes	Organics	-		4.00E+01	I	-	4.17E+03	4.17E+03 nc
Difluoropropane, 2,2-	420-45-1	No	Yes	Organics	-		3.00E+01	X	-	3.13E+03	3.13E+03 nc
Dihydrosafrole	94-58-6	No	Yes	Organics	1.30E-05	C	-		2.16E-01	-	2.16E-01 ca

Diisopropyl Ether	108-20-3	No	Yes	Organics	-		7.00E-01	P	-	7.30E+01	7.30E+01 nc
Diisopropyl Methylphosphonate	1445-75-6	No	Yes	Organics	-		-		-	-	
Dimethipin	55290-64-7	No	No	Organics	-		-		-	-	
Dimethoate	60-51-5	No	No	Organics	-		-		-	-	
Dimethoxybenzidine, 3,3'-	119-90-4	No	No	Organics	1.40E-01	C	-		2.01E-05	-	2.01E-05 ca
Dimethyl methylphosphonate	756-79-6	No	No	Organics	-		-		-	-	
Dimethylamino azobenzene [p-]	60-11-7	No	No	Organics	1.30E-03	C	-		2.16E-03	-	2.16E-03 ca
Dimethylaniline HCl, 2,4-	21436-96-4	No	No	Organics	-		-		-	-	
Dimethylaniline, 2,4-	95-68-1	No	No	Organics	-		-		-	-	
Dimethylaniline, N,N-	121-69-7	No	Yes	Organics	-		-		-	-	
Dimethylbenz(a)anthracene, 7,12-	57-97-6	Yes	No	Organics	7.10E-02	C	-		1.43E-05	-	1.43E-05 ca
Dimethylbenzidine, 3,3'-	119-93-7	No	No	Organics	-		-		-	-	
Dimethylformamide	68-12-2	No	Yes	Organics	-		3.00E-02	I	-	3.13E+00	3.13E+00 nc
Dimethylhydrazine, 1,1-	57-14-7	No	Yes	Organics	-		2.00E-06	X	-	2.09E-04	2.09E-04 nc
Dimethylhydrazine, 1,2-	540-73-8	No	Yes	Organics	1.60E-01	C	-		1.75E-05	-	1.75E-05 ca
Dimethylphenol, 2,4-	105-67-9	No	No	Organics	-		-		-	-	
Dimethylphenol, 2,6-	576-26-1	No	No	Organics	-		-		-	-	
Dimethylphenol, 3,4-	95-65-8	No	No	Organics	-		-		-	-	
Dimethylterephthalate	120-61-6	No	Yes	Organics	-		-		-	-	
Dimethylvinylchloride	513-37-1	No	Yes	Organics	1.30E-05	C	-		2.16E-01	-	2.16E-01 ca
Dinitro-o-cresol, 4,6-	534-52-1	No	No	Organics	-		-		-	-	
Dinitro-o-cyclohexyl Phenol, 4,6-	131-89-5	No	No	Organics	-		-		-	-	
Dinitroaniline, 3,5-	618-87-1	No	No	Organics	-		2.00E-03	X	-	2.09E-01	2.09E-01 nc
Dinitrobenzene, 1,2-	528-29-0	No	No	Organics	-		-		-	-	
Dinitrobenzene, 1,3-	99-65-0	No	No	Organics	-		-		-	-	
Dinitrobenzene, 1,4-	100-25-4	No	No	Organics	-		-		-	-	
Dinitrophenol, 2,4-	51-28-5	No	No	Organics	-		-		-	-	
Dinitrotoluene Mixture, 2,4/2,6-	NA	No	No	Organics	-		-		-	-	
Dinitrotoluene, 2,4-	121-14-2	No	No	Organics	8.90E-05	C	-		3.15E-02	-	3.15E-02 ca
Dinitrotoluene, 2,6-	606-20-2	No	No	Organics	-		-		-	-	
Dinitrotoluene, 2-Amino-4,6-	35572-78-2	No	No	Organics	-		-		-	-	
Dinitrotoluene, 4-Amino-2,6-	19406-51-0	No	No	Organics	-		-		-	-	
Dinitrotoluene, Technical grade	25321-14-6	No	No	Organics	-		-		-	-	
Dinoseb	88-85-7	No	No	Organics	-		-		-	-	
Dioxane, 1,4-	123-91-1	No	Yes	Organics	5.00E-06	I	3.00E-02	I	5.62E-01	3.13E+00	5.62E-01 ca**
Diphenamid	957-51-7	No	No	Organics	-		-		-	-	
Diphenyl Ether	101-84-8	No	Yes	Organics	-		4.00E-04	X	-	4.17E-02	4.17E-02 nc
Diphenyl Sulfone	127-63-9	No	No	Organics	-		-		-	-	
Diphenylamine	122-39-4	No	No	Organics	-		-		-	-	
Diphenylhydrazine, 1,2-	122-66-7	No	No	Organics	2.20E-04	I	-		1.28E-02	-	1.28E-02 ca
Dipotassium phosphate	7758-11-4	No	No	Inorganics	-		-		-	-	
Diquat	2764-72-9	No	No	Organics	-		-		-	-	
Direct Black 38	1937-37-7	No	No	Organics	2.10E-03	C	-		1.34E-03	-	1.34E-03 ca
Direct Blue 6	2602-46-2	No	No	Organics	2.10E-03	C	-		1.34E-03	-	1.34E-03 ca
Direct Brown 95	16071-86-6	No	No	Organics	1.90E-03	C	-		1.48E-03	-	1.48E-03 ca
Disodium phosphate	7558-79-4	No	No	Inorganics	-		-		-	-	

Disulfoton	298-04-4	No	No	Organics	-		-		-	-	
Dithiane, 1,4-	505-29-3	No	Yes	Organics	-		-		-	-	
Diuron	330-54-1	No	No	Organics	-		-		-	-	
Dodine	2439-10-3	No	No	Organics	-		-		-	-	
EPTC	759-94-4	No	Yes	Organics	-		-		-	-	
Endosulfan	115-29-7	No	Yes	Organics	-		-		-	-	
Endosulfan Sulfate	1031-07-8	No	No	Organics	-		-		-	-	
Endothall	145-73-3	No	No	Organics	-		-		-	-	
Endrin	72-20-8	No	No	Organics	-		-		-	-	
Epichlorohydrin	106-89-8	No	Yes	Organics	1.20E-06	I	1.00E-03	I	2.34E+00	1.04E-01	1.04E-01 nc
Epoxybutane, 1,2-	106-88-7	No	Yes	Organics	-		2.00E-02	I	-	2.09E+00	2.09E+00 nc
Ethanol, 2-(2-methoxyethoxy)-	111-77-3	No	No	Organics	-		-		-	-	
Ethephon	16672-87-0	No	No	Organics	-		-		-	-	
Ethion	563-12-2	No	No	Organics	-		-		-	-	
Ethoxyethanol Acetate, 2-	111-15-9	No	Yes	Organics	-		6.00E-02	P	-	6.26E+00	6.26E+00 nc
Ethoxyethanol, 2-	110-80-5	No	Yes	Organics	-		4.00E-02	P	-	4.17E+00	4.17E+00 nc
Ethyl Acetate	141-78-6	No	Yes	Organics	-		7.00E-02	P	-	7.30E+00	7.30E+00 nc
Ethyl Acrylate	140-88-5	No	Yes	Organics	-		8.00E-03	P	-	8.34E-01	8.34E-01 nc
Ethyl Chloride	75-00-3	No	Yes	Organics	-		4.00E+00	P	-	4.17E+02	4.17E+02 nc
Ethyl Ether	60-29-7	No	Yes	Organics	-		-		-	-	
Ethyl Methacrylate	97-63-2	No	Yes	Organics	-		3.00E-01	P	-	3.13E+01	3.13E+01 nc
Ethyl Tertiary Butyl Ether (ETBE)	637-92-3	No	Yes	Organics	8.00E-08	I	4.00E+01	I	3.51E+01	4.17E+03	3.51E+01 ca
Ethyl-p-nitrophenyl Phosphonate	2104-64-5	No	No	Organics	-		-		-	-	
Ethylbenzene	100-41-4	No	Yes	Organics	2.50E-06	C	1.00E+00	I	1.12E+00	1.04E+02	1.12E+00 ca*
Ethylene Cyanohydrin	109-78-4	No	No	Organics	-		-		-	-	
Ethylene Diamine	107-15-3	No	Yes	Organics	-		-		-	-	
Ethylene Glycol	107-21-1	No	No	Organics	-		4.00E-01	C	-	4.17E+01	4.17E+01 nc
Ethylene Glycol Monobutyl Ether	111-76-2	No	No	Organics	-		1.60E+00	I	-	1.67E+02	1.67E+02 nc
Ethylene Oxide	75-21-8	Yes	Yes	Organics	3.00E-03	I	3.00E-02	C	3.38E-04	3.13E+00	3.38E-04 ca
Ethylene Thiourea	96-45-7	No	No	Organics	1.30E-05	C	-		2.16E-01	-	2.16E-01 ca
Ethyleneimine	151-56-4	No	Yes	Organics	1.90E-02	C	-		1.48E-04	-	1.48E-04 ca
Ethylphthalyl Ethyl Glycolate	84-72-0	No	No	Organics	-		-		-	-	
Fenamiphos	22224-92-6	No	No	Organics	-		-		-	-	
Fenpropathrin	39515-41-8	No	No	Organics	-		-		-	-	
Fenvalerate	51630-58-1	No	No	Organics	-		-		-	-	
Fluometuron	2164-17-2	No	No	Organics	-		-		-	-	
Fluoranthene	206-44-0	No	No	Organics	-		-		-	-	
Fluorene	86-73-7	No	Yes	Organics	-		-		-	-	

Fluoride	16984-48-8	No	No	Inorganics	-		1.30E-02	C	-	1.36E+00	1.36E+00 nc
Fluorine (Soluble Fluoride)	7782-41-4	No	No	Inorganics	-		1.30E-02	C	-	1.36E+00	1.36E+00 nc
Fluridone	59756-60-4	No	No	Organics	-		-		-	-	
Flurprimidol	56425-91-3	No	No	Organics	-		-		-	-	
Flusilazole	85509-19-9	No	No	Organics	-		-		-	-	
Flutolanil	66332-96-5	No	No	Organics	-		-		-	-	
Fluvalinate	69409-94-5	No	No	Organics	-		-		-	-	
Folpet	133-07-3	No	No	Organics	-		-		-	-	
Fomesafen	72178-02-0	No	No	Organics	-		-		-	-	
Fonofos	944-22-9	No	No	Organics	-		-		-	-	
Formaldehyde	50-00-0	No	Yes	Organics	1.30E-05	I	9.83E-03	A	2.16E-01	1.02E+00	2.16E-01 ca**
Formic Acid	64-18-6	No	Yes	Organics	-		3.00E-04	X	-	3.13E-02	3.13E-02 nc
Fosetyl-AL	39148-24-8	No	No	Organics	-		-		-	-	
Furan	110-00-9	No	Yes	Organics	-		-		-	-	
Furazolidone	67-45-8	No	No	Organics	-		-		-	-	
Furfural	98-01-1	No	Yes	Organics	-		5.00E-02	H	-	5.21E+00	5.21E+00 nc
Furium	531-82-8	No	No	Organics	4.30E-04	C	-		6.53E-03	-	6.53E-03 ca
Furmecyclox	60568-05-0	No	No	Organics	8.60E-06	C	-		3.26E-01	-	3.26E-01 ca
Glufosinate, Ammonium	77182-82-2	No	No	Organics	-		-		-	-	
Glutaraldehyde	111-30-8	No	No	Organics	-		8.00E-05	C	-	8.34E-03	8.34E-03 nc
Glycidaldehyde	765-34-4	No	Yes	Organics	-		1.00E-03	X	-	1.04E-01	1.04E-01 nc
Glyphosate	1071-83-6	No	No	Organics	-		-		-	-	
Guanidine	113-00-8	No	Yes	Organics	-		-		-	-	
Guanidine Chloride	50-01-1	No	No	Organics	-		-		-	-	
Guanidine Nitrate	506-93-4	No	No	Organics	-		-		-	-	
Haloxyfop, Methyl	69806-40-2	No	No	Organics	-		-		-	-	
Heptachlor	76-44-8	No	Yes	Organics	1.30E-03	I	-		2.16E-03	-	2.16E-03 ca
Heptachlor Epoxide	1024-57-3	No	Yes	Organics	2.60E-03	I	-		1.08E-03	-	1.08E-03 ca
Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	39635-31-9	No	Yes	Organics	1.14E-03	W	1.33E-03	W	2.46E-03	1.39E-01	2.46E-03 ca*
Heptachlorodibenzofuran, 1,2,3,4,6,7,8-	67562-39-4	No	Yes	Organics	3.80E-01	W	4.00E-06	W	7.39E-06	4.17E-04	7.39E-06 ca*
Heptanal, n-	111-71-7	No	Yes	Organics	-		3.00E-03	X	-	3.13E-01	3.13E-01 nc
Heptane, N-	142-82-5	No	Yes	Organics	-		4.00E-01	P	-	4.17E+01	4.17E+01 nc
Hexabromobenzene	87-82-1	No	Yes	Organics	-		-		-	-	
Hexabromodiphenyl ether, 2,2',4,4',5,5'- (BDE-153)	68631-49-2	No	No	Organics	-		-		-	-	
Hexachlorobenzene	118-74-1	No	Yes	Organics	4.60E-04	I	-		6.10E-03	-	6.10E-03 ca
Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	52663-72-6	No	Yes	Organics	1.14E-03	W	1.33E-03	W	2.46E-03	1.39E-01	2.46E-03 ca*
Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	69782-90-7	No	Yes	Organics	1.14E-03	W	1.33E-03	W	2.46E-03	1.39E-01	2.46E-03 ca*
Hexachlorobiphenyl, 2,3,3',4,4',5- (PCB 156)	38380-08-4	No	Yes	Organics	1.14E-03	W	1.33E-03	W	2.46E-03	1.39E-01	2.46E-03 ca*

Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	32774-16-6	No	Yes	Organics	1.14E+00	W	1.33E-06	W	2.46E-06	1.39E-04	2.46E-06 ca*
Hexachlorobutadiene	87-68-3	No	Yes	Organics	2.20E-05	I	-		1.28E-01	-	1.28E-01 ca
Hexachlorocyclohexane, Alpha-	319-84-6	No	No	Organics	1.80E-03	I	-		1.56E-03	-	1.56E-03 ca
Hexachlorocyclohexane, Beta-	319-85-7	No	No	Organics	5.30E-04	I	-		5.30E-03	-	5.30E-03 ca
Hexachlorocyclohexane, Gamma- (Lindane)	58-89-9	No	No	Organics	3.10E-04	C	-		9.06E-03	-	9.06E-03 ca
Hexachlorocyclohexane, Technical	608-73-1	No	No	Organics	5.10E-04	I	-		5.51E-03	-	5.51E-03 ca
Hexachlorocyclopentadiene	77-47-4	No	Yes	Organics	-		2.00E-04	I	-	2.09E-02	2.09E-02 nc
Hexachlorodibenzo-p-dioxin, 1,2,3,4,7,8-	39227-28-6	No	No	Organics	3.80E+00	W	4.00E-07	W	7.39E-07	4.17E-05	7.39E-07 ca*
Hexachlorodibenzo-p-dioxin, Mixture	34465-46-8	No	No	Organics	1.30E+00	I	-		2.16E-06	-	2.16E-06 ca
Hexachlorodibenzofuran, 1,2,3,4,7,8-	70648-26-9	No	Yes	Organics	3.80E+00	W	4.00E-07	W	7.39E-07	4.17E-05	7.39E-07 ca*
Hexachloroethane	67-72-1	No	Yes	Organics	1.10E-05	C	3.00E-02	I	2.55E-01	3.13E+00	2.55E-01 ca*
Hexachlorophene	70-30-4	No	No	Organics	-		-		-	-	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	No	Yes	Organics	-		-		-	-	
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	No	No	Organics	-		-		-	-	
Hexamethylene Diisocyanate, 1,6-	822-06-0	No	Yes	Organics	-		1.00E-05	I	-	1.04E-03	1.04E-03 nc
Hexamethylene diisocyanate biuret	4035-89-6	No	No	Organics	-		4.00E-04	C	-	4.17E-02	4.17E-02 nc
Hexamethylene diisocyanate isocyanurate	3779-63-3	No	No	Organics	-		4.00E-04	C	-	4.17E-02	4.17E-02 nc
Hexamethylphosphoramide	680-31-9	No	No	Organics	-		-		-	-	
Hexane, Commercial	NA	No	Yes	Organics	2.00E-07	X	6.00E-01	P	1.40E+01	6.26E+01	1.40E+01 ca**
Hexane, N-	110-54-3	No	Yes	Organics	-		7.00E-01	I	-	7.30E+01	7.30E+01 nc
Hexanedioic Acid	124-04-9	No	No	Organics	-		-		-	-	
Hexanol, 1-,2-ethyl- (2-Ethyl-1-hexanol)	104-76-7	No	Yes	Organics	-		4.00E-04	P	-	4.17E-02	4.17E-02 nc
Hexanone, 2-	591-78-6	No	Yes	Organics	-		3.00E-02	I	-	3.13E+00	3.13E+00 nc
Hexazinone	51235-04-2	No	No	Organics	-		-		-	-	
Hexythiazox	78587-05-0	No	No	Organics	-		-		-	-	
HpCDD, 1,2,3,4,6,7,8,-	35822-46-9	No	Yes	Organics	3.80E-01	W	4.00E-06	W	7.39E-06	4.17E-04	7.39E-06 ca*
HpCDF, 1,2,3,4,7,8,9-	55673-89-7	No	Yes	Organics	3.80E-01	W	4.00E-06	W	7.39E-06	4.17E-04	7.39E-06 ca*
HxCDD, 1,2,3,6,7,8-	57653-85-7	No	No	Organics	3.80E+00	W	4.00E-07	W	7.39E-07	4.17E-05	7.39E-07 ca*
HxCDD, 1,2,3,7,8,9-	19408-74-3	No	No	Organics	3.80E+00	W	4.00E-07	W	7.39E-07	4.17E-05	7.39E-07 ca*
HxCDF, 1,2,3,6,7,8-	57117-44-9	No	Yes	Organics	3.80E+00	W	4.00E-07	W	7.39E-07	4.17E-05	7.39E-07 ca*
HxCDF, 1,2,3,7,8,9-	72918-21-9	No	No	Organics	3.80E+00	W	4.00E-07	W	7.39E-07	4.17E-05	7.39E-07 ca*
HxCDF, 2,3,4,6,7,8-	60851-34-5	No	No	Organics	3.80E+00	W	4.00E-07	W	7.39E-07	4.17E-05	7.39E-07 ca*
Hydramethylnon	67485-29-4	No	No	Organics	-		-		-	-	

Hydrazine	302-01-2	No	Yes	Inorganics	4.90E-03	I	3.00E-05	P	5.73E-04	3.13E-03	5.73E-04 ca**
Hydrazine Sulfate	10034-93-2	No	No	Inorganics	4.90E-03	I	-		5.73E-04	-	5.73E-04 ca
Hydrogen Chloride	7647-01-0	No	Yes	Inorganics	-		2.00E-02	I	-	2.09E+00	2.09E+00 nc
Hydrogen Cyanide	74-90-8	No	Yes	Inorganics	-		8.00E-04	I	-	8.34E-02	8.34E-02 nc
Hydrogen Fluoride	7664-39-3	No	Yes	Inorganics	-		1.40E-02	C	-	1.46E+00	1.46E+00 nc
Hydrogen Sulfide	7783-06-4	No	Yes	Inorganics	-		2.00E-03	I	-	2.09E-01	2.09E-01 nc
Hydroquinone	123-31-9	No	No	Organics	-		-		-	-	
Imazalil	35554-44-0	No	No	Organics	-		-		-	-	
Imazaquin	81335-37-7	No	No	Organics	-		-		-	-	
Imazethapyr	81335-77-5	No	No	Organics	-		-		-	-	
Indeno[1,2,3-cd]pyrene	193-39-5	Yes	No	Organics	6.00E-05	E	-		1.69E-02	-	1.69E-02 ca
Iodine	7553-56-2	No	No	Inorganics	-		-		-	-	
Iprodione	36734-19-7	No	No	Organics	-		-		-	-	
Iron	7439-89-6	No	No	Inorganics	-		-		-	-	
Isobutyl Alcohol	78-83-1	No	Yes	Organics	-		4.00E-01	X	-	4.17E+01	4.17E+01 nc
Isophorone	78-59-1	No	No	Organics	-		2.00E+00	C	-	2.09E+02	2.09E+02 nc
Isopropalin	33820-53-0	No	Yes	Organics	-		-		-	-	
Isopropanol	67-63-0	No	Yes	Organics	-		2.00E-01	P	-	2.09E+01	2.09E+01 nc
Isopropyl Methyl Phosphonic Acid	1832-54-8	No	No	Organics	-		-		-	-	
Isoxaben	82558-50-7	No	No	Organics	-		-		-	-	
Jet propulsion fuel 7 (JP-7)	NA	No	Yes	Organics	-		3.00E-01	A	-	3.13E+01	3.13E+01 nc
Lactofen	77501-63-4	No	No	Organics	-		-		-	-	
Lactonitrile	78-97-7	No	No	Organics	-		-		-	-	
Lanthanum	7439-91-0	No	No	Inorganics	-		-		-	-	
Lanthanum Acetate Hydrate	100587-90-4	No	No	Organics	-		-		-	-	
Lanthanum Chloride Heptahydrate	10025-84-0	No	No	Inorganics	-		-		-	-	
Lanthanum Chloride, Anhydrous	10099-58-8	No	No	Inorganics	-		-		-	-	
Lanthanum Nitrate Hexahydrate	10277-43-7	No	No	Inorganics	-		-		-	-	
Lead Phosphate	7446-27-7	No	No	Inorganics	1.20E-05	C	-		2.34E-01	-	2.34E-01 ca
Lead acetate	301-04-2	No	No	Organics	8.00E-05	C	-		3.51E-02	-	3.51E-02 ca
Lead subacetate	1335-32-6	No	No	Organics	1.10E-05	C	-		2.55E-01	-	2.55E-01 ca
Lewisite	541-25-3	No	Yes	Organics	-		-		-	-	
Linuron	330-55-2	No	No	Organics	-		-		-	-	
Lithium	7439-93-2	No	No	Inorganics	-		-		-	-	
Lithium Perchlorate	7791-03-9	No	No	Inorganics	-		-		-	-	
Lithium bis[(trifluoromethyl)sulfonyl]azanide	90076-65-6	No	Yes	Organics	-		-		-	-	
MCPA	94-74-6	No	No	Organics	-		-		-	-	
MCPB	94-81-5	No	No	Organics	-		-		-	-	
MCPP	93-65-2	No	No	Organics	-		-		-	-	
Malathion	121-75-5	No	No	Organics	-		-		-	-	
Maleic Anhydride	108-31-6	No	No	Organics	-		7.00E-04	C	-	7.30E-02	7.30E-02 nc
Maleic Hydrazide	123-33-1	No	No	Organics	-		-		-	-	

Malononitrile	109-77-3	No	No	Organics	-		-		-	-	
Mancozeb	8018-01-7	No	No	Organics	-		-		-	-	
Maneb	12427-38-2	No	No	Organics	-		-		-	-	
Manganese (Diet)	7439-96-5	No	No	Inorganics	-		5.00E-05	I	-	5.21E-03	5.21E-03 nc
Manganese (Non-diet)	7439-96-5	No	No	Inorganics	-		5.00E-05	I	-	5.21E-03	5.21E-03 nc
Mephosfolan	950-10-7	No	No	Organics	-		-		-	-	
Mepiquat Chloride	24307-26-4	No	No	Organics	-		-		-	-	
Mercaptobenzothiazole, 2-	149-30-4	No	No	Organics	-		-		-	-	
Mercuric Chloride	7487-94-7	No	No	Inorganics	-		3.00E-04	G	-	3.13E-02	3.13E-02 nc
Mercury (elemental)	7439-97-6	No	Yes	Inorganics	-		3.00E-04	I	-	3.13E-02	3.13E-02 nc
Merphos	150-50-5	No	Yes	Organics	-		-		-	-	
Metalaxyl	57837-19-1	No	No	Organics	-		-		-	-	
Methacrylonitrile	126-98-7	No	Yes	Organics	-		3.00E-02	P	-	3.13E+00	3.13E+00 nc
Methamidophos	10265-92-6	No	No	Organics	-		-		-	-	
Methanol	67-56-1	No	Yes	Organics	-		2.00E+01	I	-	2.09E+03	2.09E+03 nc
Methidathion	950-37-8	No	No	Organics	-		-		-	-	
Methomyl	16752-77-5	No	No	Organics	-		-		-	-	
Methoxy-5-nitroaniline, 2-	99-59-2	No	No	Organics	-		-		-	-	
Methoxychlor	72-43-5	No	No	Organics	-		-		-	-	
Methoxyethanol Acetate, 2-	110-49-6	No	Yes	Organics	-		1.00E-03	P	-	1.04E-01	1.04E-01 nc
Methoxyethanol, 2-	109-86-4	No	Yes	Organics	-		7.00E-03	P	-	7.30E-01	7.30E-01 nc
Methyl Acetate	79-20-9	No	Yes	Organics	-		-		-	-	
Methyl Acrylate	96-33-3	No	Yes	Organics	-		2.00E-02	P	-	2.09E+00	2.09E+00 nc
Methyl Ethyl Ketone (2-Butanone)	78-93-3	No	Yes	Organics	-		5.00E+00	I	-	5.21E+02	5.21E+02 nc
Methyl Hydrazine	60-34-4	No	Yes	Organics	1.00E-03	X	2.00E-05	X	2.81E-03	2.09E-03	2.09E-03 nc
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1	No	Yes	Organics	-		3.00E+00	I	-	3.13E+02	3.13E+02 nc
Methyl Isocyanate	624-83-9	No	Yes	Organics	-		1.00E-03	C	-	1.04E-01	1.04E-01 nc
Methyl Mercury	22967-92-6	No	No	Inorganics	-		-		-	-	
Methyl Methacrylate	80-62-6	No	Yes	Organics	-		7.00E-01	I	-	7.30E+01	7.30E+01 nc
Methyl Parathion	298-00-0	No	No	Organics	-		-		-	-	
Methyl Phosphonic Acid	993-13-5	No	No	Organics	-		-		-	-	
Methyl Styrene (Mixed Isomers)	25013-15-4	No	Yes	Organics	-		4.00E-02	H	-	4.17E+00	4.17E+00 nc
Methyl methanesulfonate	66-27-3	No	No	Organics	2.80E-05	C	-		1.00E-01	-	1.00E-01 ca
Methyl tert-Butyl Ether (MTBE)	1634-04-4	No	Yes	Organics	2.60E-07	C	3.00E+00	I	1.08E+01	3.13E+02	1.08E+01 ca*
Methyl-1,4-benzenediamine dihydrochloride, 2-	615-45-2	No	No	Organics	-		-		-	-	
Methyl-2-Pentanol, 4-	108-11-2	No	Yes	Organics	-		3.00E+00	X	-	3.13E+02	3.13E+02 nc
Methyl-5-Nitroaniline, 2-	99-55-8	No	No	Organics	-		-		-	-	
Methyl-N-nitro-N-nitrosoguanidine, N-	70-25-7	No	No	Organics	2.40E-03	C	-		1.17E-03	-	1.17E-03 ca
Methylaniline Hydrochloride, 2-	636-21-5	No	No	Organics	3.70E-05	C	-		7.59E-02	-	7.59E-02 ca
Methylarsonic acid	124-58-3	No	No	Organics	-		-		-	-	

Methylbenzene,1-4-diamine monohydrochloride, 2-	74612-12-7	No	No	Organics	-		-		-	-	
Methylbenzene-1,4-diamine sulfate, 2-	615-50-9	No	No	Organics	-		-		-	-	
Methylcholanthrene, 3-	56-49-5	Yes	No	Organics	6.30E-03	C	-		1.61E-04	-	1.61E-04 ca
Methylcyclohexane	108-87-2	No	Yes	Organics	-		9.50E-02	X	-	9.91E+00	9.91E+00 nc
Methylene Chloride	75-09-2	Yes	Yes	Organics	1.00E-08	I	6.00E-01	I	1.01E+02	6.26E+01	6.26E+01 nc
Methylene-bis(2-chloroaniline), 4,4'-	101-14-4	Yes	No	Organics	4.30E-04	C	-		2.36E-03	-	2.36E-03 ca
Methylene-bis(N,N-dimethyl) Aniline, 4,4'-	101-61-1	No	No	Organics	1.30E-05	C	-		2.16E-01	-	2.16E-01 ca
Methylenebisbenzenamine, 4,4'-	101-77-9	No	No	Organics	4.60E-04	C	2.00E-02	C	6.10E-03	2.09E+00	6.10E-03 ca
Methylenediphenyl Diisocyanate	101-68-8	No	No	Organics	-		6.00E-04	I	-	6.26E-02	6.26E-02 nc
Methylnaphthalene, 1-	90-12-0	No	Yes	Organics	-		-		-	-	
Methylnaphthalene, 2-	91-57-6	No	Yes	Organics	-		-		-	-	
Methylstyrene, Alpha-	98-83-9	No	Yes	Organics	-		-		-	-	
Metolachlor	51218-45-2	No	No	Organics	-		-		-	-	
Metribuzin	21087-64-9	No	No	Organics	-		-		-	-	
Metsulfuron-methyl	74223-64-6	No	No	Organics	-		-		-	-	
Midrange Aliphatic Hydrocarbon Streams	NA	No	Yes	Organics	4.50E-06	X	1.00E-01	P	6.24E-01	1.04E+01	6.24E-01 ca*
Mineral oils	8012-95-1	No	Yes	Organics	-		-		-	-	
Mirex	2385-85-5	No	Yes	Organics	5.10E-03	C	-		5.51E-04	-	5.51E-04 ca
Molinate	2212-67-1	No	No	Organics	-		-		-	-	
Molybdenum	7439-98-7	No	No	Inorganics	-		2.00E-03	A	-	2.09E-01	2.09E-01 nc
Monoaluminum phosphate	13530-50-2	No	No	Inorganics	-		-		-	-	
Monochloramine	10599-90-3	No	No	Inorganics	-		-		-	-	
Monomethylaniline	100-61-8	No	No	Organics	-		-		-	-	
Monopotassium phosphate	7778-77-0	No	No	Inorganics	-		-		-	-	
Monosodium phosphate	7558-80-7	No	No	Inorganics	-		-		-	-	
Myclobutanil	88671-89-0	No	No	Organics	-		-		-	-	
N,N'-Diphenyl-1,4-benzenediamine	74-31-7	No	No	Organics	-		-		-	-	
Naled	300-76-5	No	Yes	Organics	-		-		-	-	
Naphtha, High Flash Aromatic (HFAN)	64742-95-6	No	Yes	Organics	-		1.00E-01	P	-	1.04E+01	1.04E+01 nc
Naphthalene	91-20-3	No	Yes	Organics	3.40E-05	C	3.00E-03	I	8.26E-02	3.13E-01	8.26E-02 ca**
Naphthylamine, 2-	91-59-8	No	No	Organics	0.00E+00	C	-		-	-	
Napropamide	15299-99-7	No	No	Organics	-		-		-	-	
Nickel Acetate	373-02-4	No	No	Organics	2.60E-04	C	1.40E-05	C	1.08E-02	1.46E-03	1.46E-03 nc
Nickel Carbonate	3333-67-3	No	No	Organics	2.60E-04	C	1.40E-05	C	1.08E-02	1.46E-03	1.46E-03 nc
Nickel Carbonyl	13463-39-3	No	Yes	Organics	2.60E-04	C	1.40E-05	C	1.08E-02	1.46E-03	1.46E-03 nc
Nickel Hydroxide	12054-48-7	No	No	Inorganics	2.60E-04	C	1.40E-05	C	1.08E-02	1.46E-03	1.46E-03 nc
Nickel Oxide	1313-99-1	No	No	Inorganics	2.60E-04	C	2.00E-05	C	1.08E-02	2.09E-03	2.09E-03 nc
Nickel Refinery Dust	NA	No	No	Inorganics	2.40E-04	I	1.40E-05	C	1.17E-02	1.46E-03	1.46E-03 nc
Nickel Soluble Salts	7440-02-0	No	No	Inorganics	2.60E-04	C	1.40E-05	C	1.08E-02	1.46E-03	1.46E-03 nc
Nickel Subsulfide	12035-72-2	No	No	Inorganics	4.80E-04	I	1.40E-05	C	5.85E-03	1.46E-03	1.46E-03 nc
Nickelocene	1271-28-9	No	No	Organics	2.60E-04	C	1.40E-05	C	1.08E-02	1.46E-03	1.46E-03 nc
Nitrate (measured as nitrogen)	14797-55-8	No	No	Inorganics	-		-		-	-	
Nitrite (measured as nitrogen)	14797-65-0	No	No	Inorganics	-		-		-	-	
Nitroaniline, 2-	88-74-4	No	No	Organics	-		5.00E-05	X	-	5.21E-03	5.21E-03 nc

Nitroaniline, 4-	100-01-6	No	No	Organics	-		6.00E-03	P	-	6.26E-01	6.26E-01 nc
Nitrobenzene	98-95-3	No	Yes	Organics	4.00E-05	I	9.00E-03	I	7.02E-02	9.39E-01	7.02E-02 ca*
Nitrocellulose	9004-70-0	No	No	Organics	-		-		-	-	
Nitrofurantoin	67-20-9	No	No	Organics	-		-		-	-	
Nitrofurazone	59-87-0	No	No	Organics	3.70E-04	C	-		7.59E-03	-	7.59E-03 ca
Nitroglycerin	55-63-0	No	No	Organics	-		-		-	-	
Nitroguanidine	556-88-7	No	No	Organics	-		-		-	-	
Nitromethane	75-52-5	No	Yes	Organics	8.80E-06	P	5.00E-03	P	3.19E-01	5.21E-01	3.19E-01 ca**
Nitropropane, 2-	79-46-9	No	Yes	Organics	5.80E-04	X	2.00E-02	I	4.84E-03	2.09E+00	4.84E-03 ca
Nitropyrene, 4-	57835-92-4	No	No	Organics	1.10E-04	C	-		2.55E-02	-	2.55E-02 ca
Nitroso-N-ethylurea, N-	759-73-9	Yes	No	Organics	7.70E-03	C	-		1.32E-04	-	1.32E-04 ca
Nitroso-N-methylurea, N-	684-93-5	Yes	No	Organics	3.40E-02	C	-		2.98E-05	-	2.98E-05 ca
Nitroso-di-N-butylamine, N-	924-16-3	No	Yes	Organics	1.60E-03	I	-		1.75E-03	-	1.75E-03 ca
Nitroso-di-N-propylamine, N-	621-64-7	No	No	Organics	2.00E-03	C	-		1.40E-03	-	1.40E-03 ca
Nitrosodiethanolamine, N-	1116-54-7	No	No	Organics	8.00E-04	C	-		3.51E-03	-	3.51E-03 ca
Nitrosodiethylamine, N-	55-18-5	Yes	No	Organics	4.30E-02	I	-		2.36E-05	-	2.36E-05 ca
Nitrosodimethylamine, N-	62-75-9	Yes	Yes	Organics	1.40E-02	I	4.00E-05	X	7.24E-05	4.17E-03	7.24E-05 ca*
Nitrosodiphenylamine, N-	86-30-6	No	No	Organics	2.60E-06	C	-		1.08E+00	-	1.08E+00 ca
Nitrosomethylethylamine, N-	10595-95-6	No	Yes	Organics	6.30E-03	C	-		4.46E-04	-	4.46E-04 ca
Nitrosomorpholine [N-]	59-89-2	No	No	Organics	1.90E-03	C	-		1.48E-03	-	1.48E-03 ca
Nitrosopiperidine [N-]	100-75-4	No	No	Organics	2.70E-03	C	-		1.04E-03	-	1.04E-03 ca
Nitrosopyrrolidine, N-	930-55-2	No	No	Organics	6.10E-04	I	-		4.60E-03	-	4.60E-03 ca
Nitrotoluene, m-	99-08-1	No	No	Organics	-		-		-	-	
Nitrotoluene, o-	88-72-2	No	Yes	Organics	-		-		-	-	
Nitrotoluene, p-	99-99-0	No	No	Organics	-		-		-	-	
Nonane, n-	111-84-2	No	Yes	Organics	-		2.00E-02	P	-	2.09E+00	2.09E+00 nc
Norflurazon	27314-13-2	No	No	Organics	-		-		-	-	
OCDD	3268-87-9	No	No	Organics	1.14E-02	W	1.33E-04	W	2.46E-04	1.39E-02	2.46E-04 ca*
OCDF	39001-02-0	No	No	Organics	1.14E-02	W	1.33E-04	W	2.46E-04	1.39E-02	2.46E-04 ca*
Octabromodiphenyl Ether	32536-52-0	No	No	Organics	-		-		-	-	
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	2691-41-0	No	No	Organics	-		-		-	-	
Octamethylpyrophosphoramide	152-16-9	No	No	Organics	-		-		-	-	
Octyl Phthalate, di-N-	117-84-0	No	No	Organics	-		-		-	-	
Oryzalin	19044-88-3	No	No	Organics	-		-		-	-	
Oxadiazon	19666-30-9	No	No	Organics	-		-		-	-	
Oxamyl	23135-22-0	No	No	Organics	-		-		-	-	
Oxyfluorfen	42874-03-3	No	No	Organics	-		-		-	-	
Paclobutrazol	76738-62-0	No	No	Organics	-		-		-	-	
Paraquat Dichloride	1910-42-5	No	No	Organics	-		-		-	-	
Parathion	56-38-2	No	No	Organics	-		-		-	-	
PeCDF, 1,2,3,7,8-	57117-41-6	No	No	Organics	1.14E+00	W	1.33E-06	W	2.46E-06	1.39E-04	2.46E-06 ca*

PeCDF, 2,3,4,7,8-	57117-31-4	No	No	Organics	1.14E+01	W	1.33E-07	W	2.46E-07	1.39E-05	2.46E-07 ca*
Pebulate	1114-71-2	No	Yes	Organics	-		-		-	-	
Pendimethalin	40487-42-1	No	No	Organics	-		-		-	-	
Pentabromodiphenyl Ether	32534-81-9	No	Yes	Organics	-		-		-	-	
Pentabromodiphenyl ether, 2,2',4,4',5- (BDE-99)	60348-60-9	No	No	Organics	-		-		-	-	
Pentachlorobenzene	608-93-5	No	Yes	Organics	-		-		-	-	
Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	65510-44-3	No	Yes	Organics	1.14E-03	W	1.33E-03	W	2.46E-03	1.39E-01	2.46E-03 ca*
Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	31508-00-6	No	Yes	Organics	1.14E-03	W	1.33E-03	W	2.46E-03	1.39E-01	2.46E-03 ca*
Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	32598-14-4	No	Yes	Organics	1.14E-03	W	1.33E-03	W	2.46E-03	1.39E-01	2.46E-03 ca*
Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	74472-37-0	No	Yes	Organics	1.14E-03	W	1.33E-03	W	2.46E-03	1.39E-01	2.46E-03 ca*
Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	57465-28-8	No	Yes	Organics	3.80E+00	W	4.00E-07	W	7.39E-07	4.17E-05	7.39E-07 ca*
Pentachlorodibenzo-p-dioxin, 1,2,3,7,8-	40321-76-4	No	No	Organics	3.80E+01	W	4.00E-08	W	7.39E-08	4.17E-06	7.39E-08 ca*
Pentachloroethane	76-01-7	No	Yes	Organics	-		-		-	-	
Pentachloronitrobenzene	82-68-8	No	Yes	Organics	-		-		-	-	
Pentachlorophenol	87-86-5	No	No	Organics	5.10E-06	C	-		5.51E-01	-	5.51E-01 ca
Pentaerythritol tetranitrate (PETN)	78-11-5	No	No	Organics	-		-		-	-	
Pentamethylphosphoramide (PMPA)	10159-46-3	No	No	Organics	-		-		-	-	
Pentane, n-	109-66-0	No	Yes	Organics	-		1.00E+00	P	-	1.04E+02	1.04E+02 nc
Perchlorate and Perchlorate Salts	14797-73-0	No	No	Inorganics	-		-		-	-	
Perfluorobutanesulfonate	45187-15-3	No	No	Organics	-		-		-	-	
Perfluorobutanesulfonic acid (PFBS)	375-73-5	No	No	Organics	-		-		-	-	
Perfluorobutanoate	45048-62-2	No	Yes	Organics	-		-		-	-	
Perfluorobutanoic acid (PFBA)	375-22-4	No	Yes	Organics	-		-		-	-	
Perfluorododecanoic acid (PFDoDA)	307-55-1	No	No	Organics	-		-		-	-	
Perfluorohexanesulfonate	108427-53-8	No	No	Organics	-		-		-	-	
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	No	No	Organics	-		-		-	-	
Perfluorohexanoate	92612-52-7	No	No	Organics	-		-		-	-	
Perfluorohexanoic acid (PFHxA)	307-24-4	No	No	Organics	-		-		-	-	
Perfluorononanoate	72007-68-2	No	No	Organics	-		-		-	-	
Perfluorononanoic acid (PFNA)	375-95-1	No	No	Organics	-		-		-	-	
Perfluorooctadecanoic acid (PFODA)	16517-11-6	No	No	Organics	-		-		-	-	
Perfluorooctanesulfonate	45298-90-6	No	No	Organics	-		-		-	-	
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	No	No	Organics	-		-		-	-	
Perfluorooctanoate	45285-51-6	No	No	Organics	-		-		-	-	
Perfluorooctanoic acid (PFOA)	335-67-1	No	No	Organics	-		-		-	-	
Perfluoropropanoic acid (PFPrA)	422-64-0	No	Yes	Organics	-		-		-	-	
Perfluorotetradecanoic acid (PFTetA)	376-06-7	No	No	Organics	-		-		-	-	
Perfluoroundecanoic acid (PFUDA)	2058-94-8	No	No	Organics	-		-		-	-	
Permethrin	52645-53-1	No	No	Organics	-		-		-	-	
Perylene	198-55-0	No	No	Organics	-		2.00E-06	X	-	2.09E-04	2.09E-04 nc

Phenacetin	62-44-2	No	No	Organics	6.30E-07	C	-		4.46E+00	-	4.46E+00 ca
Phenmedipham	13684-63-4	No	No	Organics	-		-		-	-	
Phenol	108-95-2	No	No	Organics	-		2.00E-01	C	-	2.09E+01	2.09E+01 nc
Phenol, 2-(1-methylethoxy)-, methylcarbamate	114-26-1	No	No	Organics	-		-		-	-	
Phenothiazine	92-84-2	No	No	Organics	-		-		-	-	
Phenyl Isothiocyanate	103-72-0	No	Yes	Organics	-		-		-	-	
Phenylenediamine, m-	108-45-2	No	No	Organics	-		-		-	-	
Phenylenediamine, o-	95-54-5	No	No	Organics	-		-		-	-	
Phenylenediamine, p-	106-50-3	No	No	Organics	-		-		-	-	
Phenylmercuric Acetate	62-38-4	No	No	Organics	-		-		-	-	
Phenylphenol, 2-	90-43-7	No	No	Organics	-		-		-	-	
Phorate	298-02-2	No	No	Organics	-		-		-	-	
Phosgene	75-44-5	No	Yes	Organics	-		3.00E-04	I	-	3.13E-02	3.13E-02 nc
Phosmet	732-11-6	No	No	Organics	-		-		-	-	
Phosphine	7803-51-2	No	Yes	Inorganics	-		3.00E-04	I	-	3.13E-02	3.13E-02 nc
Phosphoric Acid	7664-38-2	No	No	Inorganics	-		1.00E-02	I	-	1.04E+00	1.04E+00 nc
Phosphoric acid, aluminum salt (1:1) [aluminum phosphate]	7784-30-7	No	No	Inorganics	-		-		-	-	
Phosphoric acid, aluminum sodium salt (1:X:X) [sodium aluminum phosphate acidic (acidic SALP)]	7785-88-8	No	No	Inorganics	-		-		-	-	
Phosphorus, White	7723-14-0	No	Yes	Inorganics	-		-		-	-	
Phthalic Acid, p-	100-21-0	No	No	Organics	-		-		-	-	
Phthalic Anhydride	85-44-9	No	No	Organics	-		2.00E-02	C	-	2.09E+00	2.09E+00 nc
Picloram	1918-02-1	No	No	Organics	-		-		-	-	
Picramic Acid (2-Amino-4,6-dinitrophenol)	96-91-3	No	No	Organics	-		-		-	-	
Picric Acid (2,4,6-Trinitrophenol)	88-89-1	No	No	Organics	-		-		-	-	
Pirimiphos, Methyl	29232-93-7	No	No	Organics	-		-		-	-	
Polybrominated Biphenyls	36355-01-8	No	No	Organics	8.60E-03	C	-		3.26E-04	-	3.26E-04 ca
Polychlorinated Biphenyls (high risk)	1336-36-3	No	Yes	Organics	5.71E-04	I	-		4.91E-03	-	4.91E-03 ca
Polychlorinated Biphenyls (low risk)	1336-36-3	No	Yes	Organics	1.00E-04	I	-		2.81E-02	-	2.81E-02 ca
Polychlorinated Biphenyls (lowest risk)	1336-36-3	No	Yes	Organics	2.00E-05	I	-		1.40E-01	-	1.40E-01 ca
Polymeric Methylene Diphenyl Diisocyanate (PMDI)	9016-87-9	No	No	Organics	-		6.00E-04	I	-	6.26E-02	6.26E-02 nc
Polyphosphoric acid	8017-16-1	No	No	Inorganics	-		-		-	-	
Potassium Cyanide	151-50-8	No	No	Inorganics	-		9.00E-03	C	-	9.39E-01	9.39E-01 nc
Potassium Perchlorate	7778-74-7	No	No	Inorganics	-		-		-	-	
Potassium Silver Cyanide	506-61-6	No	No	Inorganics	-		-		-	-	
Potassium heptafluorobutanoate	2966-54-3	No	Yes	Organics	-		-		-	-	
Potassium perfluorobutanesulfonate	29420-49-3	No	No	Organics	-		-		-	-	
Potassium perfluorooctanesulfonate	2795-39-3	No	No	Organics	-		-		-	-	
Potassium salts of inorganic phosphates	NA	No	No	Inorganics	-		-		-	-	
Potassium tripolyphosphate	13845-36-8	No	No	Inorganics	-		-		-	-	
Prochloraz	67747-09-5	No	No	Organics	-		-		-	-	
Profluralin	26399-36-0	No	Yes	Organics	-		-		-	-	
Prometon	1610-18-0	No	No	Organics	-		-		-	-	
Prometryn	7287-19-6	No	No	Organics	-		-		-	-	
Pronamide	23950-58-5	No	No	Organics	-		-		-	-	

Propachlor	1918-16-7	No	No	Organics	-		-		-	-	
Propanil	709-98-8	No	No	Organics	-		-		-	-	
Propargite	2312-35-8	No	No	Organics	-		-		-	-	
Propargyl Alcohol	107-19-7	No	Yes	Organics	-		-		-	-	
Propazine	139-40-2	No	No	Organics	-		-		-	-	
Propham	122-42-9	No	No	Organics	-		-		-	-	
Propiconazole	60207-90-1	No	No	Organics	-		-		-	-	
Propionaldehyde	123-38-6	No	Yes	Organics	-		8.00E-03	I	-	8.34E-01	8.34E-01 nc
Propyl benzene	103-65-1	No	Yes	Organics	-		1.00E+00	X	-	1.04E+02	1.04E+02 nc
Propylene	115-07-1	No	Yes	Organics	-		3.00E+00	C	-	3.13E+02	3.13E+02 nc
Propylene Glycol	57-55-6	No	No	Organics	-		-		-	-	
Propylene Glycol Dinitrate	6423-43-4	No	No	Organics	-		2.72E-04	A	-	2.83E-02	2.83E-02 nc
Propylene Glycol Monomethyl Ether	107-98-2	No	Yes	Organics	-		2.00E+00	I	-	2.09E+02	2.09E+02 nc
Propylene Oxide	75-56-9	No	Yes	Organics	3.70E-06	I	3.00E-02	I	7.59E-01	3.13E+00	7.59E-01 ca**
Pyrene	129-00-0	No	Yes	Organics	-		-		-	-	
Pyridine	110-86-1	No	Yes	Organics	-		-		-	-	
Quinalphos	13593-03-8	No	No	Organics	-		-		-	-	
Quinoline	91-22-5	No	No	Organics	-		-		-	-	
Quizalofop-ethyl	76578-14-8	No	No	Organics	-		-		-	-	
Refractory Ceramic Fibers (units in fibers)	NA	No	No	Inorganics	-		3.00E+04	A	-	3.13E+03	3.13E+03 nc
Resmethrin	10453-86-8	No	No	Organics	-		-		-	-	
Ronnel	299-84-3	No	Yes	Organics	-		-		-	-	
Rotenone	83-79-4	No	No	Organics	-		-		-	-	
Safrole	94-59-7	Yes	No	Organics	6.30E-05	C	-		1.61E-02	-	1.61E-02 ca
Selenious Acid	7783-00-8	No	No	Inorganics	-		-		-	-	
Selenium	7782-49-2	No	No	Inorganics	-		2.00E-02	C	-	2.09E+00	2.09E+00 nc
Selenium Sulfide	7446-34-6	No	No	Inorganics	-		2.00E-02	C	-	2.09E+00	2.09E+00 nc
Sethoxydim	74051-80-2	No	No	Organics	-		-		-	-	
Silica (crystalline, respirable)	7631-86-9	No	No	Inorganics	-		3.00E-03	C	-	3.13E-01	3.13E-01 nc
Silver	7440-22-4	No	No	Inorganics	-		-		-	-	
Silver Cyanide	506-64-9	No	No	Inorganics	-		-		-	-	
Simazine	122-34-9	No	No	Organics	-		-		-	-	
Sodium Acifluorfen	62476-59-9	No	No	Organics	-		-		-	-	
Sodium Azide	26628-22-8	No	No	Inorganics	-		-		-	-	
Sodium Cyanide	143-33-9	No	No	Inorganics	-		9.00E-03	C	-	9.39E-01	9.39E-01 nc
Sodium Diethyldithiocarbamate	148-18-5	No	No	Organics	-		-		-	-	
Sodium Fluoride	7681-49-4	No	No	Inorganics	-		1.40E-02	C	-	1.46E+00	1.46E+00 nc
Sodium Fluoroacetate	62-74-8	No	No	Organics	-		-		-	-	
Sodium Metavanadate	13718-26-8	No	No	Inorganics	-		-		-	-	
Sodium Perchlorate	7601-89-0	No	No	Inorganics	-		-		-	-	
Sodium Tungstate	13472-45-2	No	No	Inorganics	-		-		-	-	

Sodium aluminum phosphate (anhydrous)	10279-59-1	No	No	Inorganics	-		-		-	-	
Sodium aluminum phosphate (tetrahydrate)	10305-76-7	No	No	Inorganics	-		-		-	-	
Sodium hexametaphosphate	10124-56-8	No	No	Inorganics	-		-		-	-	
Sodium perfluorobutanoate	2218-54-4	No	Yes	Organics	-		-		-	-	
Sodium perfluorohexanoate	2923-26-4	No	No	Organics	-		-		-	-	
Sodium polyphosphate	68915-31-1	No	No	Inorganics	-		-		-	-	
Sodium pyrophosphate	7758-16-9	No	No	Inorganics	-		-		-	-	
Sodium salts of inorganic phosphates	NA	No	No	Inorganics	-		-		-	-	
Sodium trimetaphosphate	7785-84-4	No	No	Inorganics	-		-		-	-	
Sodium tripolyphosphate	7758-29-4	No	No	Inorganics	-		-		-	-	
Stirofos (Tetrachlorovinphos)	961-11-5	No	No	Organics	-		-		-	-	
Strontium, Stable	7440-24-6	No	No	Inorganics	-		-		-	-	
Strychnine	57-24-9	No	No	Organics	-		-		-	-	
Styrene	100-42-5	No	Yes	Organics	-		1.00E+00	I	-	1.04E+02	1.04E+02 nc
Styrene-Acrylonitrile (SAN) Trimer (THNA isomer)	57964-39-3	No	No	Organics	-		-		-	-	
Styrene-Acrylonitrile (SAN) Trimer (THNP isomer)	57964-40-6	No	No	Organics	-		-		-	-	
Sulfolane	126-33-0	No	No	Organics	-		2.00E-03	X	-	2.09E-01	2.09E-01 nc
Sulfonylbis(4-chlorobenzene), 1,1'-	80-07-9	No	No	Organics	-		-		-	-	
Sulfur Trioxide	7446-11-9	No	Yes	Inorganics	-		1.00E-03	C	-	1.04E-01	1.04E-01 nc
Sulfuric Acid	7664-93-9	No	No	Inorganics	-		1.00E-03	C	-	1.04E-01	1.04E-01 nc
Sulfurous acid, 2-chloroethyl 2-[4-(1,1-dimethylethyl)phenoxy]-1-methylethyl ester	140-57-8	No	No	Organics	7.10E-06	I	-		3.95E-01	-	3.95E-01 ca
TCDD, 2,3,7,8-	1746-01-6	No	Yes	Organics	3.80E+01	C	4.00E-08	C	7.39E-08	4.17E-06	7.39E-08 ca*
TCDF, 2,3,7,8-	51207-31-9	No	Yes	Organics	3.80E+00	W	4.00E-07	W	7.39E-07	4.17E-05	7.39E-07 ca*
Tebuthiuron	34014-18-1	No	No	Organics	-		-		-	-	
Temephos	3383-96-8	No	No	Organics	-		-		-	-	
Terbacil	5902-51-2	No	No	Organics	-		-		-	-	
Terbufos	13071-79-9	No	Yes	Organics	-		-		-	-	
Terbutryn	886-50-0	No	No	Organics	-		-		-	-	
Tert-Butyl Acetate	540-88-5	No	Yes	Organics	1.30E-06	C	-		2.16E+00	-	2.16E+00 ca
Tetrabromodiphenyl ether, 2,2',4,4'- (BDE-47)	5436-43-1	No	No	Organics	-		-		-	-	
Tetrachlorobenzene, 1,2,4,5-	95-94-3	No	Yes	Organics	-		-		-	-	
Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	32598-13-3	No	No	Organics	3.80E-03	W	4.00E-04	W	7.39E-04	4.17E-02	7.39E-04 ca*
Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	70362-50-4	No	Yes	Organics	1.14E-02	W	1.33E-04	W	2.46E-04	1.39E-02	2.46E-04 ca*
Tetrachloroethane, 1,1,1,2-	630-20-6	No	Yes	Organics	7.40E-06	I	-		3.79E-01	-	3.79E-01 ca
Tetrachloroethane, 1,1,2,2-	79-34-5	No	Yes	Organics	5.80E-05	C	-		4.84E-02	-	4.84E-02 ca
Tetrachloroethylene	127-18-4	No	Yes	Organics	2.60E-07	I	4.00E-02	I	1.08E+01	4.17E+00	4.17E+00 nc
Tetrachlorophenol, 2,3,4,6-	58-90-2	No	No	Organics	-		-		-	-	
Tetrachlorotoluene, p- alpha, alpha, alpha-	5216-25-1	No	Yes	Organics	-		-		-	-	
Tetraethyl Dithiopyrophosphate	3689-24-5	No	No	Organics	-		-		-	-	
Tetraethyl Lead	78-00-2	No	Yes	Organics	-		-		-	-	

Tetrafluoroethane, 1,1,1,2-	811-97-2	No	Yes	Organics	-		8.00E+01	I	-	8.34E+03	8.34E+03 nc
Tetrahydrofuran	109-99-9	No	Yes	Organics	-		2.00E+00	I	-	2.09E+02	2.09E+02 nc
Tetramethylphosphoramide, -N,N,N',N" (TMPA)	16853-36-4	No	No	Organics	-		-		-	-	
Tetrapotassium phosphate	7320-34-5	No	No	Inorganics	-		-		-	-	
Tetrasodium pyrophosphate	7722-88-5	No	No	Inorganics	-		-		-	-	
Tetryl (Trinitrophenylmethylnitramine)	479-45-8	No	No	Organics	-		-		-	-	
Thallic Oxide	1314-32-5	No	No	Inorganics	-		-		-	-	
Thallium (I) Nitrate	10102-45-1	No	No	Inorganics	-		-		-	-	
Thallium (Soluble Salts)	7440-28-0	No	No	Inorganics	-		-		-	-	
Thallium Acetate	563-68-8	No	Yes	Organics	-		-		-	-	
Thallium Carbonate	6533-73-9	No	No	Inorganics	-		-		-	-	
Thallium Chloride	7791-12-0	No	No	Inorganics	-		-		-	-	
Thallium Selenite	12039-52-0	No	No	Inorganics	-		-		-	-	
Thallium Sulfate	7446-18-6	No	No	Inorganics	-		-		-	-	
Thifensulfuron-methyl	79277-27-3	No	No	Organics	-		-		-	-	
Thiobencarb	28249-77-6	No	No	Organics	-		-		-	-	
Thiocyanates	NA	No	No	Inorganics	-		-		-	-	
Thiocyanic Acid	463-56-9	No	Yes	Inorganics	-		-		-	-	
Thiocyanic acid, (2-benzothiazolylthio)methyl ester (TCMTB)	21564-17-0	No	No	Organics	-		-		-	-	
Thiodiglycol	111-48-8	No	No	Organics	-		-		-	-	
Thiofanox	39196-18-4	No	No	Organics	-		-		-	-	
Thiophanate, Methyl	23564-05-8	No	No	Organics	-		-		-	-	
Thiram	137-26-8	No	No	Organics	-		-		-	-	
Tin	7440-31-5	No	No	Inorganics	-		-		-	-	
Titanium Tetrachloride	7550-45-0	No	Yes	Inorganics	-		1.00E-04	A	-	1.04E-02	1.04E-02 nc
Toluene	108-88-3	No	Yes	Organics	-		5.00E+00	I	-	5.21E+02	5.21E+02 nc
Toluene-2,4-diisocyanate	584-84-9	No	Yes	Organics	1.10E-05	C	8.00E-06	C	2.55E-01	8.34E-04	8.34E-04 nc
Toluene-2,6-diisocyanate	91-08-7	No	Yes	Organics	1.10E-05	C	8.00E-06	C	2.55E-01	8.34E-04	8.34E-04 nc
Toluenediamine, 2,3-	2687-25-4	No	No	Organics	-		-		-	-	
Toluenediamine, 2,5-	95-70-5	No	No	Organics	-		-		-	-	
Toluenediamine, 3,4-	496-72-0	No	No	Organics	-		-		-	-	
Toluic Acid, p-	99-94-5	No	No	Organics	-		-		-	-	
Toluidine, o- (Methylaniline, 2-)	95-53-4	No	No	Organics	5.10E-05	C	-		5.51E-02	-	5.51E-02 ca
Toluidine, p-	106-49-0	No	No	Organics	-		-		-	-	
Total Petroleum Hydrocarbons (Aliphatic High)	NA	No	Yes	Organics	-		-		-	-	
Total Petroleum Hydrocarbons (Aliphatic Low)	NA	No	Yes	Organics	-		4.00E-01	P	-	4.17E+01	4.17E+01 nc
Total Petroleum Hydrocarbons (Aliphatic Medium)	NA	No	Yes	Organics	-		1.00E-01	P	-	1.04E+01	1.04E+01 nc
Total Petroleum Hydrocarbons (Aromatic High)	NA	Yes	No	Organics	-		2.00E-06	P	-	2.09E-04	2.09E-04 nc
Total Petroleum Hydrocarbons (Aromatic Medium)	NA	No	Yes	Organics	-		6.00E-02	P	-	6.26E+00	6.26E+00 nc
Toxaphene	8001-35-2	No	No	Organics	3.20E-04	I	-		8.77E-03	-	8.77E-03 ca
Toxaphene, Weathered	NA	No	No	Organics	-		-		-	-	
Tralomethrin	66841-25-6	No	No	Organics	-		-		-	-	
Tri-n-butyltin	688-73-3	No	Yes	Organics	-		-		-	-	

Triacetin	102-76-1	No	No	Organics	-		-		-	-	
Triadimefon	43121-43-3	No	No	Organics	-		-		-	-	
Triallate	2303-17-5	No	Yes	Organics	-		-		-	-	
Trialuminum sodium tetra decahydrogenoctaorthophosphate (dihydrate)	15136-87-5	No	No	Inorganics	-		-		-	-	
Triasulfuron	82097-50-5	No	No	Organics	-		-		-	-	
Tribenuron-methyl	101200-48-0	No	No	Organics	-		-		-	-	
Tribromobenzene, 1,2,4-	615-54-3	No	Yes	Organics	-		-		-	-	
Tribromophenol, 2,4,6-	118-79-6	No	No	Organics	-		-		-	-	
Tribufos	78-48-8	No	No	Organics	-		-		-	-	
Tributyl Phosphate	126-73-8	No	No	Organics	-		-		-	-	
Tributyltin Compounds	NA	No	No	Organics	-		-		-	-	
Tributyltin Oxide	56-35-9	No	No	Organics	-		-		-	-	
Trichloro-1,2,2-trifluoroethane, 1,1,2-	76-13-1	No	Yes	Organics	-		5.00E+00	P	-	5.21E+02	5.21E+02 nc
Trichloroacetic Acid	76-03-9	No	No	Organics	-		-		-	-	
Trichloroaniline HCl, 2,4,6-	33663-50-2	No	No	Organics	-		-		-	-	
Trichloroaniline, 2,4,6-	634-93-5	No	No	Organics	-		-		-	-	
Trichlorobenzene, 1,2,3-	87-61-6	No	Yes	Organics	-		-		-	-	
Trichlorobenzene, 1,2,4-	120-82-1	No	Yes	Organics	-		2.00E-03	P	-	2.09E-01	2.09E-01 nc
Trichloroethane, 1,1,1-	71-55-6	No	Yes	Organics	-		5.00E+00	I	-	5.21E+02	5.21E+02 nc
Trichloroethane, 1,1,2-	79-00-5	No	Yes	Organics	1.60E-05	I	2.00E-04	X	1.75E-01	2.09E-02	2.09E-02 nc
Trichloroethylene	79-01-6	Yes	Yes	Organics	4.10E-06	I	2.00E-03	I	4.78E-01	2.09E-01	2.09E-01 nc
Trichlorofluoromethane	75-69-4	No	Yes	Organics	-		-		-	-	
Trichlorophenol, 2,4,5-	95-95-4	No	No	Organics	-		-		-	-	
Trichlorophenol, 2,4,6-	88-06-2	No	No	Organics	3.10E-06	I	-		9.06E-01	-	9.06E-01 ca
Trichlorophenoxyacetic Acid, 2,4,5-	93-76-5	No	No	Organics	-		-		-	-	
Trichlorophenoxypropionic acid, -2,4,5	93-72-1	No	No	Organics	-		-		-	-	
Trichloropropane, 1,1,2-	598-77-6	No	Yes	Organics	-		-		-	-	
Trichloropropane, 1,2,3-	96-18-4	Yes	Yes	Organics	-		3.00E-04	I	-	3.13E-02	3.13E-02 nc
Trichloropropene, 1,2,3-	96-19-5	No	Yes	Organics	-		3.00E-04	P	-	3.13E-02	3.13E-02 nc
Tricresyl Phosphate (TCP)	1330-78-5	No	No	Organics	-		-		-	-	
Tridiphane	58138-08-2	No	No	Organics	-		-		-	-	
Triethylamine	121-44-8	No	Yes	Organics	-		7.00E-03	I	-	7.30E-01	7.30E-01 nc
Triethylene Glycol	112-27-6	No	No	Organics	-		-		-	-	
Trifluoroethane, 1,1,1-	420-46-2	No	Yes	Organics	-		2.00E+01	P	-	2.09E+03	2.09E+03 nc
Trifluralin	1582-09-8	No	Yes	Organics	-		-		-	-	
Trimethyl Phosphate	512-56-1	No	No	Organics	-		-		-	-	
Trimethylbenzene, 1,2,3-	526-73-8	No	Yes	Organics	-		6.00E-02	I	-	6.26E+00	6.26E+00 nc
Trimethylbenzene, 1,2,4-	95-63-6	No	Yes	Organics	-		6.00E-02	I	-	6.26E+00	6.26E+00 nc
Trimethylbenzene, 1,3,5-	108-67-8	No	Yes	Organics	-		6.00E-02	I	-	6.26E+00	6.26E+00 nc
Trimethylpentene, 2,4,4-	25167-70-8	No	Yes	Organics	-		-		-	-	
Trinitrobenzene, 1,3,5-	99-35-4	No	No	Organics	-		-		-	-	
Trinitrotoluene, 2,4,6-	118-96-7	No	No	Organics	-		-		-	-	

Triphenylphosphine Oxide	791-28-6	No	No	Organics	-		-		-	-	
Triphosphoric acid, aluminum salt (1:1) [aluminum triphosphate]	13939-25-8	No	No	Inorganics	-		-		-	-	
Tripotassium phosphate	7778-53-2	No	No	Inorganics	-		-		-	-	
Tris(1,3-Dichloro-2-propyl) Phosphate	13674-87-8	No	No	Organics	-		-		-	-	
Tris(1-chloro-2-propyl)phosphate	13674-84-5	No	No	Organics	-		-		-	-	
Tris(2,3-dibromopropyl)phosphate	126-72-7	No	Yes	Organics	6.60E-04	C	-		4.25E-03	-	4.25E-03 ca
Tris(2-chloroethyl)phosphate	115-96-8	No	No	Organics	-		-		-	-	
Tris(2-ethylhexyl)phosphate	78-42-2	No	No	Organics	-		-		-	-	
Trisodium phosphate	7601-54-9	No	No	Inorganics	-		-		-	-	
Tungsten	7440-33-7	No	No	Inorganics	-		-		-	-	
Uranium	7440-61-1	No	No	Inorganics	-		4.00E-05	A	-	4.17E-03	4.17E-03 nc
Urethane	51-79-6	Yes	No	Organics	2.90E-04	C	-		3.50E-03	-	3.50E-03 ca
Vanadium Pentoxide	1314-62-1	No	No	Inorganics	8.30E-03	P	7.00E-06	P	3.38E-04	7.30E-04	3.38E-04 ca**
Vanadium and Compounds	7440-62-2	No	No	Inorganics	-		1.00E-04	A	-	1.04E-02	1.04E-02 nc
Vernolate	1929-77-7	No	Yes	Organics	-		-		-	-	
Vinclozolin	50471-44-8	No	No	Organics	-		-		-	-	
Vinyl Acetate	108-05-4	No	Yes	Organics	-		2.00E-01	I	-	2.09E+01	2.09E+01 nc
Vinyl Bromide	593-60-2	No	Yes	Organics	1.50E-05	P	3.00E-03	I	1.87E-01	3.13E-01	1.87E-01 ca**
Vinyl Chloride	75-01-4	Yes	Yes	Organics	4.40E-06	I	1.00E-01	I	1.68E-01	1.04E+01	1.68E-01 ca*
Warfarin	81-81-2	No	No	Organics	-		-		-	-	
Xylene, m-	108-38-3	No	Yes	Organics	-		1.00E-01	G	-	1.04E+01	1.04E+01 nc
Xylene, o-	95-47-6	No	Yes	Organics	-		1.00E-01	G	-	1.04E+01	1.04E+01 nc
Xylene, p-	106-42-3	No	Yes	Organics	-		1.00E-01	G	-	1.04E+01	1.04E+01 nc
Xylenes	1330-20-7	No	Yes	Organics	-		1.00E-01	I	-	1.04E+01	1.04E+01 nc
Zinc Cyanide	557-21-1	No	No	Inorganics	-		-		-	-	
Zinc Phosphide	1314-84-7	No	No	Inorganics	-		-		-	-	
Zinc and Compounds	7440-66-6	No	No	Inorganics	-		-		-	-	
Zineb	12122-67-7	No	No	Organics	-		-		-	-	
Zirconium	7440-67-7	No	No	Inorganics	-		-		-	-	

Attachment 7

Laboratory Analytical Reports

ANALYTICAL REPORT

March 26, 2024

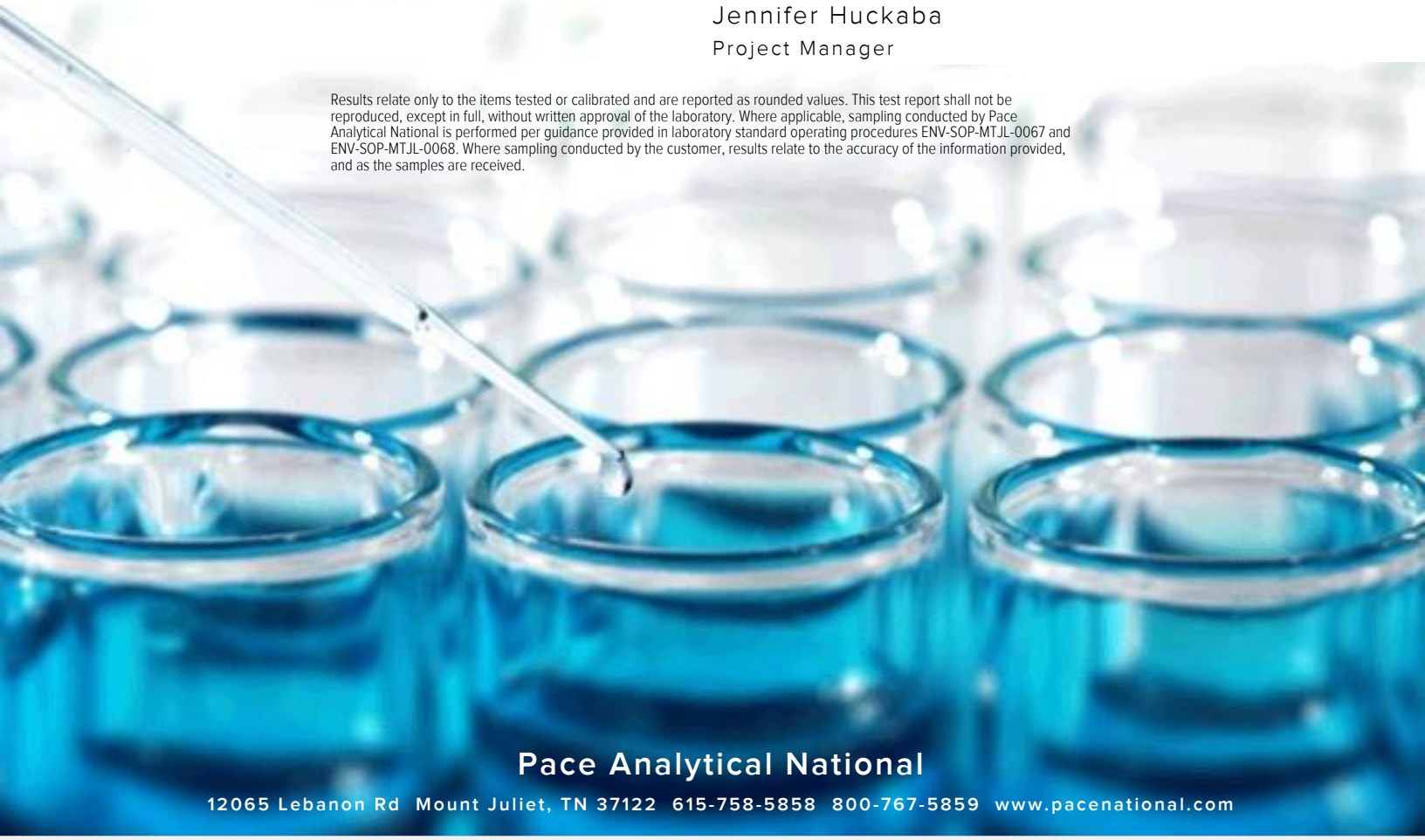
1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Dominion Due Diligence Group

Sample Delivery Group:	L1716187
Samples Received:	03/16/2024
Project Number:	2024-000564
Description:	Arrington Manor
Site:	COLUMBIA, SC
Report To:	Mr. Ian Court 201 Wylderose Dr Midlothian, VA 23113

Entire Report Reviewed By: Jennifer Huckaba

Jennifer Huckaba
Project Manager



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

SB-1 L1716187-01 Solid

Collected by: Ian Court | Collected date/time: 03/15/24 12:24 | Received date/time: 03/16/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2249731	1	03/20/24 10:09	03/20/24 10:15	CMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2252699	1	03/15/24 12:24	03/24/24 02:29	JHH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2250876	1	03/21/24 07:44	03/21/24 23:31	JRM	Mt. Juliet, TN

SB-2 L1716187-02 Solid

Collected by: Ian Court | Collected date/time: 03/15/24 12:47 | Received date/time: 03/16/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2249731	1	03/20/24 10:09	03/20/24 10:15	CMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2252699	1	03/15/24 12:47	03/23/24 20:36	JHH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2250876	1	03/21/24 07:44	03/21/24 23:48	JRM	Mt. Juliet, TN

SB-3 L1716187-03 Solid

Collected by: Ian Court | Collected date/time: 03/15/24 11:59 | Received date/time: 03/16/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2249731	1	03/20/24 10:09	03/20/24 10:15	CMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2252702	1	03/15/24 11:59	03/24/24 07:42	JHH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2250876	1	03/21/24 07:44	03/22/24 00:05	JRM	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jennifer Huckaba

Jennifer Huckaba
Project Manager

Project Narrative

The project number was revised per client request to 2024-000564. Also, per the client LTO, a custom 8260 list is being reported rather than the full list (BTEX, NAP, MTBE, 1,2-DCA, EDB).

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.6		1	03/20/2024 10:15	WG2249731

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000674	0.00144	1	03/24/2024 02:29	WG2252699
Toluene	U	C3	0.00188	0.00722	1	03/24/2024 02:29	WG2252699
Ethylbenzene	U		0.00106	0.00361	1	03/24/2024 02:29	WG2252699
Xylenes, Total	U		0.00127	0.00938	1	03/24/2024 02:29	WG2252699
Naphthalene	U		0.00705	0.0180	1	03/24/2024 02:29	WG2252699
Methyl tert-butyl ether	U		0.000505	0.00144	1	03/24/2024 02:29	WG2252699
1,2-Dichloroethane	U		0.000937	0.00361	1	03/24/2024 02:29	WG2252699
1,2-Dibromoethane	U		0.000936	0.00361	1	03/24/2024 02:29	WG2252699
(S) Toluene-d8	*107*			*75.0-131*		*03/24/2024 02:29*	WG2252699
(S) 4-Bromofluorobenzene	*99.2*			*67.0-138*		*03/24/2024 02:29*	WG2252699
(S) 1,2-Dichloroethane-d4	*87.9*			*70.0-130*		*03/24/2024 02:29*	WG2252699

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00272	0.00709	1	03/21/2024 23:31	WG2250876
Acenaphthene	U		0.00247	0.00709	1	03/21/2024 23:31	WG2250876
Acenaphthylene	U		0.00255	0.00709	1	03/21/2024 23:31	WG2250876
Benzo(a)anthracene	U		0.00205	0.00709	1	03/21/2024 23:31	WG2250876
Benzo(a)pyrene	U		0.00212	0.00709	1	03/21/2024 23:31	WG2250876
Benzo(b)fluoranthene	U		0.00181	0.00709	1	03/21/2024 23:31	WG2250876
Benzo(g,h,i)perylene	U		0.00209	0.00709	1	03/21/2024 23:31	WG2250876
Benzo(k)fluoranthene	U		0.00254	0.00709	1	03/21/2024 23:31	WG2250876
Chrysene	U		0.00274	0.00709	1	03/21/2024 23:31	WG2250876
Dibenz(a,h)anthracene	U		0.00203	0.00709	1	03/21/2024 23:31	WG2250876
Fluoranthene	U		0.00268	0.00709	1	03/21/2024 23:31	WG2250876
Fluorene	U		0.00242	0.00709	1	03/21/2024 23:31	WG2250876
Indeno(1,2,3-cd)pyrene	U		0.00214	0.00709	1	03/21/2024 23:31	WG2250876
Naphthalene	U		0.00482	0.0236	1	03/21/2024 23:31	WG2250876
Phenanthrene	U		0.00273	0.00709	1	03/21/2024 23:31	WG2250876
Pyrene	U		0.00236	0.00709	1	03/21/2024 23:31	WG2250876
1-Methylnaphthalene	U		0.00531	0.0236	1	03/21/2024 23:31	WG2250876
2-Methylnaphthalene	U		0.00505	0.0236	1	03/21/2024 23:31	WG2250876
2-Chloronaphthalene	U		0.00551	0.0236	1	03/21/2024 23:31	WG2250876
(S) Nitrobenzene-d5	*79.0*			*14.0-149*		*03/21/2024 23:31*	WG2250876
(S) 2-Fluorobiphenyl	*72.6*			*34.0-125*		*03/21/2024 23:31*	WG2250876
(S) p-Terphenyl-d14	*63.2*			*23.0-120*		*03/21/2024 23:31*	WG2250876

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	79.8		1	03/20/2024 10:15	WG2249731

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000717	0.00154	1	03/23/2024 20:36	WG2252699
Toluene	U	C3	0.00200	0.00768	1	03/23/2024 20:36	WG2252699
Ethylbenzene	U		0.00113	0.00384	1	03/23/2024 20:36	WG2252699
Xylenes, Total	U		0.00135	0.00998	1	03/23/2024 20:36	WG2252699
Naphthalene	U		0.00749	0.0192	1	03/23/2024 20:36	WG2252699
Methyl tert-butyl ether	U		0.000537	0.00154	1	03/23/2024 20:36	WG2252699
1,2-Dichloroethane	U		0.000997	0.00384	1	03/23/2024 20:36	WG2252699
1,2-Dibromoethane	U		0.000995	0.00384	1	03/23/2024 20:36	WG2252699
(S) Toluene-d8	*112*			*75.0-131*		*03/23/2024 20:36*	WG2252699
(S) 4-Bromofluorobenzene	*97.7*			*67.0-138*		*03/23/2024 20:36*	WG2252699
(S) 1,2-Dichloroethane-d4	*93.3*			*70.0-130*		*03/23/2024 20:36*	WG2252699

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00288	0.00752	1	03/21/2024 23:48	WG2250876
Acenaphthene	U		0.00262	0.00752	1	03/21/2024 23:48	WG2250876
Acenaphthylene	U		0.00271	0.00752	1	03/21/2024 23:48	WG2250876
Benzo(a)anthracene	U		0.00217	0.00752	1	03/21/2024 23:48	WG2250876
Benzo(a)pyrene	U		0.00224	0.00752	1	03/21/2024 23:48	WG2250876
Benzo(b)fluoranthene	U		0.00192	0.00752	1	03/21/2024 23:48	WG2250876
Benzo(g,h,i)perylene	U		0.00222	0.00752	1	03/21/2024 23:48	WG2250876
Benzo(k)fluoranthene	U		0.00269	0.00752	1	03/21/2024 23:48	WG2250876
Chrysene	U		0.00291	0.00752	1	03/21/2024 23:48	WG2250876
Dibenz(a,h)anthracene	U		0.00215	0.00752	1	03/21/2024 23:48	WG2250876
Fluoranthene	U		0.00284	0.00752	1	03/21/2024 23:48	WG2250876
Fluorene	U		0.00257	0.00752	1	03/21/2024 23:48	WG2250876
Indeno(1,2,3-cd)pyrene	U		0.00227	0.00752	1	03/21/2024 23:48	WG2250876
Naphthalene	U		0.00511	0.0251	1	03/21/2024 23:48	WG2250876
Phenanthrene	U		0.00289	0.00752	1	03/21/2024 23:48	WG2250876
Pyrene	U		0.00251	0.00752	1	03/21/2024 23:48	WG2250876
1-Methylnaphthalene	U		0.00562	0.0251	1	03/21/2024 23:48	WG2250876
2-Methylnaphthalene	U		0.00535	0.0251	1	03/21/2024 23:48	WG2250876
2-Chloronaphthalene	U		0.00584	0.0251	1	03/21/2024 23:48	WG2250876
(S) Nitrobenzene-d5	*79.8*			*14.0-149*		*03/21/2024 23:48*	WG2250876
(S) 2-Fluorobiphenyl	*78.3*			*34.0-125*		*03/21/2024 23:48*	WG2250876
(S) p-Terphenyl-d14	*70.9*			*23.0-120*		*03/21/2024 23:48*	WG2250876

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	80.5		1	03/20/2024 10:15	WG2249731

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000718	0.00154	1	03/24/2024 07:42	WG2252702
Toluene	U		0.00200	0.00769	1	03/24/2024 07:42	WG2252702
Ethylbenzene	U		0.00113	0.00384	1	03/24/2024 07:42	WG2252702
Xylenes, Total	U		0.00135	0.00999	1	03/24/2024 07:42	WG2252702
Naphthalene	U		0.00750	0.0192	1	03/24/2024 07:42	WG2252702
Methyl tert-butyl ether	U		0.000538	0.00154	1	03/24/2024 07:42	WG2252702
1,2-Dichloroethane	U		0.000998	0.00384	1	03/24/2024 07:42	WG2252702
1,2-Dibromoethane	U		0.000996	0.00384	1	03/24/2024 07:42	WG2252702
(S) Toluene-d8	*103*			*75.0-131*		*03/24/2024 07:42*	WG2252702
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*03/24/2024 07:42*	WG2252702
(S) 1,2-Dichloroethane-d4	*98.0*			*70.0-130*		*03/24/2024 07:42*	WG2252702

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00286	0.00745	1	03/22/2024 00:05	WG2250876
Acenaphthene	U		0.00260	0.00745	1	03/22/2024 00:05	WG2250876
Acenaphthylene	U		0.00268	0.00745	1	03/22/2024 00:05	WG2250876
Benzo(a)anthracene	U		0.00215	0.00745	1	03/22/2024 00:05	WG2250876
Benzo(a)pyrene	U		0.00222	0.00745	1	03/22/2024 00:05	WG2250876
Benzo(b)fluoranthene	U		0.00190	0.00745	1	03/22/2024 00:05	WG2250876
Benzo(g,h,i)perylene	U		0.00220	0.00745	1	03/22/2024 00:05	WG2250876
Benzo(k)fluoranthene	U		0.00267	0.00745	1	03/22/2024 00:05	WG2250876
Chrysene	U		0.00288	0.00745	1	03/22/2024 00:05	WG2250876
Dibenz(a,h)anthracene	U		0.00214	0.00745	1	03/22/2024 00:05	WG2250876
Fluoranthene	U		0.00282	0.00745	1	03/22/2024 00:05	WG2250876
Fluorene	U		0.00255	0.00745	1	03/22/2024 00:05	WG2250876
Indeno(1,2,3-cd)pyrene	U		0.00225	0.00745	1	03/22/2024 00:05	WG2250876
Naphthalene	U		0.00507	0.0248	1	03/22/2024 00:05	WG2250876
Phenanthrene	U		0.00287	0.00745	1	03/22/2024 00:05	WG2250876
Pyrene	U		0.00248	0.00745	1	03/22/2024 00:05	WG2250876
1-Methylnaphthalene	U		0.00558	0.0248	1	03/22/2024 00:05	WG2250876
2-Methylnaphthalene	U		0.00530	0.0248	1	03/22/2024 00:05	WG2250876
2-Chloronaphthalene	U		0.00579	0.0248	1	03/22/2024 00:05	WG2250876
(S) Nitrobenzene-d5	*87.1*			*14.0-149*		*03/22/2024 00:05*	WG2250876
(S) 2-Fluorobiphenyl	*89.5*			*34.0-125*		*03/22/2024 00:05*	WG2250876
(S) p-Terphenyl-d14	*86.7*			*23.0-120*		*03/22/2024 00:05*	WG2250876

QUALITY CONTROL SUMMARY

L1716187-01,02,03

Method Blank (MB)

(MB) R4048143-1 03/20/24 10:15

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.000			

L1716187-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1716187-01 03/20/24 10:15 • (DUP) R4048143-3 03/20/24 10:15

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	84.6	84.7	1	0.180		10

Laboratory Control Sample (LCS)

(LCS) R4048143-2 03/20/24 10:15

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	90.0-110	

Method Blank (MB)

(MB) R4049523-2 03/23/24 20:03

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Toluene	U		0.00130	0.00500
Ethylbenzene	U		0.000737	0.00250
Xylenes, Total	U		0.000880	0.00650
Naphthalene	U		0.00488	0.0125
Methyl tert-butyl ether	U		0.000350	0.00100
1,2-Dichloroethane	U		0.000649	0.00250
1,2-Dibromoethane	U		0.000648	0.00250
(S) Toluene-d8	*105*			*75.0-131*
(S) 4-Bromofluorobenzene	*98.6*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*91.9*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4049523-1 03/23/24 18:55 • (LCSD) R4049523-3 03/24/24 03:28

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.124	0.142	99.2	114	70.0-130			13.5	20
Toluene	0.125	0.104	0.116	83.2	92.8	70.0-130			10.9	20
Ethylbenzene	0.125	0.124	0.131	99.2	105	70.0-130			5.49	20
Xylenes, Total	0.375	0.348	0.381	92.8	102	70.0-130			9.05	20
Naphthalene	0.125	0.121	0.128	96.8	102	70.0-130			5.62	20
Methyl tert-butyl ether	0.125	0.151	0.134	121	107	70.0-130			11.9	20
1,2-Dichloroethane	0.125	0.117	0.109	93.6	87.2	70.0-130			7.08	20
1,2-Dibromoethane	0.125	0.113	0.117	90.4	93.6	70.0-130			3.48	20
(S) Toluene-d8				*92.3*	*95.7*	*75.0-131*				
(S) 4-Bromofluorobenzene				*104*	*106*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*102*	*108*	*70.0-130*				

Method Blank (MB)

(MB) R4049537-2 03/24/24 04:46

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Toluene	U		0.00130	0.00500
Ethylbenzene	U		0.000737	0.00250
Xylenes, Total	0.00247	J	0.000880	0.00650
Naphthalene	U		0.00488	0.0125
Methyl tert-butyl ether	U		0.000350	0.00100
1,2-Dichloroethane	U		0.000649	0.00250
1,2-Dibromoethane	U		0.000648	0.00250
(S) Toluene-d8	*107*			*75.0-131*
(S) 4-Bromofluorobenzene	*101*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*94.4*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R4049537-1 03/24/24 03:47

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.137	110	70.0-130	
Toluene	0.125	0.117	93.6	70.0-130	
Ethylbenzene	0.125	0.132	106	70.0-130	
Xylenes, Total	0.375	0.380	101	70.0-130	
Naphthalene	0.125	0.125	100	70.0-130	
Methyl tert-butyl ether	0.125	0.140	112	70.0-130	
1,2-Dichloroethane	0.125	0.116	92.8	70.0-130	
1,2-Dibromoethane	0.125	0.116	92.8	70.0-130	
(S) Toluene-d8			*98.2*	*75.0-131*	
(S) 4-Bromofluorobenzene			*104*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*107*	*70.0-130*	

Method Blank (MB)

(MB) R4049029-2 03/21/24 18:21

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	*77.8*			*14.0-149*
(S) 2-Fluorobiphenyl	*89.4*			*34.0-125*
(S) p-Terphenyl-d14	*91.5*			*23.0-120*

Laboratory Control Sample (LCS)

(LCS) R4049029-1 03/21/24 18:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0772	96.5	70.0-130	
Acenaphthene	0.0800	0.0735	91.9	70.0-130	
Acenaphthylene	0.0800	0.0816	102	70.0-130	
Benzo(a)anthracene	0.0800	0.0777	97.1	70.0-130	
Benzo(a)pyrene	0.0800	0.0595	74.4	70.0-130	
Benzo(b)fluoranthene	0.0800	0.0741	92.6	70.0-130	
Benzo(g,h,i)perylene	0.0800	0.0723	90.4	70.0-130	
Benzo(k)fluoranthene	0.0800	0.0690	86.3	70.0-130	
Chrysene	0.0800	0.0775	96.9	70.0-130	
Dibenz(a,h)anthracene	0.0800	0.0727	90.9	70.0-130	
Fluoranthene	0.0800	0.0807	101	70.0-130	

Laboratory Control Sample (LCS)

(LCS) R4049029-1 03/21/24 18:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0818	102	70.0-130	
Indeno(1,2,3-cd)pyrene	0.0800	0.0748	93.5	70.0-130	
Naphthalene	0.0800	0.0742	92.8	70.0-130	
Phenanthrene	0.0800	0.0772	96.5	70.0-130	
Pyrene	0.0800	0.0758	94.8	70.0-130	
1-Methylnaphthalene	0.0800	0.0807	101	70.0-130	
2-Methylnaphthalene	0.0800	0.0782	97.8	70.0-130	
2-Chloronaphthalene	0.0800	0.0778	97.3	70.0-130	
(S) Nitrobenzene-d5			*80.9*	*14.0-149*	
(S) 2-Fluorobiphenyl			*89.3*	*34.0-125*	
(S) p-Terphenyl-d14			*91.5*	*23.0-120*	

L1716059-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1716059-21 03/21/24 21:13 • (MS) R4049029-3 03/21/24 21:31 • (MSD) R4049029-4 03/21/24 21:48

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0788	U	0.0754	0.0704	95.7	89.3	1	26.5-141			6.86	25
Acenaphthene	0.0788	U	0.0708	0.0670	89.8	85.0	1	31.9-130			5.52	25
Acenaphthylene	0.0788	U	0.0761	0.0732	96.6	92.9	1	33.7-129			3.88	25
Benzo(a)anthracene	0.0788	U	0.0742	0.0709	94.2	90.0	1	18.3-136			4.55	25
Benzo(a)pyrene	0.0788	U	0.0694	0.0671	88.1	85.2	1	16.9-135			3.37	25
Benzo(b)fluoranthene	0.0788	U	0.0697	0.0670	88.5	85.0	1	10.0-134			3.95	25
Benzo(g,h,i)perylene	0.0788	U	0.0680	0.0647	86.3	82.1	1	14.1-140			4.97	25
Benzo(k)fluoranthene	0.0788	U	0.0671	0.0646	85.2	82.0	1	18.2-138			3.80	25
Chrysene	0.0788	U	0.0740	0.0711	93.9	90.2	1	17.1-145			4.00	25
Dibenz(a,h)anthracene	0.0788	U	0.0670	0.0643	85.0	81.6	1	18.5-138			4.11	25
Fluoranthene	0.0788	U	0.0781	0.0733	99.1	93.0	1	15.4-144			6.34	25
Fluorene	0.0788	0.00639	0.0824	0.0786	96.5	91.6	1	23.5-136			4.72	25
Indeno(1,2,3-cd)pyrene	0.0788	U	0.0688	0.0662	87.3	84.0	1	14.5-142			3.85	25
Naphthalene	0.0788	U	0.0737	0.0697	93.5	88.5	1	29.2-128			5.58	25
Phenanthrene	0.0788	0.0390	0.115	0.105	96.4	83.8	1	20.1-134			9.09	25
Pyrene	0.0788	0.00220	0.0744	0.0709	91.6	87.2	1	11.0-148			4.82	25
1-Methylnaphthalene	0.0788	0.0352	0.110	0.102	94.9	84.8	1	28.4-137			7.55	25
2-Methylnaphthalene	0.0788	0.0220	0.0948	0.0886	92.4	84.5	1	26.6-137			6.76	25
2-Chloronaphthalene	0.0788	U	0.0729	0.0696	92.5	88.3	1	38.6-126			4.63	25
(S) Nitrobenzene-d5					*82.1*	*80.6*		*14.0-149*				
(S) 2-Fluorobiphenyl					*87.0*	*83.7*		*34.0-125*				
(S) p-Terphenyl-d14					*90.3*	*85.0*		*23.0-120*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
J	The identification of the analyte is acceptable; the reported value is an estimate.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Dominion Due Diligence Group
201 Wylderose Dr
Midlothian, VA 23113

Billing Information:
Accounts Payable
201 Wylderose Dr
Midlothian, VA 23113

Report to: **Mr. Ian Court**

Email To: r.james@d3g.com;b.diehl@d3g.com;m.antal@d

Project Description: **Arrington Manor - Columbia, South Carolina**

City/State Collected: Columbia, SC

Please Circle: PT MT CT (ET)

Phone: **703-340-5773**

Client Project # **2024-000563**

Lab Project # **D3GVA-2024-000563**

Collected by (print): Ian Court

Site/Facility ID #

P.O. #

Collected by (signature): [signature]

Immediately Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day 7 day TAT

Quote #

Date Results Needed

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace — PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # 6171618 7
A216

Acctnum: **D3GVA**
Template: **T248505**
Prelogin: **P1062510**
PM: **3513 - Jennifer Huckaba**
PB: BF 3/12/24
Shipped Via: **FedEX Ground**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	8270PAHSIMDSC 100ml Amb NoPres	SV8270PAHSIMDSC, TS 4ozAmb-NoPres	V8260SC 40mlAmb HCl	V8260SC 40mlAmb/MeOH10ml/Syr	Remarks	Sample # (lab only)
SB-1	6	SS	5-7	5-15-24	12:24	3		X		X		-01
SB-2	6	SS	4-6	5-15-24	12:47	3		X		X		-02
SB-3	6	SS	4-6	5-15-24	11:54	3		X		X		-03
		SS				3		X		X		
SB-1 (GW)		GW				5	X		X			
SB-2 (GW)		GW				5	X		X			
SB-3 (GW)		GW				5	X		X			
TRIP BLANK		GW				1			X			
		GW				5	X		X			

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: 7 day TAT

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: __ UPS ✓ FedEx __ Courier _____

Tracking # 7155 0321 3283

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: ✓Y __N
Preservation Correct/Checked: ✓Y __N
RAD Screen <0.5 mR/hr: ✓Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR	
[signature]	3-15-24	14:00		2	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 4LA9 4.8+0:4.0	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3-16-24 Time: 9:30	Hold: / Condition: NCF / OK

Jennifer Huckaba

From: Ian Court <i.court@d3g.com>
Sent: Thursday, March 21, 2024 9:17 AM
To: Jennifer Huckaba
Subject: Columbia SC Projects

CAUTION: This email originated from outside Pace Analytical. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Jennifer,

Can you please change the project name on SGDs L1716187 and L1716008 to Arrington Manor, and the project numbers to 2024-000564.

Thank you!

Ian Court
Phase II Staff Environmental Scientist
E: i.court@d3g.com
A: 201 Wylderose Drive
Midlothian, Va. 23113

People, Innovation, Passion, Excellence

ANALYTICAL REPORT

March 21, 2024

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

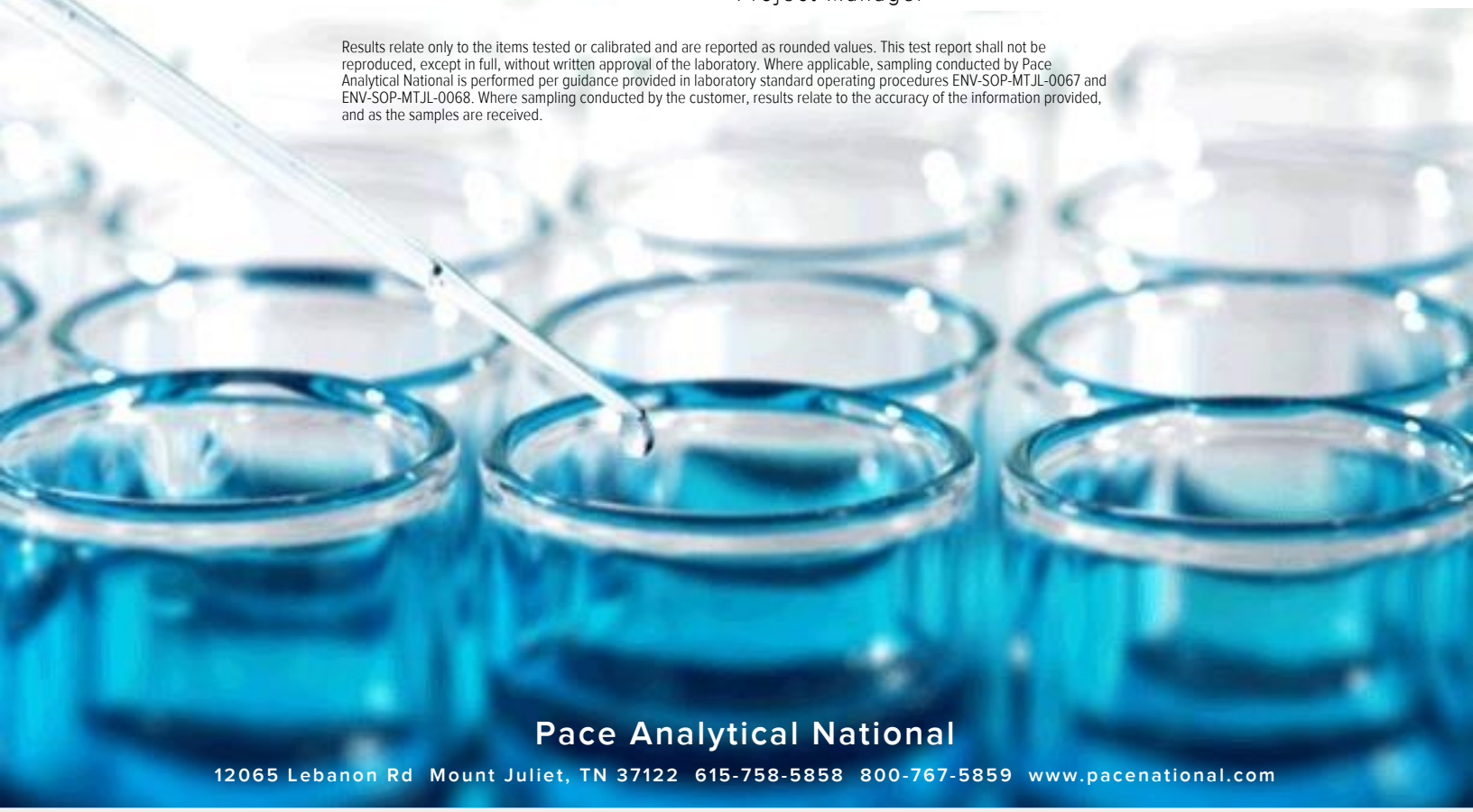
Dominion Due Diligence Group

Sample Delivery Group:	L1716008
Samples Received:	03/16/2024
Project Number:	2024-000564
Description:	Arrington Manor
Site:	COLUMBIA, SC
Report To:	Mr. Ian Court 201 Wylderose Dr Midlothian, VA 23113

Entire Report Reviewed By:

Jennifer Huckaba
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

SG-1 L1716008-01 Air

Collected by: Ian Court | Collected date/time: 03/15/24 12:29 | Received date/time: 03/16/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2248344	1	03/17/24 17:33	03/17/24 17:33	MNP	Mt. Juliet, TN

SG-2 L1716008-02 Air

Collected by: Ian Court | Collected date/time: 03/15/24 12:51 | Received date/time: 03/16/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2248344	1	03/17/24 18:01	03/17/24 18:01	MNP	Mt. Juliet, TN

SG-3 L1716008-03 Air

Collected by: Ian Court | Collected date/time: 03/15/24 12:03 | Received date/time: 03/16/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2248344	1	03/17/24 18:30	03/17/24 18:30	MNP	Mt. Juliet, TN

OA-1 L1716008-04 Air

Collected by: Ian Court | Collected date/time: 03/15/24 11:33 | Received date/time: 03/16/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2248344	1	03/17/24 18:58	03/17/24 18:58	MNP	Mt. Juliet, TN

TRIP BLANK L1716008-05 Air

Collected by: Ian Court | Collected date/time: 03/15/24 00:00 | Received date/time: 03/16/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2248344	1	03/17/24 16:09	03/17/24 16:09	MNP	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jennifer Huckaba

Jennifer Huckaba
Project Manager

Project Narrative

The project number for this SDG was changed by client request to 2024-000564. Also, reporting a custom short list according to the LTO for this project, rather than the full TO-15 list.

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Benzene	71-43-2	78.10	0.200	0.639	7.17	22.9		1	WG2248344
Toluene	108-88-3	92.10	0.500	1.88	22.5	84.8		1	WG2248344
Ethylbenzene	100-41-4	106	0.200	0.867	2.37	10.3		1	WG2248344
m&p-Xylene	179601-23-1	106	0.400	1.73	7.60	32.9		1	WG2248344
o-Xylene	95-47-6	106	0.200	0.867	3.32	14.4		1	WG2248344
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2248344
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2248344
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2248344
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2248344
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*102*				WG2248344

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Benzene	71-43-2	78.10	0.200	0.639	16.2	51.7		1	WG2248344
Toluene	108-88-3	92.10	0.500	1.88	95.6	360		1	WG2248344
Ethylbenzene	100-41-4	106	0.200	0.867	5.48	23.8		1	WG2248344
m&p-Xylene	179601-23-1	106	0.400	1.73	14.6	63.3		1	WG2248344
o-Xylene	95-47-6	106	0.200	0.867	7.30	31.6		1	WG2248344
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2248344
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2248344
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2248344
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2248344
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*101*				WG2248344

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Benzene	71-43-2	78.10	0.200	0.639	6.01	19.2		1	WG2248344
Toluene	108-88-3	92.10	0.500	1.88	64.3	242		1	WG2248344
Ethylbenzene	100-41-4	106	0.200	0.867	2.87	12.4		1	WG2248344
m&p-Xylene	179601-23-1	106	0.400	1.73	8.52	36.9		1	WG2248344
o-Xylene	95-47-6	106	0.200	0.867	3.55	15.4		1	WG2248344
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2248344
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2248344
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2248344
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2248344
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*101*				WG2248344

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Benzene	71-43-2	78.10	0.200	0.639	0.271	0.866		1	WG2248344
Toluene	108-88-3	92.10	0.500	1.88	6.26	23.6		1	WG2248344
Ethylbenzene	100-41-4	106	0.200	0.867	0.204	0.884		1	WG2248344
m&p-Xylene	179601-23-1	106	0.400	1.73	0.575	2.49		1	WG2248344
o-Xylene	95-47-6	106	0.200	0.867	0.206	0.893		1	WG2248344
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2248344
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2248344
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2248344
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2248344
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*95.4*				WG2248344

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG2248344
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG2248344
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2248344
m&p-Xylene	179601-23-1	106	0.400	1.73	ND	ND		1	WG2248344
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2248344
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2248344
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2248344
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2248344
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2248344
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*91.7*				WG2248344

QUALITY CONTROL SUMMARY

L1716008-01,02,03,04,05

Method Blank (MB)

(MB) R4047419-3 03/17/24 09:54

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Benzene	U		0.0715	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichloroethane	U		0.0700	0.200
Ethylbenzene	U		0.0835	0.200
MTBE	U		0.0647	0.200
Naphthalene	0.554	J	0.350	0.630
Toluene	U		0.0870	0.500
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
(S) 1,4-Bromofluorobenzene	*93.1*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4047419-1 03/17/24 08:58 • (LCSD) R4047419-2 03/17/24 09:27

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	3.75	4.04	3.74	108	99.7	70.0-130			7.71	25
1,2-Dibromoethane	3.75	4.19	3.89	112	104	70.0-130			7.43	25
1,2-Dichloroethane	3.75	3.90	3.67	104	97.9	70.0-130			6.08	25
Ethylbenzene	3.75	4.24	3.96	113	106	70.0-130			6.83	25
MTBE	3.75	4.31	4.04	115	108	70.0-130			6.47	25
Naphthalene	3.75	4.18	3.83	111	102	70.0-159			8.74	25
Toluene	3.75	4.18	3.88	111	103	70.0-130			7.44	25
m&p-Xylene	7.50	8.75	8.12	117	108	70.0-130			7.47	25
o-Xylene	3.75	4.43	4.14	118	110	70.0-130			6.77	25
(S) 1,4-Bromofluorobenzene				*98.6*	*97.4*	*60.0-140*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
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Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
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Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Pace® Location Requested (City/State):

Air CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR code for instructions

I165

Company Name: **Dominion Due Diligence Group**

Street Address: 201 Wylderose Dr
Midlothian, VA 23113

City, State Zip:

Customer Project #: 2024-000563

Project Name: Arrington Manor - Columbia, South Carolina

Site Collection Info/Facility ID (as applicable): D3GVA-2024-000563

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [✓] ET

Contact/Report To: Mr. Ron James

Phone #: 804-358-2020

E-Mail: r.james@d3g.com;b.diehl@d3g.com;m.antal@d3g.com;i.court@d3g.com

Cc E-Mail:

Invoice to: Ian Court

Invoice E-Mail: i.court@d3g.com

Purchase Order # (if applicable):

Quote #:

State origin of sample(s): SC

Data Deliverables: [✓] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other

Regulatory Program (CAA, RCRA, etc.) as applicable:

Rush (Pre-approval required): 2 Day 3 day 5 day Other 7 day

Date Results Requested:

Permit # as applicable:

Units for Reporting: ug/m³ PPBV mg/m³ PPMV

Field Information

Analyses Requested

Proj. Manager: 3513 - Jennifer Huckaba

AcctNum / Client ID: D3GVA

Table #:

Profile / Template: T248508

Prelog / Bottle Ord. ID: P1061088

Lab Use Only

VIC 3/12/24

* Matrix Codes (Insert in Matrix box below): Ambient (A), Indoor (I), Soil Vapor (SV), Other (O)

Customer Sample ID	Matrix *	Summa Canister ID	Flow Controller ID	Begin Collection Date	Begin Collection Time	End Collection Date	End Collection Time	Canister Pressure / Vacuum Start Pressure / Vacuum (in Hg)	Canister Pressure / Vacuum End Pressure / Vacuum (in Hg)	PUF / FILTER Duration (minutes)	PUF / FILTER Flow Rate m³/min or L/min	PUF / FILTER Total Volume Sampled m³ or L	TO-15 Summa				Sample Comment
SG-1	SV	9239	20553	3-15	12:23	3-15	12:29	-30	-3	6			✓				-01
SG-2	SV	20328	12571	3-15	12:41	3-15	12:51	-29	-5	10			✓				-02
SG-3	SV	28676	12822	3-15	11:26	3-15	12:00	-30	-3	7			✓				-03
QA-1	A	20243	11935	3-15	11:27	3-15	11:33	-24	0	6			✓				-04
Trip blank													✓				-05

L1716008

Sample Receipt Checklist

COC Seal Present/Intact: ✓ Y N
COC Signed/Accurate: ✓ Y N
Bottles arrive intact: ✓ Y N
Correct bottles used: ✓ Y N

Airs Size: 5 1L ____ 6L ____ 1.4L
Tage Color: G__ R✓ P✓ B__
Tubing ___ Shunt ___

T/P#: ____

Customer Remarks / Special Conditions / Possible Hazards:

Collected By: d3G
Printed Name: Ian Court
Signature:

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C): Corrected Temp. (°C):

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Relinquished by/Company: (Signature): d3G — Date/Time: 3-15-24 14:00

Received by/Company: (Signature): [signature] — Date/Time: 3/16 09:30

Tracking Number:

Delivered by: In- Person Courier FedEX UPS Other

Page: ____ of: ____

Jennifer Huckaba

From: Ian Court <i.court@d3g.com>
Sent: Thursday, March 21, 2024 9:17 AM
To: Jennifer Huckaba
Subject: Columbia SC Projects

CAUTION: This email originated from outside Pace Analytical. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Jennifer,

Can you please change the project name on SGDs L1716187 and L1716008 to Arrington Manor, and the project numbers to 2024-000564.

Thank you!

Ian Court
Phase II Staff Environmental Scientist
E: i.court@d3g.com
A: 201 Wylderose Drive
Midlothian, Va. 23113

People, Innovation, Passion, Excellence

Attachment 8

Soil Vapor Sampling Logs

Soil Vapor Sampling Field Log

Project Name:	Arrington Manor
D3G Project Number:	2024-000564
Sample Installation Date:	3/15/2024
Sample Collection Date:	3/15/2024

Dominion Due Diligence Group (D3G)
201 Wylderose Drive
Midlothian, VA 23113
804.358.2020 (phone)
804.358.3003 (fax)

Soil Gas Sampling Point	Location of Installation			Total Depth (ft. bgs)	Exterior Observations (F°)	Summa Canister Pressure (in/Hg)	ID Numbers	Sampling Time (24 hours)	Field Observations (Moisture Content, Weather Conditions, PID Reading, laboratory analysis)
SG-1	Location: Advanced approximately 35 feet north of the 2225 College Street residential structure	Longitude:	Latitude:	5'	Humidity*: 57% Outside Temp: 73 Setup Temp. 73 Collection Temp. 73	Barometric*: 29.74 Lab: -29 Field Setup: -30 Field Collection: 0	Canister ID: 9239 Flow Meter ID: 20555	Date Started: 3/15/2024 Time: 1223 Date Collected: 3/15/2024 Time: 1229	PID Reading: 0.0; Winds SW @ 10mph; Mostly Cloudy
SG-2	Location: Advanced approximately 25 feet north of the 2225 College Street residential structure	Longitude:	Latitude:	5'	Humidity*: 73% Outside Temp: 69 Setup Temp. 69 Collection Temp. 69	Barometric*: 29.77 Lab: -29 Field Setup: -29 Field Collection: -5	Canister ID: 20328 Flow Meter ID: 12571	Date Started: 3/15/2024 Time: 1241 Date Collected: 3/15/2024 Time: 1251	PID Reading: 0.0; Winds W @ 12mph; Heavy T-Storm
SG-3	Location: Advanced approximately 26 feet west of the 2225 College Street residential structure	Longitude:	Latitude:	5'	Humidity*: 57% Outside Temp: 73 Setup Temp. 73 Collection Temp. 73	Barometric*: 29.74 Lab: -29 Field Setup: -30 Field Collection: -3	Canister ID: 28696 Flow Meter ID: 12829	Date Started: 3/15/2024 Time: 1156 Date Collected: 3/15/2024 Time: 1203	PID Reading: 0.6; Winds SW @ 10mph; Mostly Cloudy
OA-1	Location: OA-1 was placed approximately 33 feet east of the 2225 College Street residential structure.	Longitude:	Latitude:	N/A	Humidity*: 61% Outside Temp: 70 Setup Temp. 70 Collection Temp. 70	Barometric*: 29.76 Lab: -28 Field Setup: -29 Field Collection: 0	Canister ID: 20243 Flow Meter ID: 11935	Date Started: 3/15/2024 Time: 1127 Date Collected: 3/15/2024 Time: 1133	PID Reading: 0.0; Winds WSW @ 13mph; Smoke

Drilled By/With: D3G/The Probing Company

Sampled By: Ian Court

Additional Observations:

Attachment 9

USEPA VISL Calculator Results (SG-1 through SG-3)

Resident Air Inputs

Variable	Resident Air Default Value	Site-Specific Value
AF_{gw} (Attenuation Factor Groundwater) unitless	0.001	0.001
AF_{ss} (Attenuation Factor Sub-Slab) unitless	0.03	0.03
ED_{res} (exposure duration) years	26	26
ED_{0-2} (mutagenic exposure duration first phase) years	2	2
ED_{2-6} (mutagenic exposure duration second phase) years	4	4
ED_{6-16} (mutagenic exposure duration third phase) years	10	10
ED_{16-26} (mutagenic exposure duration fourth phase) years	10	10
EF_{res} (exposure frequency) days/year	350	350
EF_{0-2} (mutagenic exposure frequency first phase) days/year	350	350
EF_{2-6} (mutagenic exposure frequency second phase) days/year	350	350
EF_{6-16} (mutagenic exposure frequency third phase) days/year	350	350
EF_{16-26} (mutagenic exposure frequency fourth phase) days/year	350	350
ET_{res} (exposure time) hours/day	24	24
ET_{0-2} (mutagenic exposure time first phase) hours/day	24	24
ET_{2-6} (mutagenic exposure time second phase) hours/day	24	24
ET_{6-16} (mutagenic exposure time third phase) hours/day	24	24
ET_{16-26} (mutagenic exposure time fourth phase) hours/day	24	24
THQ (target hazard quotient) unitless	0.1	1
LT (lifetime) years	70	70
TR (target risk) unitless	1.0E-06	1.0E-06

Resident Vapor Intrusion Screening Levels (VISL)

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = DWSHA; W = TEF applied; E = RPF applied; U = user provided; G = see RSL User's Guide Section 5; CA = cancer; NC = noncancer.

Chemical	CAS Number	Does the chemical meet the definition for volatility? (HLC>1E-5 or VP>1)	Does the chemical have inhalation toxicity data? (IUR and/or RfC)	Is Chemical Sufficiently Volatile and Toxic to Pose Inhalation Risk Via Vapor Intrusion from Soil Source? ($C_{vp} > C_{i,a}$,Target?)	Is Chemical Sufficiently Volatile and Toxic to Pose Inhalation Risk Via Vapor Intrusion from Groundwater Source? ($C_{hc} > C_{i,a}$,Target?)	Target Indoor Air Concentration (TCR=1E-06 or THQ=1) MIN($C_{ia,c}$,$C_{ia,nc}$) (µg/m³)	Toxicity Basis	Target Sub-Slab and Near-source Soil Gas Concentration (TCR=1E-06 or THQ=1) C_{sg},Target (µg/m³)	Target Groundwater Concentration (TCR=1E-06 or THQ=1) C_{gw},Target (µg/L)	Is Target Groundwater Concentration < MCL? (C_{gw} < MCL?)
Benzene	71-43-2	Yes	Yes	Yes	Yes	3.60E-01	CA	1.20E+01	1.59E+00	Yes (5)

Pure Phase Vapor Concentration C_{vp}\ (25 ℃)\ (µg/m³)	Maximum Groundwater Vapor Concentration C_{hc}\ (µg/m³)	Temperature for Maximum Groundwater Vapor Concentration (℃)	Lower Explosive Limit LEL (% by volume)	LEL Ref	IUR (ug/m³)⁻¹	IUR Ref	RfC (mg/m³)	RfC Ref	Mutagenic Indicator	Carcinogenic VISL TCR=1E-06 $C_{ia,c}$ (µg/m³)	Noncarcinogenic VISL THQ=1 $C_{ia,nc}$ (µg/m³)
3.98E+08	4.06E+08	25	1.20	CRC	7.80E-06	I	3.00E-02	I	No	3.60E-01	3.13E+01

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Resident Vapor Intrusion Risk

Chemical	CAS Number	Site Sub-Slab and Exterior Soil Gas Concentration C_{sg}\ (µg/m³)	Site Indoor Air Concentration $C_{i,a}$\ (µg/m³)	VI Carcinogenic Risk CDI (µg/m³)	VI Carcinogenic Risk CR	VI Hazard CDI (mg/m³)	VI Hazard HQ	IUR (ug/m³)⁻¹	IUR Ref	Chronic RfC (mg/m³)	RfC Ref	Temperature (°C)\ for Groundwater Vapor Concentration	Mutagen?
Benzene	71-43-2	22.9	6.87E-01	2.45E-01	1.91E-06	6.59E-04	2.20E-02	7.80E-06	I	3.00E-02	I	25	No
*Sum		-	-	-	1.91E-06	-	2.20E-02	-		-		-	

Chemical Properties

Chemical	CAS Number	Does the chemical meet the definition for volatility? (HLC>1E-5 or VP>1)	Does the chemical have inhalation toxicity data? (IUR and/or RfC)	MW	MW Ref	Vapor Pressure VP (mm Hg)	VP Ref	S (mg/L)	S Ref	MCL (ug/L)	HLC (atm-m ^{3}/mole)	Henry's Law Constant (unitless)
Benzene	71-43-2	Yes	Yes	78.12	PHYSPROP	9.48E+01	PHYSPROP	1.79E+03	PHYSPROP	5	5.55E-03	2.27E-01

H` and HLC Ref	Henry's Law Constant Used in Calcs (unitless)	Normal Boiling Point BP (K)	BP Ref	Critical Temperature T_c\ (K)	T_c\ Ref	Enthalpy of vaporization at the normal boiling point $\Delta H_{v,b}$\ (cal/mol)	$\Delta H_{v,b}$\ Ref	Lower Explosive Limit LEL (% by volume)	LEL Ref
PHYSPROP	2.27E-01	353.15	PHYSPROP	5.62E+02	CRC	7342.26	CRC	1.20	CRC

Resident Air Inputs

Variable	Resident Air Default Value	Site-Specific Value
AF_{gw} (Attenuation Factor Groundwater) unitless	0.001	0.001
AF_{ss} (Attenuation Factor Sub-Slab) unitless	0.03	0.03
ED_{res} (exposure duration) years	26	26
ED_{0-2} (mutagenic exposure duration first phase) years	2	2
ED_{2-6} (mutagenic exposure duration second phase) years	4	4
ED_{6-16} (mutagenic exposure duration third phase) years	10	10
ED_{16-26} (mutagenic exposure duration fourth phase) years	10	10
EF_{res} (exposure frequency) days/year	350	350
EF_{0-2} (mutagenic exposure frequency first phase) days/year	350	350
EF_{2-6} (mutagenic exposure frequency second phase) days/year	350	350
EF_{6-16} (mutagenic exposure frequency third phase) days/year	350	350
EF_{16-26} (mutagenic exposure frequency fourth phase) days/year	350	350
ET_{res} (exposure time) hours/day	24	24
ET_{0-2} (mutagenic exposure time first phase) hours/day	24	24
ET_{2-6} (mutagenic exposure time second phase) hours/day	24	24
ET_{6-16} (mutagenic exposure time third phase) hours/day	24	24
ET_{16-26} (mutagenic exposure time fourth phase) hours/day	24	24
THQ (target hazard quotient) unitless	0.1	1
LT (lifetime) years	70	70
TR (target risk) unitless	1.0E-06	1.0E-06

Resident Vapor Intrusion Screening Levels (VISL)

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = DWSHA; W = TEF applied; E = RPF applied; U = user provided; G = see RSL User's Guide Section 5; CA = cancer; NC = noncancer.

Chemical	CAS Number	Does the chemical meet the definition for volatility? (HLC>1E-5 or VP>1)	Does the chemical have inhalation toxicity data? (IUR and/or RfC)	Is Chemical Sufficiently Volatile and Toxic to Pose Inhalation Risk Via Vapor Intrusion from Soil Source? ($C_{vp} > C_{i,a}$,Target?)	Is Chemical Sufficiently Volatile and Toxic to Pose Inhalation Risk Via Vapor Intrusion from Groundwater Source? ($C_{hc} > C_{i,a}$,Target?)	Target Indoor Air Concentration (TCR=1E-06 or THQ=1) MIN($C_{ia,c}$,$C_{ia,nc}$) (µg/m³)	Toxicity Basis	Target Sub-Slab and Near-source Soil Gas Concentration (TCR=1E-06 or THQ=1) C_{sg},Target (µg/m³)	Target Groundwater Concentration (TCR=1E-06 or THQ=1) C_{gw},Target (µg/L)	Is Target Groundwater Concentration < MCL? (C_{gw} < MCL?)
Benzene	71-43-2	Yes	Yes	Yes	Yes	3.60E-01	CA	1.20E+01	1.59E+00	Yes (5)

Pure Phase Vapor Concentration C_{vp}\ (25 ℃)\ (µg/m³)	Maximum Groundwater Vapor Concentration C_{hc}\ (µg/m³)	Temperature for Maximum Groundwater Vapor Concentration (℃)	Lower Explosive Limit LEL (% by volume)	LEL Ref	IUR (ug/m³)⁻¹	IUR Ref	RfC (mg/m³)	RfC Ref	Mutagenic Indicator	Carcinogenic VISL TCR=1E-06 $C_{ia,c}$ (µg/m³)	Noncarcinogenic VISL THQ=1 $C_{ia,nc}$ (µg/m³)
3.98E+08	4.06E+08	25	1.20	CRC	7.80E-06	I	3.00E-02	I	No	3.60E-01	3.13E+01

Output generated 27MAR2024:17:29:39

Resident Vapor Intrusion Risk

Chemical	CAS Number	Site Sub-Slab and Exterior Soil Gas Concentration C_{sg}\ (µg/m³)	Site Indoor Air Concentration $C_{i,a}$\ (µg/m³)	VI Carcinogenic Risk CDI (µg/m³)	VI Carcinogenic Risk CR	VI Hazard CDI (mg/m³)	VI Hazard HQ	IUR (ug/m³)⁻¹	IUR Ref	Chronic RfC (mg/m³)	RfC Ref	Temperature (°C)\ for Groundwater Vapor Concentration	Mutagen?
Benzene	71-43-2	51.7	1.55E+00	5.52E-01	4.31E-06	1.49E-03	4.96E-02	7.80E-06	I	3.00E-02	I	25	No
**Sum*		-	-	-	*4.31E-06*	-	*4.96E-02*	-		-		-	

Chemical Properties

Chemical	CAS Number	Does the chemical meet the definition for volatility? (HLC>1E-5 or VP>1)	Does the chemical have inhalation toxicity data? (IUR and/or RfC)	MW	MW Ref	Vapor Pressure VP (mm Hg)	VP Ref	S (mg/L)	S Ref	MCL (ug/L)	HLC (atm-m^3/mole)	Henry's Law Constant (unitless)
Benzene	71-43-2	Yes	Yes	78.12	PHYSPROP	9.48E+01	PHYSPROP	1.79E+03	PHYSPROP	5	5.55E-03	2.27E-01

H` and HLC Ref	Henry's Law Constant Used in Calcs (unitless)	Normal Boiling Point BP (K)	BP Ref	Critical Temperature T_c\ (K)	T_c\ Ref	Enthalpy of vaporization at the normal boiling point $\Delta H_{v,b}$\ (cal/mol)	$\Delta H_{v,b}$\ Ref	Lower Explosive Limit LEL (% by volume)	LEL Ref
PHYSPROP	2.27E-01	353.15	PHYSPROP	5.62E+02	CRC	7342.26	CRC	1.20	CRC

Resident Air Inputs

Variable	Resident Air Default Value	Site-Specific Value
AF_{gw} (Attenuation Factor Groundwater) unitless	0.001	0.001
AF_{ss} (Attenuation Factor Sub-Slab) unitless	0.03	0.03
ED_{res} (exposure duration) years	26	26
ED_{0-2} (mutagenic exposure duration first phase) years	2	2
ED_{2-6} (mutagenic exposure duration second phase) years	4	4
ED_{6-16} (mutagenic exposure duration third phase) years	10	10
ED_{16-26} (mutagenic exposure duration fourth phase) years	10	10
EF_{res} (exposure frequency) days/year	350	350
EF_{0-2} (mutagenic exposure frequency first phase) days/year	350	350
EF_{2-6} (mutagenic exposure frequency second phase) days/year	350	350
EF_{6-16} (mutagenic exposure frequency third phase) days/year	350	350
EF_{16-26} (mutagenic exposure frequency fourth phase) days/year	350	350
ET_{res} (exposure time) hours/day	24	24
ET_{0-2} (mutagenic exposure time first phase) hours/day	24	24
ET_{2-6} (mutagenic exposure time second phase) hours/day	24	24
ET_{6-16} (mutagenic exposure time third phase) hours/day	24	24
ET_{16-26} (mutagenic exposure time fourth phase) hours/day	24	24
THQ (target hazard quotient) unitless	0.1	1
LT (lifetime) years	70	70
TR (target risk) unitless	1.0E-06	1.0E-06

Resident Vapor Intrusion Screening Levels (VISL)

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = DWSHA; W = TEF applied; E = RPF applied; U = user provided; G = see RSL User's Guide Section 5; CA = cancer; NC = noncancer.

Chemical	CAS Number	Does the chemical meet the definition for volatility? (HLC>1E-5 or VP>1)	Does the chemical have inhalation toxicity data? (IUR and/or RfC)	Is Chemical Sufficiently Volatile and Toxic to Pose Inhalation Risk Via Vapor Intrusion from Soil Source? ($C_{vp} > C_{i,a}$,Target?)	Is Chemical Sufficiently Volatile and Toxic to Pose Inhalation Risk Via Vapor Intrusion from Groundwater Source? ($C_{hc} > C_{i,a}$,Target?)	Target Indoor Air Concentration (TCR=1E-06 or THQ=1) MIN($C_{ia,c}$,$C_{ia,nc}$) (µg/m³)	Toxicity Basis	Target Sub-Slab and Near-source Soil Gas Concentration (TCR=1E-06 or THQ=1) C_{sg},Target (µg/m³)	Target Groundwater Concentration (TCR=1E-06 or THQ=1) C_{gw},Target (µg/L)	Is Target Groundwater Concentration < MCL? (C_{gw} < MCL?)
Benzene	71-43-2	Yes	Yes	Yes	Yes	3.60E-01	CA	1.20E+01	1.59E+00	Yes (5)

Pure Phase Vapor Concentration C_{vp}\ (25 ℃)\ (µg/m³)	Maximum Groundwater Vapor Concentration C_{hc}\ (µg/m³)	Temperature for Maximum Groundwater Vapor Concentration (℃)	Lower Explosive Limit LEL (% by volume)	LEL Ref	IUR (ug/m³)⁻¹	IUR Ref	RfC (mg/m³)	RfC Ref	Mutagenic Indicator	Carcinogenic VISL TCR=1E-06 $C_{ia,c}$ (µg/m³)	Noncarcinogenic VISL THQ=1 $C_{ia,nc}$ (µg/m³)
3.98E+08	4.06E+08	25	1.20	CRC	7.80E-06	I	3.00E-02	I	No	3.60E-01	3.13E+01

Output generated 27MAR2024:17:30:37

Resident Vapor Intrusion Risk

Chemical	CAS Number	Site Sub-Slab and Exterior Soil Gas Concentration C_{sg}\ (µg/m³)	Site Indoor Air Concentration $C_{i,a}$\ (µg/m³)	VI Carcinogenic Risk CDI (µg/m³)	VI Carcinogenic Risk CR	VI Hazard CDI (mg/m³)	VI Hazard HQ	IUR (ug/m³)⁻¹	IUR Ref	Chronic RfC (mg/m³)	RfC Ref	Temperature (°C)\ for Groundwater Vapor Concentration	Mutagen?
Benzene	71-43-2	19.2	5.76E-01	2.05E-01	1.60E-06	5.52E-04	1.84E-02	7.80E-06	I	3.00E-02	I	25	No
**Sum*		-	-	-	*1.60E-06*	-	*1.84E-02*	-		-		-	

Chemical Properties

Chemical	CAS Number	Does the chemical meet the definition for volatility? (HLC>1E-5 or VP>1)	Does the chemical have inhalation toxicity data? (IUR and/or RfC)	MW	MW Ref	Vapor Pressure VP (mm Hg)	VP Ref	S (mg/L)	S Ref	MCL (ug/L)	HLC (atm-m^3/mole)	Henry's Law Constant (unitless)
Benzene	71-43-2	Yes	Yes	78.12	PHYSPROP	9.48E+01	PHYSPROP	1.79E+03	PHYSPROP	5	5.55E-03	2.27E-01

H` and HLC Ref	Henry's Law Constant Used in Calcs (unitless)	Normal Boiling Point BP (K)	BP Ref	Critical Temperature T_c\ (K)	T_c\ Ref	Enthalpy of vaporization at the normal boiling point $\Delta H_{v,b}$\ (cal/mol)	$\Delta H_{v,b}$\ Ref	Lower Explosive Limit LEL (% by volume)	LEL Ref
PHYSPROP	2.27E-01	353.15	PHYSPROP	5.62E+02	CRC	7342.26	CRC	1.20	CRC

Attachment 11

Geophysical/Ferromagnetic Survey Investigation Report

501 Cambria Avenue, Suite 281, Bensalem, PA 19020
215-366-7389
eastcoastgeophysics.com

Date:
3/28/2024

Site Location:
2225 College Street, Columbia, SC 29205

Attention:
Dominion Due Diligence Group (D3G)
201 Wylderose Drive, Midlothian, VA 23113

Regards:
Bradley Moore
East Coast Geophysics Inc.
501 Cambria Avenue Suite 281, Bensalem, Pennsylvania, 19020

1. BACKGROUND AND PROJECT OBJECTIVES

This report presents the findings of the geophysical survey completed at 2225 College Street, Columbia, SC on March 15, 2024. The survey consisted of accessible areas on the northside of the property. Surface conditions consisted of pavement, grass, and concrete. Site project objectives are:

- Locate and mark detectable underground utilities and/or anomalies within close proximity to client proposed soil boring locations.

2. EQUIPMENT

This project used the following equipment to perform the geophysical survey on the property:

- *GSSI SIR-4000 Cart Mounted Ground Penetrating Radar System*

Ground Penetrating Radar is a non-invasive geophysical method in which electromagnetic pulses probe the subsurface, allowing targets to be imaged in real time. The EM pulses that are transmitted into the subsurface are reflected from various interfaces within the ground, including soil horizons, ground water, and manmade features such as underground storage tanks and utilities. The GPR antenna consists of a transmitter, which is used to create the EM pulse, and a receiver which collects returning signals. The high frequency waves created by the antenna can be generated in a range of 10 MHz to 2.6 GHz. The frequency of the antenna will vary the depth of penetrations, signal clarity, and attenuation into the subsurface. The antenna used for general field work by ECG is 400 MHz; this frequency range has the capability to transmit to a depth of up to 10 feet below ground surface. Surface and subsurface conditions can greatly reduce the effective depth of the signal penetration; these conditions include conductive soils, slag/fill material and standing water.

- *Radiodetection RD7100+ and TX-5 Transmitter*

RD7000 is an advanced high-range precision utility detector capable of detecting utilities up to 15 feet below ground surface. The RD7000+ has the capability of locating a variety of pipes and cables using either passive or active modes. Passive signals can be traced with only the transmitter using "natural" signals present in many conductors. These signals can be generated from an array of sources including power cables, power system return currents, and long wave radio frequencies. Active signals are known AC frequencies induced onto a target pipe or cable. User induced signals can help positively identify lines throughout areas of congested utilities.

- *Fisher TW-6 Pipe and Cable Locator*

The Fisher TW-6 Pipe and cable locator uses electromagnetic induction to locate conductive materials, such as manholes, tanks, pipes, cables, and other metallic materials in the subsurface. The transmitter generates an AC current which produces an electromagnetic field similar to a dipole magnet. When the transmitter passes over a conductive feature, the generated electromagnetic field becomes distorted as a result of the interference with the natural electromagnetic field created by the conductive feature. The distortion of the generated field is detected by the receiver which emits a tone that is correlated to the conductivity of the feature.

3. PROCEDURE

ECG personnel begins with a utility survey utilizing active detection with the RD-7100+. This is performed by directly hooking up to known surface features across the site such as lamp posts, electric / communication boxes, and valves. The surveyor then performs a passive scan with the RD-7000+ receiver to detect any energized utilities that may have not been located with the active scan. Any detected utilities are then marked in the field.

ECG personnel then walk across the survey area with the TW-6 in 3-5 foot spacing increments. The approximate size and shape of any conductive targets detected is then marked in white marking paint to be further investigated with GPR.

GPR is then utilized to confirm the approximate depth of any utilities detected with the RD-7100+ and the size, shape, and depth of any anomalies located with the TW-6.

4. RESULTS

- No anomalies were detected in close proximity to the client proposed soil boring location or around the generator on the north side of the property.
- Underground Utilities – The following utilities were detected within close proximity to the boring location: gas, water, storm sewer, and electric.

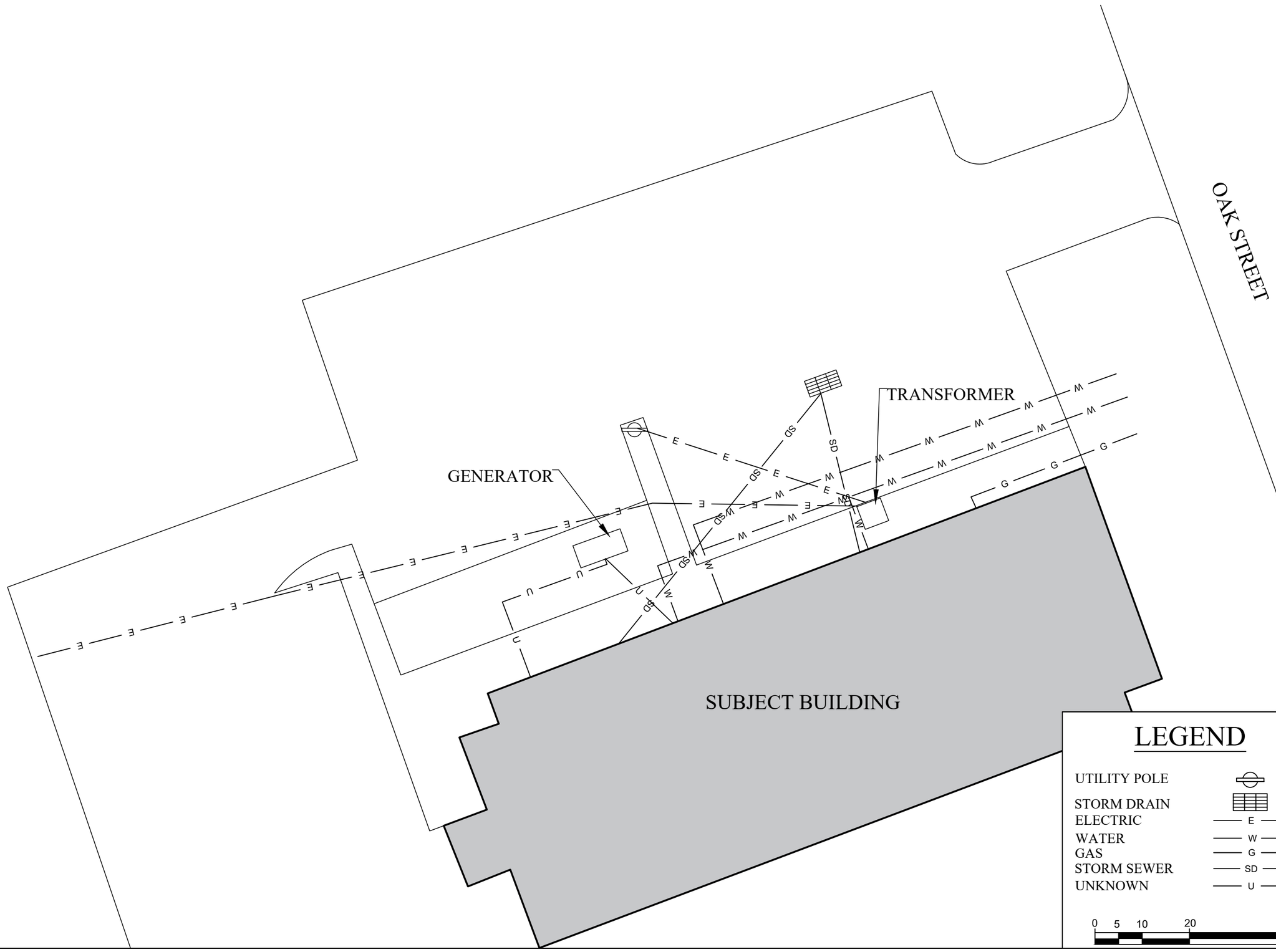
Site map (032824) is attached portraying all detected subsurface features.

5. SITE LIMITATIONS

- Ground Penetrating Radar - GPR depth of penetration was limited to 0-3 feet bgs. The limiting factor can be due to conductive soils limiting the depth of signal penetration.
- The TW-6 cannot be utilized within close proximity to parked vehicles, reinforced concrete, or any other large metallic features.

6. DISCLAIMER

The limitations of a geophysical survey from both the site and equipment are important to consider when performing intrusive work at a survey site. The equipment is unable to maintain a constant depth of penetration or a constant level of effectiveness over the course of a survey due to subsurface and environmental conditions. The results provided both in this report and in the field should be used in conjunction with other methods including but not limited to, site plans, as-builts, sanborn maps, field observations, public-mark out services, soft-digging, pre-clearing, and historical documentation of the site. No survey or survey method can accurately show an exact image of all subsurface conditions. The presence of non-detectable subsurface utilities and structures is always a risk at any site. Please take caution when proceeding with invasive work.



EAST COAST GEOPHYSICS, INC.

SITE
2225 COLLEGE ST,
COLUMBIA, SC

CLIENT
D3G

DRAWING NO.
032824

PROJECT NO.
031524

SHEET NO.
1 OF 1

SCALE
1 : 20

DATE
03/28/2024

DRAWN
BAM

N

NOTES:

East Coast Geophysics, Inc. shall not be liable for damages of any kind arising out of the use of this information. Drawings are georeferenced based on satellite imagery and are not considered to be survey quality. These drawings are intended to be used as reference only.

Appendix L:

Wetlands Exhibit W

EXHIBIT W

Identification of Wetlands

Company:_____

Development: Arrington Manor

Development Location: 2225 College Street, Columbia, SC 29205

County: Richland Acres: 0.71

X I certify that the development listed above **does not** contain jurisdictional and non-jurisidictional wetlands.

_____ I certify that the development listed above **does** contain jurisdictional and/or non-jurisidictional wetlands and the proposed development will not disturb the wetlands. The wetlands are _____ (acres) in size, rendering the buildable percentage at _____%.

I have provided the following:

1. National Wetlands Inventory (NWI) map
2. My credentials that qualify me to make this determination.

Financial Interest: Neither I nor the company I work for have any financial interest in the proposed LIHTC application other than in the practice of our profession.

Margaret Monnett

Digitally signed by Margaret Monnett
DN: cn=Margaret Monnett, c=US, o=Dominion Due Diligence Group, email=m.monnett@d3g.com
Date: 2024.05.07 08:50:22 -04'00'

5/7/2024

Signature and Certification of Wetlands Professional Date

Margaret Monnett

Name of Wetland Professional

_____ _____

Signature and Certification of Development Owner Date

_____

Name of Developer

U.S. Fish and Wildlife Service
National Wetlands Inventory

Arrington Manor, Columbia, SC

May 7, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

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 Wetlands Inventory (NWI)
This page was produced by the NWI mapper

Society of Wetland Scientists
Professional Certification Program, Inc

grants the designation

Professional Wetland Scientist

For

Margaret Monnett

In recognition of all the professional requirements approved by the Society of Wetland Scientists Certification Program, Inc. and verified by the Society's Certification Review Panel on 6/8/2021.
Professional Wetland Scientist number 3395. Due to recertify by 6/8/2026.

Kimberli J. Ponzio, PWS
President

Robert D. Shannon, Ph.D., PWS
Review Panel Chair