

PHASE I ENVIRONMENTAL SITE ASSESSMENT

**FULTON GAS WORKS
3301 WILLIAMSBURG AVENUE
RICHMOND, VIRGINIA 23223**

PREPARED FOR:

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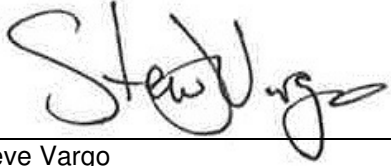
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STATEMENT OF QUALIFICATIONS

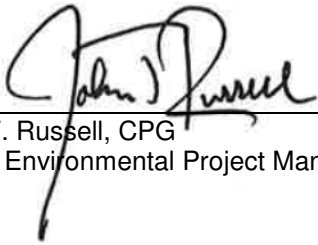
We declare to the best of our professional knowledge and belief that this report was prepared in accordance with American Society of Testing and Materials (ASTM) Standards. We further declare that we meet the definition of Environmental Professional as defined in 312.10 of Title 40 of the Code of Federal Regulations (40 CFR) Part 312 and have the specific qualifications based on education, training, and experience to assess the nature, history, and setting of the Subject Property. We have developed and performed the "all appropriate inquiries" in conformance with the standards and practices set forth in 40 CFR Part 312.



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1.0 EXECUTIVE SUMMARY

At the request of the City of Richmond Department of Public Utilities (hereafter the “Client”), and in accordance with 40 CFR Part 312, and ASTM Standard E 1527-13, Timmons Group has prepared a Phase I Environmental Site Assessment (ESA) of one (1) property of approximately 7.9 acres located at 3301 Williamsburg Avenue in the City of Richmond, Virginia (hereafter the “Subject Property”, “Subject Site” or “Site”). Based on our understanding, the Site is being evaluated for renovation and reuse by the City of Richmond.

This assessment was performed to identify Recognized Environmental Conditions (RECs) associated with the Subject Site or adjoining properties based on a review of reasonably available environmental resource information and/or site observations. RECs are defined by ASTM Standards as “*the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property due to release to the environment; under conditions indicative of a release to the environment or under conditions that pose a material threat of future release.*”

Likewise, this Phase I ESA evaluated the presence of Historical RECs (HRECs) and/or Controlled RECs (CRECs) as defined by ASTM Standards. A HREC is defined as “*an environmental condition which in the past would have been considered a REC, but which may or may not currently be considered a REC.*” A CREC is defined as “*a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (e.g., property use restrictions, activity use limitations, institutional controls and/or engineering controls).*”

Site Description

The Subject Property is comprised of one (1) parcel totaling approximately 7.9 areas located at 3301 Williamsburg Avenue in the City of Richmond, Virginia. The Site is currently improved as a former coal gasification plant.

Environmental Conditions on the Subject Property

The results of the Phase I ESA identified a combination of RECs and HRECs for the Subject Property as defined by ASTM Standard E 1527-13. Under the conditions of proposed property redevelopment and associated land disturbance, the identified HRECs also represent RECs.

- **Hazardous Substances and/or Petroleum Products**

Fulton Gas Works was a manufactured gas plant that burned coal and oil to derive volatiles (natural gas) for use as a residential and industrial fuel source. The plant produced coal gas from approximately 1856 through the 1950’s. The passage below in conjunction with site observations presents evidence supporting the high probability of hazardous substance(s) and/or petroleum product(s) concentrations being present onsite.

As detailed by the U.S. Environmental Protection Agency (EPA) regarding manufactured gas plant sites:

Due to the immense amounts of coal which could be handled per year, manufactured gas plant sites often have very large wastewater lagoons and coal tar pits. Common waste products encountered at Superfund assessment and remediation projects include high concentrations of polynuclear aromatic hydrocarbons (PAHs), sulfur compounds, complex cyanide compounds and lower concentrations of volatile and phenolic compounds. These wastes are concentrated in a dense, aromatic coal tar and associated waste waters. This coal tar waste is typically found in large on-site pits, many of which are over 20 feet deep. The metals concentration

accumulated in the ash collection system is dependent on the content of the original fuel. The most common metals include aluminum, iron, lead, nickel, and chromium. The ash may be encountered on site mixed with the coal tar or as a separate waste pile. Other inorganic compounds are not typically encountered at significant levels.

Groundwater may be contaminated as a result of leaching or percolation of surface and subsurface contaminants, surface impoundments and leaking process lines and tanks.

Additionally, contaminated buildings and the associated demolition debris may be encountered at abandoned or inactive sites. Associated heat transmission equipment may contain significant amounts of asbestos. Decontamination, asbestos remediation, and wipe testing of this material may be required prior to off-site landfill disposal or scrapping of process equipment.

Based on the above and considering the various evidence alluding to the presence of hazardous materials and/or petroleum concentrations onsite, the historical operations at Fulton Gas Works represent a REC to the Subject Property.

- Storage Tanks

Based on the review of historical aerial photographs and Sanborn maps, Fulton maintained underground tar cisterns and large, vertical, cylindrical crude oil aboveground storage tanks (ASTs) from as early as 1905 until its closing in the 1950s. The ASTs have since been removed but site observations indicate that the cisterns may still be present; a partially exposed underground storage tank (UST) was observed to the east of the main collection of buildings that was open to the elements and found to be full of a petroleum-based mixture. Based on the above, the collection of tanks and former bulk storage of petroleum products on the Subject Property represents a REC to the Subject Property.

- Vapor Migration

The previous/historical storage of petroleum and coal tar on the Subject Property denotes a contemporary source for subsurface vapors that, under the influence of topographic and/or hydraulic gradients, has the potential to migrate across the Subject Property and onto adjoining properties. Accordingly, the contemporary potential for vapor migration resulting from the historic presence of petroleum and coal tar represents a REC.

- Polychlorinated Biphenyls (PCBs)

A cluster of three (3) electrical transformers is mounted on a single utility pole in the central area of the Subject Property. The transformers are not labeled with non-PCB placards and are in fair to poor condition but have been disconnected from usage. Based on their suspected age, condition, and likely construction details, the transformers represent a potential REC to the Subject Property.

Based on the age and nature of the mechanical equipment utilized over the course of facility operation as a coal gas manufacturing plant, the usage of PCB fluids is suspected which represents a potential REC to the Subject Property.

- Stained Soil/Pavement and/or Stressed Vegetation

Stained soil and stressed vegetation are present in the southeastern area of the Subject Property which is downgradient from the main buildings of Fulton Gas Works. The staining and stressed vegetation in combination with the detection of odors, as described below, represents a REC.

- Odors

The area of stained soils and stressed vegetation located in the southeastern area of the property was noted to be generating a strong petroleum-like odor. The odor, in combination with the previously described staining and stressed vegetation, represents a REC.

- Railroads

Railroad tracks do not presently transect the Subject Property. However, based on review of

historical aerial photographs and Sanborn maps, a feeder line to a series of railroad spurs historically entered the Subject Property from the main line along the northern boundary and circled around to the southern area of the Site. Railroad tracks are historically suspect sources of environmental impact based on the previous burning of coal as a fuel source and the associated particulate fallout which commonly contains elevated concentrations of heavy metals. Accordingly, the potential exists for heavy metal concentrations to be prevalent in the surficial soils onsite. As a result, the former presence of railroad tracks across the Subject Property represents a REC.

Environmental Conditions on Adjoining Properties

Presently, the overall Subject Property is bordered to the north by Newton's Bus Service, CSX Railroad and Williamsburg Avenue; to the east by Williamsburg Avenue, a former railroad corridor/undeveloped green space, and property under construction as the future parking lot for Stone Brewery; to the south by Gillies Creek, CSX railroad, undeveloped woodlands and Stone Brewery (under construction); and to the west by Gillies Creek, CSX railroad, a parking lot, and undeveloped woodlands with East Main Street beyond. As a result of site reconnaissance and reviewed resource data, the following HRECs and RECs were identified for the adjoining properties. Under the conditions of proposed property renovation and associated land disturbance, the identified HRECs also represent RECs.

- Hazardous Substances and/or Petroleum Products
No overt evidence of hazardous substances and/or petroleum products was observed on the adjoining properties during the site inspection; however, as indicated by reviewed resource data, the northern and eastern adjoining properties were previously improved for industrial uses from the late 19th Century through the 1970's which included the above ground bulk storage of petroleum in excess of 2-million gallons. Overall, the historical industrial nature of the northern and eastern adjoining properties represents a potential HREC which translates to a contemporary REC.

Currently, Newton's Bus Service which is located north-adjacent and at a higher elevation maintains two (2) ASTs with individual volumes estimated in excess of 5,000 gallons that are suspected to be used for petroleum storage. A catastrophic release from either of these tanks would have the potential to impact the northern extent of the Subject Property; accordingly, these tanks represent a potential REC.

- Storage Tanks
As previously stated, the two (2) bulk petroleum ASTs located on the northern adjoining Newton's Bus Service facility represent a potential REC.
- Vapor Migration
Although minimal evidence was observed as a result of the site reconnaissance, the recorded historic presence of hazardous materials and/or petroleum products on the northern and eastern adjoining properties denote a contemporary source for subsurface vapors that, under the influence of topographic and/or hydraulic gradients, have the potential to migrate onto and across the Subject Property. Accordingly, the contemporary potential for vapor migration resulting from the historic presence of hazardous materials on the adjoining properties represents a REC.
- Railroads
An active railroad trestle comprised of two (2) sets of tracks currently extends northwest-southeast along the western boundary of the Subject Property. Likewise, a single-track line extends along the northern boundary of the Subject Property that crosses Williamsburg Avenue and a former elevated railroad spur extended along the eastern property boundary. Railroad tracks are historically suspect sources of environmental impact based on the previous burning of coal as a fuel source and the associated particulate fallout which commonly contains elevated concentrations of heavy metals. Accordingly, the potential exists for heavy metal concentrations to be prevalent in the surficial soils onsite. As a result, the potential generation of fugitive dust during the redevelopment of the Subject Property represents a REC.

Previous Reports

Timmons Group acquired/reviewed two (2) previously prepared reports that encompassed the Subject Property and presented an evaluation of the geotechnical and subsurface environmental conditions at random locations across the defined study area. A total of six (6) borings were advanced into the subsurface for the purpose of collecting soil and groundwater samples of which two (2) were located within the site boundaries of this Phase I ESA. The resulting data indicated the presence of multiple contaminants that exceed regulatory reporting requirements; however, most were below Virginia Department of Environmental Quality (DEQ) – Voluntary Remediation Program (VRP) Tier II Screening Levels.

However, as with any subsurface investigation to evaluate environmental contamination, the sampling locations and the associated analytical results should be considered as isolated data points that do not represent homogeneous conditions across the study area.

Data Gaps

No data gaps were encountered during the completion of this report.

Conclusions and Recommended Response Actions

Timmons Group completed a Phase I ESA of one (1) parcel totaling approximately 7.9 acres located at 3301 Williamsburg Avenue in the City of Richmond, Virginia; as a result, RECs and RECs originating from HRECs were identified for the Subject Property and adjoining properties as defined by ASTM Standard E 1527-13. Timmons Group therefore recommends the completion of a Phase II ESA to more comprehensively evaluate potential risks that could originate from the identified RECs and materialize during property redevelopment. In addition to subsurface soil/groundwater sampling and surficial soil sampling, Timmons Group recommends the inclusion of a soil gas survey through the existing building foundation slabs to be scheduled for renovation. As a matter of reference, Timmons Group recommends reviewing the non-scope considerations in the following section.

Non-Scope Considerations

As a measure of business environmental risk, Timmons Group completed an additional evaluation of onsite factors that could potentially present a material environmental or environmentally-driven impact to the Subject Property, not necessarily limited to the mandatory requirements of environmental assessment per ASTM Standard E 1527-13. The results are as follows:

- ***Cultural/Historic Resources***

According to the Department of Historic Resources (DHR) Virginia Cultural Resource Information System (V-CRIS), the Subject Property is eligible for listing on the Virginia Landmarks Register (VLR) and the National Register of Historic Places (NRHP) which is detailed below.

DHR ID 127-6255 (Subject Property): Fulton Gas Works, or historically known as Richmond (Municipal) Gas Works, was constructed in the 1850s to accommodate the high demand gas. The original buildings were demolished and new ones were placed in their stead circa 1925. As of 1916, the Richmond Gas Works produced manufactured gas using two different methods; coal gas and water gas. This resource is identified as eligible for listing on the VLR and NRHP.

Because the goal of the project is to renovate the historic buildings and re-use the Site, the overall historical significance will be preserved and improved. Timmons Group nonetheless recommends communicating with DHR prior to and throughout the renovation process.

- ***Asbestos-Containing Materials***

Based on site reconnaissance and the age of the onsite structures, construction may have

incorporated the use of asbestos-containing materials (ACMs). An ACM assessment is therefore necessary prior to the renovation of the buildings on the Subject Property.

- Mold
Based on the age of the structures and their “openness” to outside air, mold growth is suspected within the buildings on the Subject Property. A mold inspection followed by proper abatement as necessary will be required prior to renovation and reuse.
- Lead-based Paint
Interior and exterior details of several buildings on the Subject Property are suspected to have been finished with lead-based paint (LBP). Accordingly, a LBP survey should be completed prior to building renovation and/or select demolition.

2.0 INTRODUCTION

2.1 General Site Description

The Subject Property is comprised of one (1) property totaling approximately 7.9 acres located at 3301 Williamsburg Avenue in the City of Richmond, Virginia (Appendix 1). The details of the Site as indicated by the City of Richmond Real Estate Search Program are presented below with additional details provided in Appendix 2.

Tax Parcel ID Number	Address	Acreage	Zoning	Property Class
E0000738009	3301 Williamsburg Avenue	7.9	M-2 – Heavy Industrial	511 – B Light Industrial

2.2 Current Use of the Subject Property

The Site is currently vacant and improved as a former manufactured gas plant.

2.3 Description of Site Structures

Several vacant and dilapidated buildings currently occupy the Site along with the frame for a gasometer and various structures affiliated with the former gas manufacturing facility.

2.4 Site Utilities

To the best of understanding, the Subject Property is not currently connected to active public utilities. According to the City of Richmond Department of Public Utilities (DPU) mapping, the municipal service mains for various utilities extend beneath or alongside the peripheral roadways from which inactive/disconnected service lines likely extend onto the Subject Property.

2.5 Current Use of Adjoining Properties

The following table identifies the usage of the adjoining properties.

Adjoining Properties	
North:	Newton's Bus Service, CSX Railroad and Williamsburg Avenue
East:	Williamsburg Avenue, a former railroad corridor/undeveloped green space, and property under construction as the future parking lot for Stone Brewery
South:	Gillies Creek, CSX railroad, undeveloped woodlands, and Stone Brewery (under construction)
West:	Gillies Creek, CSX railroad, a parking lot, and undeveloped woodlands with East Main Street beyond

2.6 Purpose and Scope of Services

This Phase I ESA was conducted in accordance with 40 CFR part 312 and ASTM Standard E 1527-13. The assessment was performed to identify RECs based on a review of reasonably accessible environmental resource information and/or site observations indicating evidence of a release or the threat of release of oil or hazardous materials on or in the vicinity of the Site. RECs are defined by ASTM as

“the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property due to release to the environment; under conditions indicative of a release to the environment or under conditions that pose a material threat of future release.” The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include *de minimis* conditions that *“generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate government agencies.”*

The purpose of this report is to provide the Client with a Phase I ESA of one (1) property totaling approximately 7.9 acres located at 3301 Williamsburg Avenue in the City of Richmond, Virginia. The scope of work for preparing this assessment included:

- Reviewing reasonably accessible State and Federal environmental regulatory records,
- Site reconnaissance,
- Interviews,
- Reviewing and evaluating reasonably accessible historical maps and data regarding the Subject Property and immediate vicinity, and
- Preparing a Phase I Environmental Site Assessment Report.

2.7 Limitations and Exceptions of the Assessment

This report was prepared solely for the use of the Client in accordance with the agreed upon scope of services. The conclusions provided in this report are based only on the information contained in this document. Additional information with respect to this site or nearby sites, which was not available at the time this assessment was prepared, could modify the conclusions stated herein. This report has been prepared in accordance with the ASTM Standard E 1527-13; no other warranty, expressed or implied, is made as to the professional advice provided under the terms of the agreement between the Client and Timmons Group, as discussed below.

Timmons Group was retained to complete an updated Phase I ESA to re-evaluate the presence of RECs and/or areas of potential environmental concern either onsite or on the adjoining properties that could affect the environmental integrity of the Subject Property. In addition, this Phase I ESA is only valid up to one hundred eighty (180) days prior to the date of acquisition. No estimates, plans or specifications, soil and/or groundwater testing, asbestos inspection, lead-based paint inspection, geotechnical or remedial recommendations or activities other than described herein were included under the scope of services.

2.8 Special Terms and Conditions

No special terms or conditions applied to the completion of this Phase I ESA.

2.9 Methodology Used

This Phase I ESA was performed in conformance with the scope and limitations of ASTM Standard E 1527-13. Timmons Group reviewed reasonably available State and Federal environmental regulatory records, historical maps and data regarding the Subject Property and immediate vicinity. The User (i.e., the party for whom the Phase I ESA was prepared), current landowner and government officials were contacted, as necessary, to obtain additional information pertaining to the Subject Property. A site reconnaissance was conducted by Timmons Group on August 12, 2015, to determine if any RECs and/or areas of potential environmental concern were present on the Subject Property.

2.10 User Reliance

This Phase I Environmental Site Assessment (the “Report”) was prepared for the exclusive use of the Client along with designated successors and/or assigns, and reliance is accordingly extended to designated third parties. All limitations and conditions associated with the Report therefore remain in

effect, and transfer along with this authorization of reliance. Reliance is subject to the scope of work and the terms and conditions under which the Report was prepared for the Client.

3.0 USER PROVIDED INFORMATION

In order to qualify for one of the Landowner Liability Protections (LLPs) under CERCLA, the User must complete the ASTM Standard E 1527-13 User Questionnaire. Failure to provide this information could result in the determination that the “all appropriate inquiry” is not complete and, therefore, the forfeiture of CERCLA protection. However, for this Phase I ESA, the User is also the current property owner; accordingly, the User Questionnaire was completed by Mr. Daniel Rifenburg of the City of Richmond DPU. Overall, Mr. Rifenburg indicated that based on the history of the site, DPU believes that the presence of contamination on the Site is likely. The completed form is included in Appendix 3.

4.0 RECORDS REVIEW

4.1 *Physical Setting*

4.1.1 Regional Geology

As illustrated by the Geologic Map of Virginia, the Subject Site is located in the Coastal Plain Physiographic Province in close proximity to the Fall Line which is the boundary separating the Coastal Plain Province from the westward Piedmont Physiographic Province. In general, the Coastal Plain is underlain by a wedge of unconsolidated to semi-consolidated, predominantly clastic sedimentary rocks that consist of mostly sand, silt and clay with lesser amounts of gravel and limestone. Coastal plain formations thicken seaward from a feather edge at their updip limit along the Fall Line, where they overlie older metamorphic, igneous, and consolidated sedimentary rocks of the Piedmont Province, and attain thicknesses ranging from approximately 3,500 to 6,500 feet along the coast (Meisler and Miller, 1988).

According to the Geologic Map of Virginia (1993), the Subject Property is underlain by Lower Tertiary Deposits which is described below:

Lower Tertiary Deposits: glauconitic sand and clay-silt, shelly in part, minor sandy limestone and limey sand.

At depth, the Subject Site is further underlain by the Petersburg Granite of the Piedmont Physiographic Province which is generally described as pink to blue faintly foliated coarse grained granite with a high relative hardness.

4.1.2 Regional Hydrology

The 1994 U.S. Geological Survey (USGS) 7.5 Minute topographic map for the Richmond, Virginia Quadrangle was reviewed to extrapolate groundwater characteristics in the area of the Subject Property. As a result, groundwater is determined to flow to the south and west under the influence of the James River which is located approximately 600 feet west of the Subject Property. As the Site is located below the rapids at downtown Richmond, groundwater flow may also be affected by the tidal influence on the lower James River.

Gillies Creek, which borders the Subject Property to the south and west, offers no effect to groundwater flow since the stream channel is lined with concrete.

4.1.3 Topography

According to the 1994 USGS 7.5 Minute topographic map for the Richmond, Virginia Quadrangle and visual observations, the topography of the Subject Property is relatively flat with a slight gradient to the south and an average elevation of approximately 20 feet above mean sea level (Appendix 1).

4.1.4 Soils

A copy of the U.S. Department of Agriculture (USDA), Natural Resources Conservation Service, Web Soil Survey map and associated data for the City of Richmond is included in Appendix 1. The underlying soils are classified as approximately 100% Udorthents-Dumps complex-pits. Furthermore, the underlying soils are not classified as prime farmland or farmland of statewide importance.

The definition of the soil unit as detailed by the USDA Web Soil Survey for the City of Richmond is as follows:

Udorthents-Dumps Complex-Pits

Definition

Udorthents are deep or very deep, well drained or somewhat excessively drained, nearly level to very steep, loamy and clayey soils. These soils are mainly on summits and side slopes in the uplands. They mostly consist of overburden and waste rock that have been stockpiled during quarrying or mining and soil material that has been cut and filled during road or building construction. These soils occur in or near quarries and mines, along highways, and near large buildings. Slope ranges from 0 to 45 percent. Because of the variability of these soils, a typical profile is not given.

Dumps include areas of exposed and buried human refuse. Because of the variability of the material, a typical profile is not given.

Use and Management Considerations

Onsite investigation is needed to determine the suitability of any area for specific use.

4.1.5 Floodplain

Flood Insurance Rate Map (FIRM) #5101290043D with an effective date of July 16, 2014 published by the Federal Emergency Management Agency (FEMA) for the City of Richmond, Virginia was used to determine if the Subject Property is located within a floodplain. According to the FIRM, the entirety of the Subject Property is located in Zone AE. Zone AE is identified as a floodplain within the area of the 1% annual chance flood (Appendix 1).

4.1.6 Wetlands

The National Wetland Inventory Map for the City of Richmond, Virginia depicts a small pocket of palustrine emergent (PEM) wetlands on the Subject Property (Appendix 1). Gillies Creek to the south and west is identified as riverine; however, flow is confined to the concrete lined channel.

4.2 Regulatory Database Review

A computer regulatory database search was conducted by Environmental Data Resources, Inc. (EDR) to identify current and/or past uses of the Subject Site and surrounding properties that may have had a previous release, or could present the material threat of a future release, of oil and/or hazardous materials resulting in a potential impact to the site or surrounding environment (Appendix 4). Timmons Group reviewed the databases at the ASTM-specified search radii detailed by the following table.

Federal Databases	Search Radius	EDR Access Date
NPL (National Priority List)	1 mile	07/09/2015
CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System)	0.5 mile	05/29/2015
CERCLIS-NFRAP (No Further Remedial Action Planned)	0.5 mile	05/29/2015
CORRACTS (Corrective Action Report)	1 mile	06/26/2015
RCRA-TSDF (Resource Conservation and Recovery Act-Treatment, Storage and Disposal Facilities)	0.5 mile	06/26/2015
RCRA-LQG/SQG (Large/Small Quantity Generators)	0.25 mile	06/26/2015

(Continued)

Federal Databases	Search Radius	EDR Access Date
RCRA-CESQG (Conditionally Exempt Small Quantity Generators)	0.25 mile	06/26/2015
US Engineering Controls	0.5 mile	06/01/2015
US Institutional Controls	0.5 mile	06/01/2015
ERNS (Emergency Response Notification System)	Subject Property Only	06/26/2015
US Brownfields	0.5 mile	06/24/2015
State Databases	Search Radius	EDR Access Date
SHWS (State Hazardous Waste Site)	N/A	06/18/2015
Solid Waste Management Facilities/Landfill Facilities (SWF/LF)	0.5 mile	06/04/2015
LUST (Registered Leaking Underground Storage Tanks)	0.5 mile	06/01/2015
LTANKS (Leaking Petroleum Storage Tanks)	0.5 mile	06/03/2015
UST (Registered Underground Storage Tanks)	0.25 mile	06/03/2015
AST (Registered Aboveground Storage Tanks)	0.25 mile	06/03/2015
VRP (State Voluntary Remediation Program Sites)	0.5 mile	09/29/2014

4.2.1 Federal Database Review

According to the EDR Radius Map™ Report with GeoCheck® (Appendix 4), the Subject Property is not listed on any of the reviewed federal databases. However, the database search identified one (1) CERC-NFRAP, two (2) CORRACTS, and one (1) US Brownfields site(s) within their effective search radii at an equal or higher elevation to the Subject Property as detailed below.

It should be noted EDR erroneously identified the Subject Property as owned/operated by DANCO which has a property address of 3301 Williamsburg Road, not 3301 Williamsburg Avenue which is the correct Subject Property address. The listings associated with the DANCO facility have therefore been labeled erroneous for the purpose of clarification.

Site Name/Address	Regulatory Database	Distance	Details
Lehigh Cement 3011 Water Street	US Brownfields	0.077 mile	A brownfields grant was utilized to complete a Phase I ESA in suspected response to state listings
(Former) Crown Central Petroleum Corp. 4405 East Main Street	CERC- NFRAP	0.132 mile	CERC-NFRAP status acquired in 1984; the facility is additionally and currently classified as a RCRA-Non Generator; also previously characterized as RCRA-LQG and RCRA-SQG with regulatory violations issued from 1992-2000, all were resolved to compliance
Hyman Viener and Sons 5300 Hatcher Street	CORRACTS	0.795 mile	EPA ID VAD0031 12364: applied to the entire facility; referred to CERCLA for storage/transportation issues assessed/ reported between 1985 and 1994 with material removal occurring as corrective action from 1994 to 2002; the site was archived in 2010

(Continued)

Site Name/Address	Regulatory Database	Distance	Details
FEC Bioremediation Facility 200 Maury Street	CORRACTS	0.898 mile	The site is on the other side of the James River – NO POTENTIAL RISK

Based on regulatory status and/or distance in conjunction with groundwater gradients, the sites identified by the federal database search do not represent RECs to the Subject Property.

4.2.2 State Database Review

According to the EDR Radius Map™ Report with GeoCheck® (Appendix 4), the Subject Property is erroneously listed as owned/operated by DANCO which has a property address of 3301 Williamsburg Road, not 3301 Williamsburg Avenue which is the correct Subject Property address. Likewise, EDR erroneously identifies the Site as a historical automobile station in addition to being correctly listed as a former gas manufacturing plant. The erroneous listings have been labeled as such within the EDR report for the purpose of clarification.

In addition to the Subject Property, the database search identified seventeen (17) LUST/LTANKS, two (2) LTANKS, five (5) UST, two (2) AST, one (1) VA Engineering/Institutional Control, and two (2) VRP sites(s) within the effective search radii as detailed by the table below. All of the identified sites are listed by EDR as being located at an equal or higher elevation to the Subject Property; however, the majority of the sites are actually located downgradient with regard to the direction of groundwater flow and are inconsequential.

Site Name/Address	Regulatory Database	Distance	Details
Lehigh Portland Cement Company 3111 Water Street	LUST/LTANKS UST	0.085 mile	(LUST/LTANKS) PC #19901282 has been closed (UST) (2) 5,000 gallon (gal) diesel USTs (RFG)
Richmond Capital Trail 3111 Water Street	LUST/LTANKS	0.085 mile	PC #20134384 has been closed
Intermediate Terminal City of Richmond 3101 Wharf Street	LUST/LTANKS	0.111 mile	PC #20074563 has been closed
108 Nicholson Street	LTANKS	0.117 mile	PC #20154425 has been closed
Tarmac Ready Mixed Concrete Plant 3011 Dock Street	LUST/LTANKS UST	0.119 mile	(LUST/LTANKS) PC #19910630 and #19942762 have been closed (UST) (2) 3,000 gal diesel (RFG) (2) 1,000 gal diesel (RFG) (4) 4,000 gal diesel (RFG) (1) 2,000 gal diesel (RFG) (1) 10,000 gal diesel (RFG)
116 Nicholson Street	LTANKS	0.120 mile	PC #20154423 has been closed
Lone Star Richmond Truck Stop 111 N Nicholson Street	LUST/LTANKS	0.121 mile	PC #19940384 has been closed

(Continued)

Site Name/Address	Regulatory Database	Distance	Details
Tarmac Lone Star Richmond Truck Shop 111 N Nicholson Street	UST AST	0.121 mile	(UST) (1) 550 gal unknown contents (RFG) (2) 1,000 gal unknown contents (RFG) (1) 4,000 gal used oil (RFG) (1) 6,000 gal gasoline (RFG) (2) 20,000 gal diesel (RFG) (1) 15,000 gal diesel (RFG) (AST) (1) 1,000 gal lube oil (CIU) (1) 2,000 gal gasoline (CIU)
Crown Terminal Former 4400 E Main Street	LUST/LTANKS	0.130 mile	PC #20034469 has been closed
Crown Richmond Terminal 4405 E Main Street	LUST/LTANKS	0.132 mile	PC #19900531 and #19940866 have been closed
Former) Crown Central Petroleum Corp. 4405 East Main Street	UST AST	0.132 mile	(UST) (1) 275 gal other contents (RFG) (1) 3,000 gal hazardous (RFG) (AST) (1) 861,000 gal gasoline (DSMT) (1) 861,000 gal diesel (DSMT) (1) 877,800 gal diesel (DSMT) (1) 449,400 gal gasoline (DSMT) (1) 1,386,000 gal gasoline (DSMT) (2) 8,000 gal other contents (DSMT) (1) 800 gal gasoline (DSMT)
East Coast Former 2801 E Main Street	LUST/LTANKS	0.243 mile	PC #19974056 has been closed
East Coast (Former) 2801 E Main Street	UST	0.243 mile	(3) unknown size, gasoline USTs (RFG) (1) unknown size, kerosene UST (RFG)
Manchester Board & Paper 200 Orlean Street	LUST/LTANKS	0.256 mile	PC #19911188 has been closed
Lucky Strike Power Plant 2700 E Cary Street	LUST/LTANKS	0.296 mile	PC #20084187 has been closed
Kayo 2708 E Main Street	LUST/LTANKS UST	0.296 mile	(LUST/LTANKS) PC #19974157 has been closed (UST) (4) 10,000 gal gasoline USTs (RFG)
Allison and Addison Site 1300 Brander Street	VRP	0.322 mile	The site is on the other side of the James River – NO POTENTIAL RISK
American Tobacco Co 2620 E Cary Street	LUST/LTANKS	0.333 mile	PC #19890299 and #19974275 are closed
Richmond WWTW 1400 Brander Street	LUST/LTANKS	0.381 mile	PC #19931608, #19940381, and #19940642 have been closed
Rocketts-Henrico Phase 2A/Power Plant	VA Eng Controls/ VA Inst Controls/ VRP	0.443 mile	Engineering and Institutional controls were resolved through corrective action involving limited removal in conjunction with hardscaping; a certificate of satisfactory completion of remediation has been issued and recorded

(Continued)

Site Name/Address	Regulatory Database	Distance	Details
Reynolds Equipment Ctr 509 Goddin Street	LUST/LTANKS	0.467 mile	PC #19921501 has been closed
Vogeley Kevin Property 416 N 28 th Street	LUST/LTANKS	0.469 mile	PC #20124694 has been closed
McCarthy Jimmy 2720 E Marshall Street	LUST/LTANKS	0.483 mile	PC #19900702 has been closed
BMG Metals Incorporated 5100 Old Osborne Turnpike	LUST/LTANKS UST	0.497 mile	(LUST/LTANKS) PC #19921545 and #19932318 are closed (UST) (1) 2,500 gal diesel UST (RFG)

Notes: PC (Pollution Complaint) Number = the regulatory tracking reference utilized by the DEQ
RFG = removed from ground
CIU = currently in use
DSMT = Dismantled

The following represent the results of the state database review:

- The identified UST and AST sites of any potential consequence have had all tanks removed from the ground or dismantled, respectively. Also, the listed LUST/LTANKS investigations have been closed. Therefore, based on the removal of potential sources and as a result of regulatory status, the identified LUST/LTANKS, UST, and AST listings do not represent RECs.
- In addition to distance and location, the Rockets-Henrico Phase 2A/Power Plant site does not represent a REC based on regulatory status.

4.2.3 Orphan Summary

The EDR Radius Map™ Report with GeoCheck® identified twelve (12) orphan sites within the vicinity of the Subject Property. Orphan sites are facilities with inadequate address information to map correctly. Each of the listings included on the orphan summary was examined to identify their location relative to the Subject Property, and all were found to be located outside of their associated ASTM-specified search radii. Therefore, based on distance, the orphan sites do not represent RECs to the Subject Property.

4.3 Historical Use Information

4.3.1 Aerial Photographs

Historical aerial photographs from 1942, 1952, 1959, 1965, 1968, 1972, 1980, 1989, 1994, 2005, 2009, 2011, and 2012 were obtained from EDR (Appendix 5). Descriptions of the Subject Site and surrounding properties are presented at the top of the succeeding page.

Year	Subject Property	Adjoining Properties
1942	The Subject Property consists of a gas manufacturing plant which includes three (3) large gasometers, an AST and factory buildings	Williamsburg Avenue and industrial properties to the north; CSX railroad trestle, Williamsburg Avenue, and undeveloped areas to the east; CSX railroad, Gillies Creek, and two large ASTs to the south; and CSX railroad trestle, industrial properties, Main Street, and the James River to the west

(Continued)

Year	Subject Property	Adjoining Properties
1952	Same as 1942	Same as 1942
1959	The picture quality is improved and more details can be seen including several smaller ASTs, piping, and many small factory buildings	Same as 1952 with industrial development to the east
1965	Same as 1959	Same as 1959 with three (3) ASTs to the south
1968	Same as 1965	Same as 1965
1972	Same as 1968	Same as 1968
1980	A large volume of the Subject Property has been dismantled including the three (3) gasometers	Same as 1980 with Williamsburg Avenue realigned to the north; the razing of properties to the east; the channel for Gillies Creek has been concreted to the south and west
1989	Same as 1980	Same as 1980 with a CSX railroad trestle to the east dismantled and industrial development to the south
1994	Same as 1989	Same as 1989 with revegetation to the south and west
2005	Same as 1994	Same as 1994 with the ASTs removed from the southwestern and southern adjoining properties
2009	Same as 2005	Same as 2005
2011	Same as 2009	Same as 2009
2012	Same as 2011	Same as 2011

4.3.2 City Directories

A City Directory Search was completed by EDR for varying years 1920 through 2013 (Appendix 6). The Subject Property is identified as Fulton Gas Works in 1978 and 1983. The area surrounding the Subject Property is mostly represented as residential, industrial, and vacant properties.

4.3.3 Historical Topographic Maps

Historical topographic maps of the Richmond Quadrangle dated 1934, 1939, 1956, 1964, 1968, 1974, 1981, 1987, and 1994 were obtained through EDR (Appendix 7). Descriptions of the Subject Site and surrounding properties as depicted by the topographic maps are presented below.

Year	Subject Property	Adjacent Properties
1934	The Subject Property is within the City of Richmond urban limits	All of the surrounding properties are within the City of Richmond urban limits with Williamsburg Avenue to the north, a train trestle to the east, Gillies Creek and a train trestle to the south and west
1939	Same as 1934	Same as 1934
1956	Same as 1939 with the three (3) gasometers depicted onsite	Same as 1939 with two (2) ASTs to the west
1964	Same as 1956	Same as 1956
1968	Same as 1964 with four (4) ASTs now depicted onsite	Same as 1964 with four (4) ASTs to the south near Nicholson Street

(Continued)

Year	Subject Property	Adjacent Properties
1974	Same as 1968	Same as 1968 except for the realignment of Gillies Creek
1981	The gasometers and tanks are no longer depicted but two (2) buildings are shown onsite	Same as 1974 with Williamsburg Avenue realigned to the north and east
1987	Same as 1981	Same as 1981 with industrial improvement depicted in the vicinity
1994	Same as 1987 however the two buildings are now depicted as a single structure	Same as 1987 with additional industrial improvement

4.3.4 Sanborn® Fire Insurance Maps

Copies of Sanborn® Fire Insurance Maps for the years 1895, 1905, 1925, 1950, 1952, 1969, 1971, 1973, 1978, 1979, and 1984 were obtained from EDR (Appendix 8). Descriptions of the Subject Site and surrounding properties as depicted by the topographic maps are presented below.

Year	Subject Property	Adjacent Properties
1895	The Subject Property is mostly not depicted although a small building is depicted as the City Gas Works	Williamsburg Avenue and a roofing company to the north; a railroad trestle and Williamsburg Avenue to the east; and Gillies Creek to the west
1905	Richmond Gas Works is now depicted on Site including various buildings, two (2) gasometers, and several small ASTs; also, the northwestern area of the site is improved with nine (9) residential dwellings that front Maple and Poplar Streets; Armitage Manufacturing Company is located in the southern area of the Site	Same as 1895 with another railroad trestle extending to the west, a sheep dip and insecticide manufacturer to the east, and Gillies Creek to the south
1925	Same as 1905 with a crude oil AST and several tar tanks depicted; the residential dwellings and associated roadways have been razed and Armitage Manufacturing is no longer present; the property has been further improved with railroad spurs	Same as 1905 with the sheep dip manufacturer now a planing mill; Armitage Manufacturing is located to the west with Fibre Board Container Co to the north and residential dwellings to the northwest
1950	Same as 1925 with a building demolished in the north central area of the Site and condenser tanks positioned in the northern area of the Site	Same as 1925 with the planing mill razed and two (2) large ASTs to the west across Gillies Creek
1952	Same as 1950	Same as 1950
1969	Same as 1952 with additional condenser tanks shown onsite (although the plant at this time is now closed)	Same as 1952 with Williamsburg Avenue renamed Williamsburg Road
1971	Same as 1969	Same as 1969
1973	Same as 1971	Same as 1971
1978	Same as 1973 with fewer building depicted on the Site	Same as 1973
1979	Same as 1978	Same as 1978
1984	Same as 1979	Same as 1979

Based on a review of historic Sanborn® Fire Insurance Maps, the historical usage of the Subject Property is suspected to have incorporated and/or generated hazardous substances and/or involved the use of petroleum products during the course of improvement and operation which represents a HREC.

4.3.5 Previous Reports

Timmons Group acquired/reviewed two (2) previously prepared reports that encompassed the Subject Property and presented an evaluation of the geotechnical and subsurface environmental conditions at random locations across the defined study area. A total of six (6) borings were advanced into the subsurface for the purpose of collecting soil and groundwater samples of which two (2) were located within the site boundaries of this Phase I ESA. The resulting data indicated the presence of multiple contaminants that exceed regulatory reporting requirements; however, most were below DEQ – VRP Tier II Screening Levels.

However, as with any subsurface investigation to evaluate environmental contamination, the sampling locations and the associated analytical results should be considered as isolated data points that do not represent homogeneous conditions across the study area.

5.0 SITE RECONNAISSANCE

Timmons Group completed site reconnaissance on August 12, 2015, which included walking the site perimeter and transects across the Subject Property to visually observe existing conditions and identify RECs and/or areas of potential environmental concern. Photographs documenting the site reconnaissance are included as Appendix 9.

5.1 Hazardous Substances and/or Petroleum Products

Fulton Gas Works was a manufactured gas plant that burned coal and oil to derive volatiles (natural gas) for use as a residential and industrial fuel source. The plant produced coal gas from approximately 1856 through the 1950's. The passage below in conjunction with site observations presents evidence supporting the high probability of hazardous substance(s) and/or petroleum product(s) concentrations being present onsite.

As detailed by the U.S. EPA about manufactured gas plant sites:

Due to the immense amounts of coal which could be handled per year, manufactured gas plant sites often have very large wastewater lagoons and coal tar pits. Common waste products encountered at Superfund assessment and remediation projects include high concentrations of polynuclear aromatic hydrocarbons (PAHs), sulfur compounds, complex cyanide compounds and lower concentrations of volatile and phenolic compounds. These wastes are concentrated in a dense, aromatic coal tar and associated waste waters. This coal tar waste is typically found in large on-site pits, many of which are over 20 feet deep. The metals concentration accumulated in the ash collection system is dependent on the content of the original fuel. The most common metals include aluminum, iron, lead, nickel, and chromium. The ash may be encountered on site mixed with the coal tar or as a separate waste pile. Other inorganic compounds are not typically encountered at significant levels.

Groundwater may be contaminated as a result of leaching or percolation of surface and subsurface contaminants, surface impoundments and leaking process lines and tanks.

Additionally, contaminated buildings and the associated demolition debris may be encountered at abandoned or inactive sites. Associated heat transmission equipment may contain significant amounts of asbestos. Decontamination, asbestos remediation, and wipe testing of this material may be required prior to off-site landfill disposal or scrapping of process equipment.

Based on the above and considering the various evidence alluding to the presence of hazardous materials and/or petroleum concentrations onsite, the historical operations at Fulton Gas Works represent a REC to the Subject Property.

5.2 Storage Tanks

Based on the review of historical aerial photographs and Sanborn maps, Fulton maintained underground tar cisterns and large, vertical, cylindrical crude oil ASTs from as early as 1905 until its closing in the 1950s. The ASTs have since been removed but site observations indicate that the cisterns may still be present; a partially exposed UST was observed to the east of the main collection of buildings that was open to the elements and found to be full of a petroleum-based mixture. Based on the above, the collection of tanks and former bulk storage of petroleum products on the Subject Property represents a REC to the Subject Property.

5.3 Vapor Migration

The previous/historical storage of petroleum and coal tar on the Subject Property denotes a contemporary

source for subsurface vapors that, under the influence of topographic and/or hydraulic gradients, has the potential to migrate across the Subject Property and onto adjoining properties. Accordingly, the contemporary potential for vapor migration resulting from the historic presence of petroleum and coal tar represents a REC.

5.4 Poly-Chlorinated Biphenyls (PCBs)

A cluster of three (3) electrical transformers is mounted on a single utility pole in the central area of the Subject Property. The transformers are not labeled with non-PCB placards and are in fair to poor condition but have been disconnected from usage. Based on their suspected age, condition, and likely construction details, the transformers represent a potential REC to the Subject Property.

Based on the age and nature of the mechanical equipment utilized over the course of facility operation as a coal gas manufacturing plant, the usage of PCB fluids is suspected which represents a potential REC to the Subject Property.

5.5 Heating and Cooling

The Subject Property is suspected of previously utilizing heating systems on Site. However, based on the age and long term vacancy, the suspected systems do not represent a REC.

5.6 Stained Soil/Pavement and/or Stressed Vegetation

Stained soil and stressed vegetation are present in the southeastern area of the Subject Property which is downgradient from the main buildings of Fulton Gas Works. The staining and stressed vegetation in combination with the detection of odors, as described below, represents a REC.

5.7 Pits, Ponds and/or Lagoons/ Pools of Liquids

One (1) large standing pool of water was observed along the western boundary in the southern portion of the Subject Property which is attributed to precipitation and does not represent a REC.

5.8 Odors

The area of stained soils and stressed vegetation located in the southeastern area of the property was noted to be generating a strong petroleum-like odor. The odor, in combination with the previously described staining and stressed vegetation, represents a REC.

5.9 Drains and/or Sumps

Evidence of the current and/or past presence of drains and/or sumps was not observed on the Subject Property.

5.10 Railroad Tracks

Railroad tracks do not presently transect the Subject Property. However, based on review of historical aerial photographs and Sanborn maps, a feeder line to a series of railroad spurs historically entered the Subject Property from the main line along the northern boundary and circled around to the southern area of the Site. Railroad tracks are historically suspect sources of environmental impact based on the previous burning of coal as a fuel source and the associated particulate fallout which commonly contains elevated concentrations of heavy metals. Accordingly, the potential exists for heavy metal concentrations to be prevalent in the surficial soils onsite. As a result, the former presence of railroad tracks across the Subject Property represents a REC.

5.11 Wells

No water supply and/or groundwater monitoring wells were identified during the site reconnaissance.

5.12 Discarded Solid Waste Material

An extensive volume of miscellaneous solid waste material is scattered across the Subject Property affiliated with the vacant Fulton Gas Works. Per ASTM E 1527-13, the solid waste materials described above qualify as a *de minimis* condition which does not present a potential environmental risk to the Site and surrounding area and is not recognized as a REC.

5.13 Adjoining Properties

As a result of site reconnaissance in conjunction with information gathered from the EDR Radius Map™ Report with GeoCheck®, the following observations were made for the adjoining properties:

- Hazardous Substances and/or Petroleum Products

No overt evidence of hazardous substances and/or petroleum products was observed on the adjoining properties during the site inspection; however, as indicated by reviewed resource data, the northern and eastern adjoining properties were previously improved for industrial uses from the late 19th Century through the 1970's which included the above ground bulk storage of petroleum in excess of 2-million gallons. Overall, the historical industrial nature of the northern and eastern adjoining properties represents a potential HREC which translates to a contemporary REC.

Currently, Newton's Bus Service which is located north-adjacent and at a higher elevation maintains two (2) ASTs with individual volumes estimated in excess of 5,000 gallons that are suspected to be used for petroleum storage. A catastrophic release from either of these tanks would have the potential to impact the northern extent of the Subject Property; accordingly, these tanks represent a potential REC.

- Storage Tanks

As previously stated, the two (2) bulk petroleum ASTs located on the northern adjoining Newton's Bus Service facility represent a potential REC.

- Vapor Migration

Although minimal evidence was observed as a result of the site reconnaissance, the recorded historic presence of hazardous materials and/or petroleum products on the northern and eastern adjoining properties denote a contemporary source for subsurface vapors that, under the influence of topographic and/or hydraulic gradients, have the potential to migrate onto and across the Subject Property. Accordingly, the contemporary potential for vapor migration resulting from the historic presence of hazardous materials on the adjoining properties represents a REC.

- Poly-Chlorinated Biphenyls (PCBs)

Several pole-mounted transformers were observed on the adjoining properties of which some were not labeled with non-PCB placards. However, based on distance from the Site boundaries, the observed transformers do not represent RECs.

- Heating and Cooling

Based on observations, the buildings located in the vicinity of the Subject Property are heated by either natural gas or electrically powered forced air systems and cooling is accomplished by electrically powered forced air systems; neither represents a REC to the Subject Property.

- Stained Soil/Pavement and/or Stressed Vegetation
Moderate petroleum staining was observed across parking lots serving the adjoining properties; however, such staining is typical of parking lots and does not represent a REC to the Subject Site or surrounding area.
- Pits, Ponds and/or Lagoons/ Pools of Liquid
No evidence of pits, ponds and/or lagoons/pools of liquid was observed on the adjoining properties.
- Odors
No odors were emanating from the adjoining properties.
- Drains and/or Sumps
Although not observed during the site reconnaissance, some of the surrounding buildings are expected to maintain drains and/or sumps that drain to the City of Richmond combined sanitary sewer system. Such features do not represent a REC to the Subject Property.
- Railroad Tracks
An active railroad trestle comprised of two (2) sets of tracks currently extends northwest-southeast along the western boundary of the Subject Property. Likewise, a single-track line extends along the northern boundary of the Subject Property that crosses Williamsburg Avenue and a former elevated railroad spur extended along the eastern property boundary. Railroad tracks are historically suspect sources of environmental impact based on the previous burning of coal as a fuel source and the associated particulate fallout which commonly contains elevated concentrations of heavy metals. Accordingly, the potential exists for heavy metal concentrations to be prevalent in the surficial soils onsite. As a result, the potential generation of fugitive dust during the redevelopment of the Subject Property represents a REC.
- Wells
No water supply and/or groundwater monitoring wells were observed on the adjoining properties.
- Dumped/Solid Waste Materials
Minimal to moderate volumes of discarded general debris (e.g., bottles, cans, Styrofoam, and paper goods) including railroad materials were observed along the adjoining streets and properties. Such material is considered a *de minimis* condition and does not represent a REC.

6.0 INTERVIEWS

Since the City of Richmond DPU is both the User and the current property owner, the ASTM Standard E 1527-13 User Questionnaire was completed by Mr. Daniel Rifenburg and covers the Current Property Owner Questionnaire (Appendix 3). Overall, Mr. Rifenburg indicated that based on the history of the site DPU believed that the presence of contamination on the Site is likely.

Based on the details and depth of the resource data provided by EDR, as detailed in Section 4.0, additional interviews with state and local officials were not pursued.

7.0 EVALUATION

7.1 Findings

Timmons Group has prepared a Phase I ESA of one (1) property totaling approximately 7.9 acres located at 3301 Williamsburg Avenue in the City of Richmond, Virginia. The Site is currently improved as a former coal gasification plant. Based on our understanding, the Site is being evaluated for renovation and reuse by the City of Richmond. Any exceptions to, or deletions from, this practice are described in Sections 2.7 and 2.8 of this report.

Environmental Conditions on the Subject Property

The results of the Phase I ESA identified a combination of HRECs and RECs for the Subject Property as defined by ASTM Standard E 1527-13. Under the conditions of proposed property redevelopment and associated land disturbance, the identified HRECs also represent RECs.

- Hazardous Substances and/or Petroleum Products

Fulton Gas Works was a manufactured gas plant that burned coal and oil to derive volatiles (natural gas) for use as a residential and industrial fuel source. The plant produced coal gas from approximately 1856 through the 1950's. The passage below in conjunction with site observations presents evidence supporting the high probability of hazardous substance(s) and/or petroleum product(s) concentrations being present onsite.

As detailed by the EPA regarding manufactured gas plant sites:

Due to the immense amounts of coal which could be handled per year, manufactured gas plant sites often have very large wastewater lagoons and coal tar pits. Common waste products encountered at Superfund assessment and remediation projects include high concentrations of polynuclear aromatic hydrocarbons (PAHs), sulfur compounds, complex cyanide compounds and lower concentrations of volatile and phenolic compounds. These wastes are concentrated in a dense, aromatic coal tar and associated waste waters. This coal tar waste is typically found in large on-site pits, many of which are over 20 feet deep. The metals concentration accumulated in the ash collection system is dependent on the content of the original fuel. The most common metals include aluminum, iron, lead, nickel, and chromium. The ash may be encountered on site mixed with the coal tar or as a separate waste pile. Other inorganic compounds are not typically encountered at significant levels.

Groundwater may be contaminated as a result of leaching or percolation of surface and subsurface contaminants, surface impoundments and leaking process lines and tanks.

Additionally, contaminated buildings and the associated demolition debris may be encountered at abandoned or inactive sites. Associated heat transmission equipment may contain significant amounts of asbestos. Decontamination, asbestos remediation, and wipe testing of this material may be required prior to off-site landfill disposal or scrapping of process equipment.

Based on the above and considering the various evidence alluding to the presence of hazardous materials and/or petroleum concentrations onsite, the historical operations at Fulton Gas Works represent a REC to the Subject Property.

- Storage Tanks

Based on the review of historical aerial photographs and Sanborn maps, Fulton maintained underground tar cisterns and large, vertical, cylindrical crude oil ASTs from as early as 1905 until its closing in the 1950s. The ASTs have since been removed but site observations indicate that the cisterns may still be present; a partially exposed UST was observed to the east of the main collection

of buildings that was open to the elements and found to be full of a petroleum-based mixture. Based on the above, the collection of tanks and former bulk storage of petroleum products on the Subject Property represents a REC to the Subject Property.

- Vapor Migration

The previous/historical storage of petroleum and coal tar on the Subject Property denotes a contemporary source for subsurface vapors that, under the influence of topographic and/or hydraulic gradients, has the potential to migrate across the Subject Property and onto adjoining properties. Accordingly, the contemporary potential for vapor migration resulting from the historic presence of petroleum and coal tar represents a REC.

- Polychlorinated Biphenyls (PCBs)

A cluster of three (3) electrical transformers is mounted on a single utility pole in the central area of the Subject Property. The transformers are not labeled with non-PCB placards and are in fair to poor condition but have been disconnected from usage. Based on their suspected age, condition, and likely construction details, the transformers represent a potential REC to the Subject Property.

Based on the age and nature of the mechanical equipment utilized over the course of facility operation as a coal gas manufacturing plant, the usage of PCB fluids is suspected which represents a potential REC to the Subject Property.

- Stained Soil/Pavement and/or Stressed Vegetation

Stained soil and stressed vegetation are present in the southeastern area of the Subject Property which is downgradient from the main buildings of Fulton Gas Works. The staining and stressed vegetation in combination with the detection of odors, as described below, represents a REC.

- Odors

The area of stained soils and stressed vegetation located in the southeastern area of the property was noted to be generating a strong petroleum-like odor. The odor, in combination with the previously described staining and stressed vegetation, represents a REC.

- Railroads

Railroad tracks do not presently transect the Subject Property. However, based on review of historical aerial photographs and Sanborn maps, a feeder line to a series of railroad spurs historically entered the Subject Property from the main line along the northern boundary and circled around to the southern area of the Site. Railroad tracks are historically suspect sources of environmental impact based on the previous burning of coal as a fuel source and the associated particulate fallout which commonly contains elevated concentrations of heavy metals. Accordingly, the potential exists for heavy metal concentrations to be prevalent in the surficial soils onsite. As a result, the former presence of railroad tracks across the Subject Property represents a REC.

Environmental Conditions on Adjoining Properties

Presently, the overall Subject Property is bordered to the north by Newton's Bus Service, CSX Railroad and Williamsburg Avenue; to the east by Williamsburg Avenue, a former railroad corridor/undeveloped green space, and property under construction as the future parking lot for Stone Brewery; to the south by Gillies Creek, CSX railroad, undeveloped woodlands and Stone Brewery (under construction); and to the west by Gillies Creek, CSX railroad, a parking lot, and undeveloped woodlands with East Main Street beyond. As a result of site reconnaissance and reviewed resource data, the following HRECs and RECs were identified for the adjoining properties. Under the conditions of proposed property renovation and associated land disturbance, the identified HRECs also represent RECs.

- Hazardous Substances and/or Petroleum Products

No overt evidence of hazardous substances and/or petroleum products was observed on the adjoining properties during the site inspection; however, as indicated by reviewed resource data, the

northern and eastern adjoining properties were previously improved for industrial uses from the late 19th Century through the 1970's which included the above ground bulk storage of petroleum in excess of 2-million gallons. Overall, the historical industrial nature of the northern and eastern adjoining properties represents a potential HREC which translates to a contemporary REC.

Currently, Newton's Bus Service which is located north-adjacent and at a higher elevation maintains two (2) ASTs with individual volumes estimated in excess of 5,000 gallons that are suspected to be used for petroleum storage. A catastrophic release from either of these tanks would have the potential to impact the northern extent of the Subject Property; accordingly, these tanks represent a potential REC.

- Storage Tanks
As previously stated, the two (2) bulk petroleum ASTs located on the northern adjoining Newton's Bus Service facility represent a potential REC.
- Vapor Migration
Although minimal evidence was observed as a result of the site reconnaissance, the recorded historic presence of hazardous materials and/or petroleum products on the northern and eastern adjoining properties denote a contemporary source for subsurface vapors that, under the influence of topographic and/or hydraulic gradients, have the potential to migrate onto and across the Subject Property. Accordingly, the contemporary potential for vapor migration resulting from the historic presence of hazardous materials on the adjoining properties represents a REC.
- Railroads
An active railroad trestle comprised of two (2) sets of tracks currently extends northwest-southeast along the western boundary of the Subject Property. Likewise, a single-track line extends along the northern boundary of the Subject Property that crosses Williamsburg Avenue and a former elevated railroad spur extended along the eastern property boundary. Railroad tracks are historically suspect sources of environmental impact based on the previous burning of coal as a fuel source and the associated particulate fallout which commonly contains elevated concentrations of heavy metals. Accordingly, the potential exists for heavy metal concentrations to be prevalent in the surficial soils onsite. As a result, the potential generation of fugitive dust during the redevelopment of the Subject Property represents a REC.

7.2 Data Gaps

No data gaps were encountered during the completion of this report.

7.3 Opinions for Additional Investigation

Following a review of reasonably accessible state and federal environmental regulatory records and standard historical resources, in conjunction with interviews and a site reconnaissance completed by Timmons Group, RECs and RECs originating from HRECs were identified for the Subject Site and adjoining properties that warrant further assessment in association with any proposed property redevelopment efforts.

7.4 Conclusions and Recommendations

Timmons Group completed a Phase I ESA of one (1) parcel totaling 7.9 acres located at 3301 Williamsburg Avenue in the City of Richmond, Virginia; as a result, RECs and RECs originating from HRECs were identified for the Subject Property and adjoining properties as defined by ASTM Standard E 1527-13. Timmons Group therefore recommends the completion of a Phase II ESA to more comprehensively evaluate potential risks that could originate from the identified RECs and materialize during property redevelopment. In addition to subsurface soil/groundwater sampling and surficial soil sampling, Timmons Group recommends the inclusion of a soil gas survey through the existing building

foundation slabs to be scheduled for renovation. As a matter of reference, Timmons Group recommends reviewing the non-scope considerations in the following section.

8.0 NON-SCOPE CONSIDERATIONS

As a measure of business environmental risk, Timmons Group completed an additional evaluation of onsite factors that could potentially present a material environmental or environmentally-driven impact to the Subject Property, not necessarily limited to the mandatory requirements of environmental assessment per ASTM Standard E 1527-13. The results are as follows:

- Cultural/Historic Resources

According to the DHR V-CRIS, the Subject Property is eligible for listing on the VLR and NRHP which is detailed below and further in Appendix 10.

DHR ID 127-6255 (Subject Property): Fulton Gas Works, or historically known as Richmond (Municipal) Gas Works, was constructed in the 1850s to accommodate the high demand gas. The original buildings were demolished and new ones were placed in their stead circa 1925. As of 1916, the Richmond Gas Works produced manufactured gas using two different methods; coal gas and water gas. This resource is identified as eligible for listing on the VLR and NRHP.

Because the goal of the project is to renovate the historic buildings and re-use the Site, the overall historical significance will be preserved and improved. Timmons Group nonetheless recommends communicating with DHR prior to and throughout the renovation process.

- Asbestos-Containing Materials

Based on site reconnaissance and the age of the onsite structures, construction may have incorporated the use of ACMs. An ACM assessment is therefore necessary prior to the renovation of the buildings on the Subject Property.

- Mold

Based on the age of the structures and their “openness” to outside air, mold growth is suspected within the buildings on the Subject Property. A mold inspection followed by proper abatement as necessary will be required prior to renovation and reuse.

- Lead-based Paint

Interior and exterior details of several buildings on the Subject Property are suspected to have been finished with LBP. Accordingly, a LBP survey should be completed prior to building renovation and/or select demolition.

9.0 REFERENCES

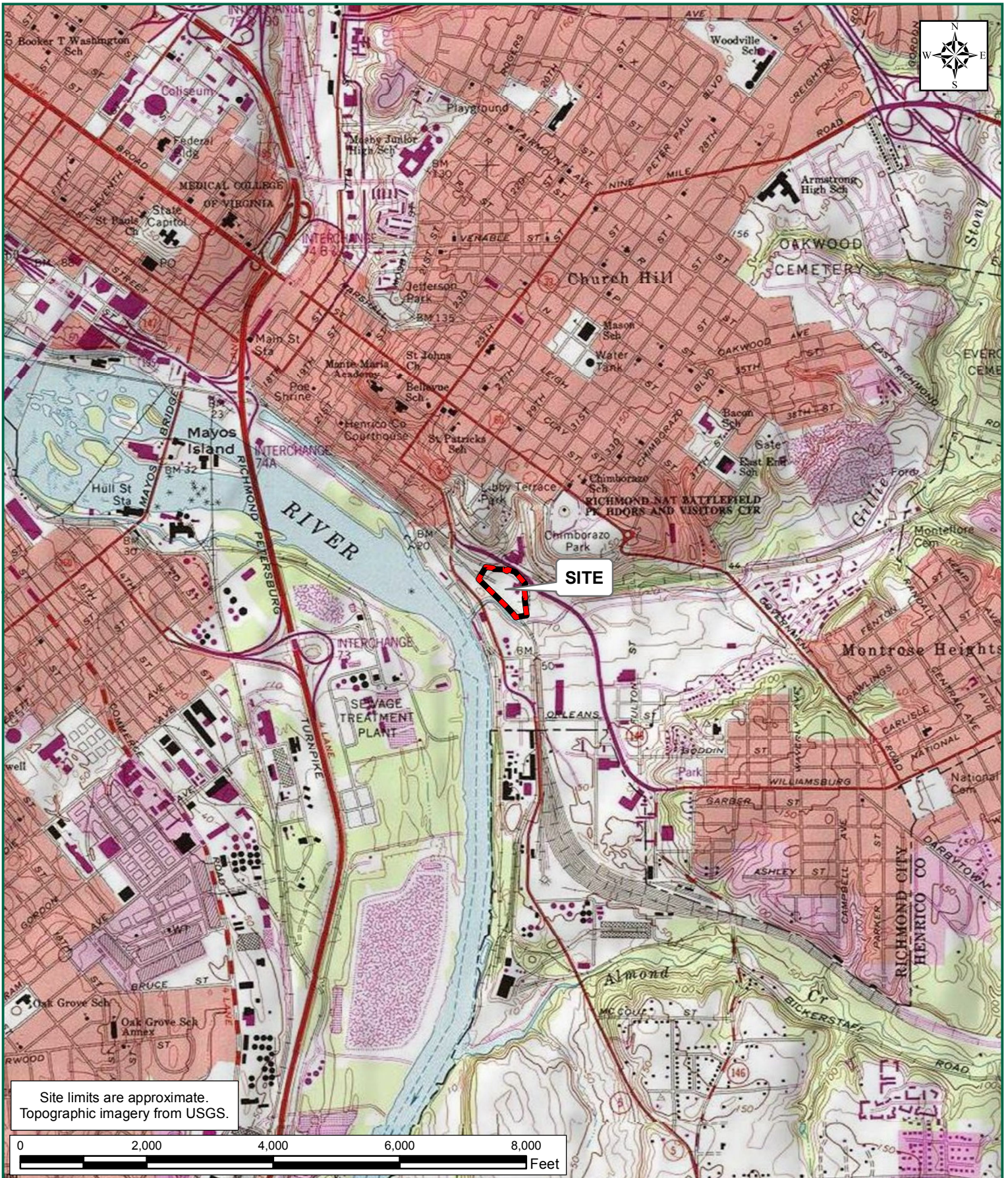
- ASTM Standard E 1527-13 Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.
- Commonwealth of Virginia, Department of Mines Minerals and Energy, 1993. Geologic Map of Virginia, 1:500,000 scale.
- Environmental Data Resources, Inc., July 9, 2014. The EDR Aerial Photo Decade Package, Inquiry Number: 3999963.9.
- Environmental Data Resources, Inc., July 31, 2015. The EDR City Directory Abstract, Inquiry Number: 4370257.5.
- Environmental Data Resources, Inc., July 9, 2014. EDR Historical Topographic Map Report. Inquiry Number: 3999963.4.
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- Environmental Data Resources, Inc., July 31, 2015. Certified Sanborn® Map Report. Inquiry Number: 4370257.3.
- History Replays Today, 2012. Fulton Gas Works <http://www.historyreplaystoday.com/2012/03/fulton-gas-works.html>.
- Meisler, H., Miller, J.A., Knobel, L.L., and Waite, R.L., 1988. Region 22, Atlantic and Eastern Gulf Coastal Plain, *in* Back, W., Rosenshein, J.S., and Seaber, P.R., eds., Hydrogeology: Boulder, Colorado, Geological Society of America, The Geology of North America, v. O-2.
- National Flood Insurance Program, 2015. Flood Insurance Rate Map, City of Richmond, Virginia Independent City, Panel 43 of 100, Map Number 5101290043D, effective date July 16, 2014.
- U.S. Fish and Wildlife Service, 2015. National Wetlands Inventory Map: City of Richmond, Virginia. U.S. Department of the Interior, Washington, D.C.
- USDA Natural Resource Conservation Service, 2015. Web Soil Survey 3.0, National Cooperative Soil Survey, City of Richmond, Virginia.
- USGS 1994, 7.5 Minute Series Richmond, Virginia Topographic Quadrangle Map, 1:24000 scale.

APPENDICES

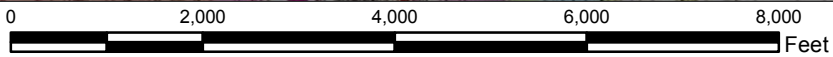
- Appendix 1 Site Maps**
- Appendix 2 Property Information**
- Appendix 3 Interviews**
- Appendix 4 The EDR Radius Map™ Report with GeoCheck®**
- Appendix 5 The EDR Aerial Photo Decade Package**
- Appendix 6 The EDR City Directory Abstract**
- Appendix 7 EDR Historical Topographic Map Report**
- Appendix 8 Certified Sanborn® Map Report**
- Appendix 9 Site Reconnaissance Photographs**
- Appendix 10 DHR V-CRIS Search Results**

APPENDIX 1

Site Maps



Site limits are approximate.
Topographic imagery from USGS.



FULTON GAS WORKS
CITY OF RICHMOND, VIRGINIA
FIGURE 1: VICINITY MAP

TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.

TIMMONS GROUP JOB NUMBER: 36156.006
PROJECT STUDY LIMITS: 324 ACRES
LATITUDE: 37° 31' 24.9" N
LONGITUDE: 77° 24' 55.8" W

U.S.G.S. QUADRANGLE(S): RICHMOND
DATE(S): 2013
WATERSHED(S): LOWER JAMES
HYDROLOGIC UNIT CODE(S): 02080206



THIS DRAWING PREPARED AT THE
CORPORATE OFFICE
1001 Boulders Parkway, Suite 300 | Richmond, VA 23225
TEL 804.200.6500 FAX 804.560.7648 www.timmons.com

DATE	REVISION DESCRIPTION

YOUR VISION ACHIEVED THROUGH OURS

DATE	REVISION DESCRIPTION
08/12/15	

DRAWN BY S.VARGO
 DESIGNED BY S.VARGO
 CHECKED BY J.RUSSELL
 SCALE 1" = 100'
 Site Development | Residential | Infrastructure | Technology | Environmental

TIMMONS GROUP

FULTON GAS WORKS
CITY OF RICHMOND, VIRGINIA

SITE MAP

Legend

	Fulton_Limits
	C_GISM_ROAD_CNTR_E

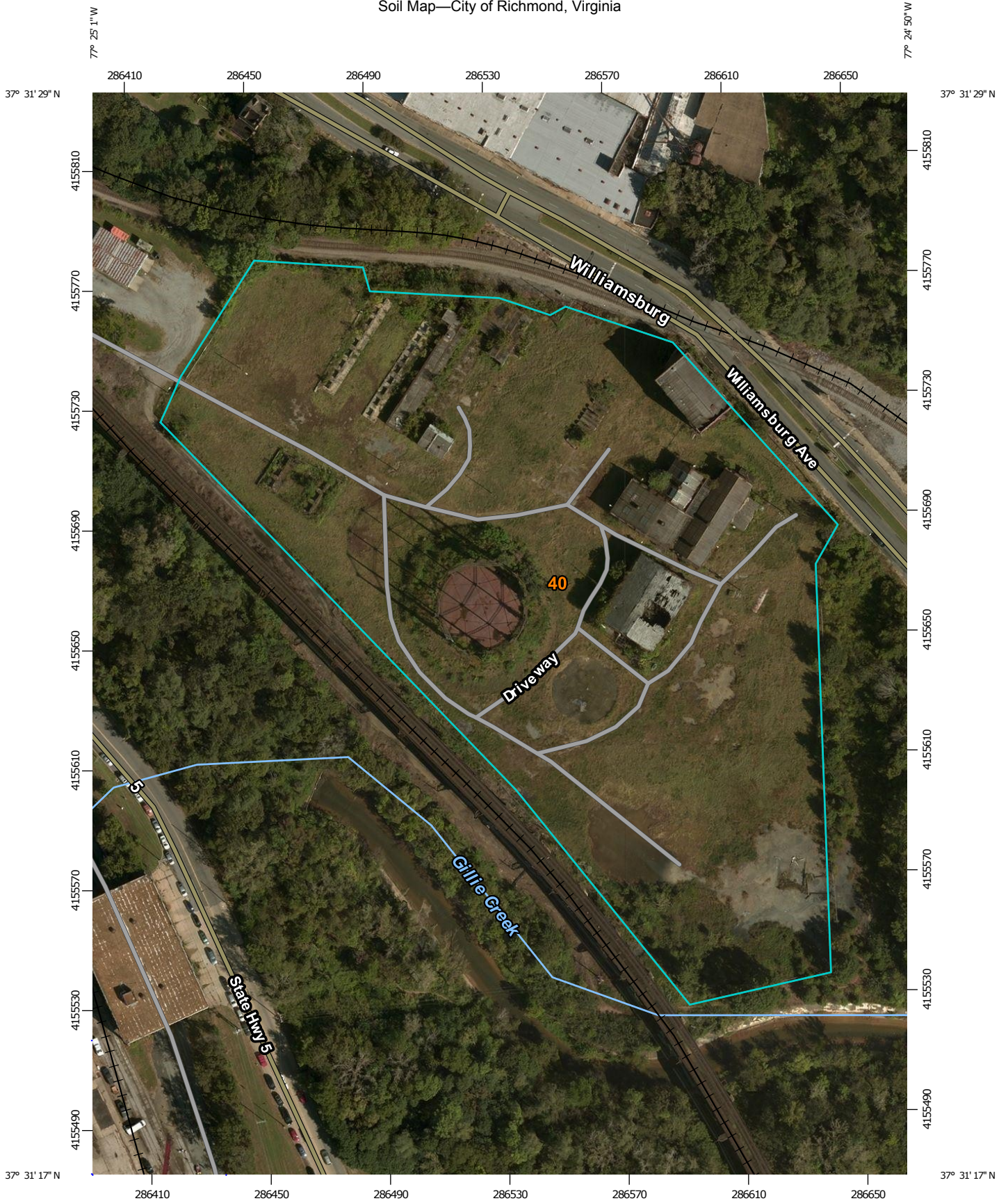
Project Limits from Richmond VA GIS.
Aerial imagery from ESRI online.

JOB NUMBER
99999

SHEET NO.
1 OF 1

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Soil Map—City of Richmond, Virginia



Map Scale: 1:1,760 if printed on A portrait (8.5" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: City of Richmond, Virginia
 Survey Area Data: Version 12, Dec 11, 2013

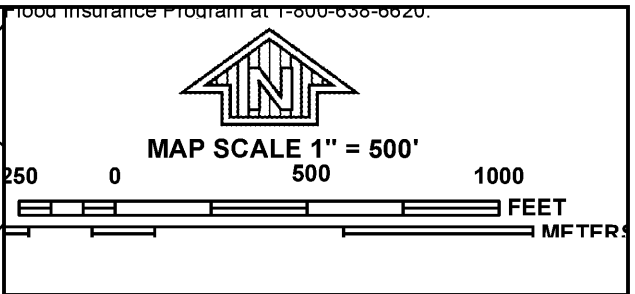
Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Aug 31, 2013—Oct 1, 2013

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

City of Richmond, Virginia (VA760)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
40	Udorthents-Dumps complex, pits	7.9	100.0%
Totals for Area of Interest		7.9	100.0%



NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0043E

FIRM
FLOOD INSURANCE RATE MAP
CITY OF RICHMOND,
VIRGINIA
INDEPENDENT CITY

PANEL 43 OF 100
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
RICHMOND, CITY OF	510129	0043	E

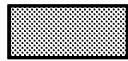
Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.



MAP NUMBER
5101290043E
MAP REVISED
JULY 16, 2014

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov



SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

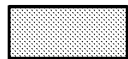
The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

- ZONE A** No Base Flood Elevations determined.
- ZONE AE** Base Flood Elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- ZONE AR** Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.



FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.



OTHER FLOOD AREAS

ZONE X Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.



OTHER AREAS

ZONE X Areas determined to be outside the 0.2% annual chance floodplain.

ZONE D Areas in which flood hazards are undetermined, but possible.



COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS



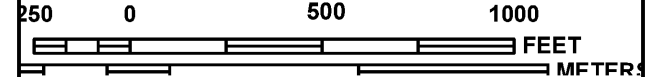
OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas

Flood Insurance Program at 1-800-638-6620.



MAP SCALE 1" = 500'



PANEL 0043E

FIRM
FLOOD INSURANCE RATE MAP
CITY OF RICHMOND,
VIRGINIA
INDEPENDENT CITY

PANEL 43 OF 100
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
RICHMOND, CITY OF	510129	0043	E

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.



MAP NUMBER
5101290043E

MAP REVISED
JULY 16, 2014

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov



U.S. Fish and Wildlife Service

National Wetlands Inventory

Fulton Gas Works

Aug 5, 2015



Wetlands

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

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.

User Remarks:

APPENDIX 2

Property Information

Property: 3301 Williamsburg Ave Parcel ID: E0000738009

Parcel

Street Address: 3301 Williamsburg Ave Richmond, VA 23223-0
Owner: CITY OF RICHMOND PUBLIC UTILITIES
Mailing Address: 600 E BROAD STREET RM 831, RICHMOND, VA 2321900000
Subdivision Name : NONE
Parent Parcel ID:
Assessment Area: 420 - Shockoe
Property Class: 511 - B Light Industrial
Zoning District: M-2 - Heavy Industrial
Exemption Code: 100 - General Government(Inside of Corp. Limits)

Current Assessment

Land Value: \$1,377,000
Improvement Value: \$161,000
Total Value: \$1,538,000
Area Tax: \$0
Special Assessment District: None

Land Description

Parcel Square Feet: 344261
Acreage: 7.9
Property Description 1: FULTON GAS WORKS IRG 7.9 AC
State Plane Coords(?<#>): X= 11797435.179868 Y= 3715905.263123
Latitude: 37.52388917 , **Longitude:** -77.41486710

Description

Land Type: Primary Commercial/Indust Land
Topology:
Front Size: 167
Rear Size: 184
Parcel Square Feet: 344261
Acreage: 7.9
Property Description 1: FULTON GAS WORKS IRG 7.9 AC
Subdivision Name : NONE
State Plane Coords(?<#>): X= 11797435.179868 Y= 3715905.263123
Latitude: 37.52388917 , **Longitude:** -77.41486710

Other

Street improvement:
Sidewalk:

Assessments

Assessment Year	Land Value	Improvement Value	Total Value	Reason
2016	\$1,377,000	\$161,000	\$1,538,000	Reassessment
2015	\$1,377,000	\$161,000	\$1,538,000	Reassessment
2014	\$1,377,000	\$161,000	\$1,538,000	Reassessment
2013	\$1,377,000	\$161,000	\$1,538,000	Reassessment
2012	\$1,377,000	\$161,000	\$1,538,000	Reassessment
2011	\$1,738,000	\$161,000	\$1,899,000	CarryOver
2010	\$1,738,000	\$161,000	\$1,899,000	Reassessment
2009	\$1,738,000	\$161,000	\$1,899,000	Reassessment
2008	\$1,738,000	\$0	\$1,738,000	Reassessment
2007	\$243,000	\$156,600	\$399,600	Reassessment
2006	\$243,000	\$156,600	\$399,600	Reassessment
2005	\$231,400	\$149,100	\$380,500	Reassessment

Transfers

Transfer Date	Consideration Amount	Grantor Name	Deed Reference	Verified Market Sale Description
10/21/1977	\$0	Not Available	00728-1023	

Planning

Master Plan Future Land Use(?<#>): DT-UCA
Zoning District(?<#>): M-2 - Heavy Industrial
Planning District(?<#>): East
Traffic Zone(?<#>): 1110
City Neighborhood Code(?<#>): SHKB
City Neighborhood Name(?<#>): Shockoe Bottom
Civic Code(?<#>): 4016
Civic Association Name(?<#>): Shockoe Partnership Civic Association
Subdivision Name: NONE
City Old and Historic District(?<#>):
National historic District(?<#>):
Neighborhoods in Bloom(?<#>):
Redevelopment Conservation Area(?<#>): Fulton

Economic Development

Care Area(?<#>): -
Enterprise Zone(?<#>): III

Environment

100 YEAR Flood Plain Flag(?<#>): Data Not Available. Contact Zoning at 646-6340.
500 YEAR Flood Plain Flag(?<#>): Data Not Available. Contact Zoning at 646-6340.
Resource Protection Flag(?<#>): Data Not Available. Contact Zoning at 646-6340.
Wetland Flag(?<#>): Data Not Available. Contact Zoning at 646-6340.

Census

Census Year	Block	Block Group	Tract
2000	1004 (?<#>)	0211001 (?<#>)	021100 (?<#>)
1990	501 (?<#>)	0211005 (?<#>)	021100 (?<#>)

Schools

Elementary School(?<#>): Bellevue
Middle School(?<#>): Martin Luther King Jr
High School(?<#>): Armstrong

Public Safety

Police Precinct(?<#>): 1
Police Sector(?<#>): 112
Fire District(?<#>): 8
Dispatch Zone(?<#>): 114A

Public Works Schedules

Street Sweep(?<#>): TBD
Leaf Collection(?<#>): TBD
Refuse Collection(?<#>): Thursday
Bulk Collection(?<#>):

Government Districts

Council District(?<#>): 7
Voter Precinct(?<#>): 706
State House District(?<#>): 71
State Senate District(?<#>): 16
Congressional District(?<#>): 3

Extension 1 Details

Extension Name: C01 -

Year Built: 1900

Stories: 0

Units: 0

Number Of Rooms: 0

Number Of Bed Rooms: 0

Number Of Full Baths: 0

Number Of Half Baths: 0

Condition: normal for age

Foundation Type:

1st Predominant Exterior:

2nd Predominant Exterior: N/A

Roof Style:

Roof Material:

Interior Wall:

Floor Finish:

Heating Type:

Central Air: N

Basement Garage Car #: 0

Fireplace: N

**Building Description (Out Building and
Yard Items) :** Miscellaneous

Extension 1 Dimensions

Finished Living Area: 0 Sqft

Attic: 0 Sqft

Finished Attic: 0 Sqft

Basement: 0 Sqft

Finished Basement: 0 Sqft

Attached Garage: 0 Sqft

Detached Garage: 0 Sqft

Attached Carport: 0 Sqft

Enclosed Porch: 0 Sqft

Open Porch: 0 Sqft

Deck: 0 Sqft

<#>

Property Images

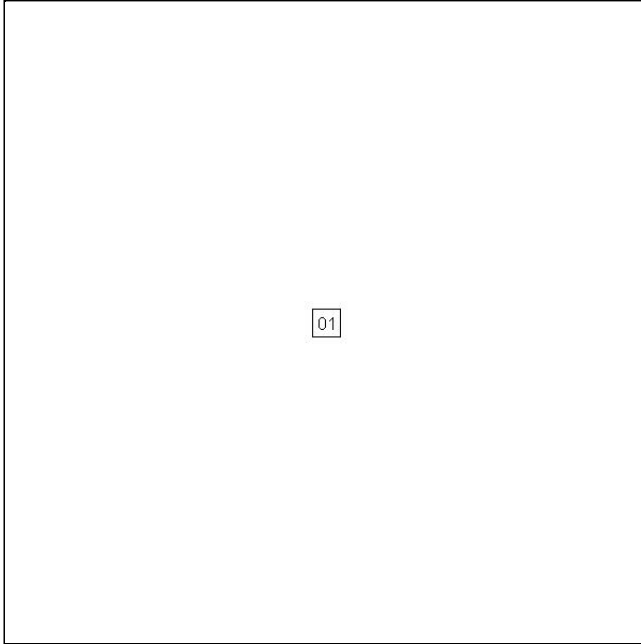
Name:E0000738009 Desc:C01



[Click here for Larger Image](#)

Sketch Images

Name:E0000738009 Desc:C01



APPENDIX 3

Interviews



ENVIRONMENTAL QUESTIONNAIRE
(To be completed by the User as defined by ASTM E 1527-13)

Property Address: 3301 Williamsburg Rd

City: Richmond County: _____ State: VA Zip: 23223

Legal Description: _____

Current Property Use: Abandoned Industrial

Occupied by Whom: City of Richmond Public Utilities Phone: 804-646-8537

- 1. As defined by ASTM E 1527-13, a lien is a charge, security or encumbrance upon title to a property to secure the payment of a cost, damage, debt obligation or duty arising out of response actions, cleanup, or other remediation of hazardous substances or petroleum products upon a property including, but not limited to, liens imposed pursuant to CERCLA 42 USC §§ 9607(l) and 9607(r) and similar state or local laws. In accordance with ASTM E 1527-13 and 40 CFR 312, Timmons Group, through inquiry of the User, completed a lien search for the subject property.

Environmental Lien Information was provided: by the User through Timmons Group

- 2. Activity and Use Limitations (AULs) are legal or physical restrictions or limitations on the use of, or access to a site or facility: (1) to reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil or groundwater on the property, or (2) to prevent activities that could interfere with the effectiveness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment.

As the User, are you aware of any activity use limitations for the subject property? Yes No

If "yes", please explain in the spaces provided below:

- 3. The User must take into account their specialized knowledge of the subject property, the area surrounding the subject property, the conditions of adjoining properties, and any other experience relevant to the inquiry, for the purpose of identifying conditions indicative of releases or threatened releases of hazardous material at the subject property.

As the User of this ESA, do you have any specialized knowledge or experience related to the property or nearby properties? Yes No

(continued)



If “yes”, please describe any specialized knowledge of the subject site in the spaces provided:

This site was the City Of Richmond's manufactured gas site.

4. The User must consider whether the purchase price of the subject property reasonably reflects the fair market value of the property. If the purchase price of the subject property does not reasonably reflect the fair market value of that property, the User should consider whether or not the differential in purchase price and fair market value is due to the presence of releases or threatened releases of hazardous substances.

Does the purchase price of the subject property reflect the fair market value? Yes No

If “no”, does the price of the subject property reflect the occurrence of a release of hazardous material? If not please explain in the spaces below:

Unknown

5. It is the responsibility of the User to convey any commonly known or reasonably ascertainable information regarding the subject property in identifying potential conditions indicative of releases or threatened releases.

As the User, are you aware of commonly known or reasonably ascertainable information about the property that would help an environmental professional to identify conditions indicative of releases or threatened releases? For example, as the User:

- a. Do you know the past use of the property?

Manufactured gas site.

- b. Do you know of specific chemicals that are present or once were present at the property?

No.

- c. Do you know of spills or other chemical releases that have taken place at the property?

No.

- d. Do you know of any environmental cleanups that have taken place at the property?

No.

(continued)

6. It is the responsibility of the User to convey any degree of obvious information that represents the detection of a release or threatened release of a hazardous substance at, in, on or to the subject property.

As the User of this ESA, based on your knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of contamination at the property?
x Yes No

If “yes”, please explain in the spaces below:

The site was used as a manufactured gas location for several decades. This would likely indicate the presence of contamination at the property.

In addition, certain information should be collected, if available, and provided to the environmental professional selected to conduct the Phase I. This information is intended to assist the environmental professional but is not necessarily required to qualify for one of the *LLPs*. The information includes:

- the reason why the Phase I is required,
- the type of property and type of property transaction, for example, sale, purchase, exchange, and so forth,
- the complete and correct address for the property (a map or other documentation showing property location and boundaries is helpful),
- the scope of services desired for the Phase I (including whether any parties to the property transaction may have a required standard scope of services on whether any considerations beyond the requirements of Practice E 1527 are to be considered),
- identification of all parties who will rely on the Phase I report,
- identification of the site contact and how the contact can be reached,
- any special terms and conditions which must be agreed upon by the environmental professional,
- any other knowledge or experience with the property that may be pertinent to the environmental professional (for example, copies of any available prior environmental site assessment reports, documents, correspondence, and so forth, concerning the property and its environmental condition).

Please provide any comments to the above in the space below:

I certify that to the best of my knowledge the above statements and facts are true and correct. To the best of my knowledge no material facts have been suppressed or misstated.

User: Daniel Rifenburg Date: 8/20/15

APPENDIX 4

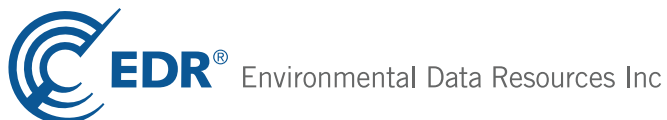
The EDR Radius Map™ Report with GeoCheck®

Fulton Gas Works

3301 Williamsburg Avenue
Richmond, VA 23223

Inquiry Number: 4370257.2s
July 31, 2015

The EDR Radius Map™ Report with GeoCheck®



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

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

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EXECUTIVE SUMMARY

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

TARGET PROPERTY INFORMATION

ADDRESS

3301 WILLIAMSBURG AVENUE
RICHMOND, VA 23223

COORDINATES

Latitude (North): 37.5236000 - 37° 31' 24.96"
Longitude (West): 77.4155000 - 77° 24' 55.80"
Universal Transverse Mercator: Zone 18
UTM X (Meters): 286539.2
UTM Y (Meters): 4155496.8
Elevation: 14 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 5951487 RICHMOND, VA
Version Date: 2013

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20120511
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:
3301 WILLIAMSBURG AVENUE
RICHMOND, VA 23223

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	DANCO	3301 WILLIAMSBURG RD	FINDS		TP
A2	DANCO	3301 WILLIAMSBURG RD	VA LUST, VA LTANKS, VA UST, VA Financial Assurance		TP
A3	DANCO MART - WILLIAM	3301 WILLIAMSBURG RD	VA RGA LUST		TP
A4		3301 WILLIAMSBURG A	EDR US Hist Auto Stat		TP
A5		3301 WILLIAMSBURG R	EDR US Hist Auto Stat		TP
A6	MUNICIPAL GAS WORKS	WILLIAMSBURG AND E M	EDR MGP	Lower	1 ft.
7		3302 WILLIAMSBURG A	EDR US Hist Auto Stat	Higher	90, 0.017, NNE
B8		3205 WILLIAMSBURG A	EDR US Hist Auto Stat	Higher	157, 0.030, NNW
B9		3109 WILLIAMSBURG A	EDR US Hist Auto Stat	Higher	288, 0.055, NW
B10		3118 WILLIAMSBURG A	EDR US Hist Auto Stat	Higher	328, 0.062, NW
11	LEHIGH CEMENT	3011 WATER STREET	US BROWNFIELDS, FINDS	Higher	404, 0.077, West
12		3050 WILLIAMSBURG A	EDR US Hist Auto Stat	Higher	412, 0.078, NW
C13	LEHIGH PORTLAND CEME	3111 WATER ST	FINDS, VA LUST, VA LTANKS, VA UST, VA TIER 2, US...	Higher	451, 0.085, SW
C14	RICHMOND CAPITAL TRA	3111 WATER ST	VA LUST, VA LTANKS	Higher	451, 0.085, SW
C15	CEMENT WHOL LEHIGH P	3111 WATER ST	EDR US Hist Cleaners	Higher	451, 0.085, SW
16	INTERMEDIATE TERMINA	3101 WHARF ST	VA LUST, VA LTANKS	Higher	586, 0.111, SSW
D17	108 NICHOLSON STREET	108 NICHOLSON ST	VA LTANKS	Higher	620, 0.117, SSE
18	TARMAC READY MIXED C	3011 DOCK ST	VA LUST, VA LTANKS, VA UST	Higher	627, 0.119, WNW
D19	116 NICHOLSON STREET	116 NICHOLSON ST	VA LTANKS, VA AIRS	Higher	636, 0.120, SSE
D20	LONE STAR RICHMOND T	111 N NICHOLSON ST	VA LUST, VA LTANKS	Higher	638, 0.121, SSE
D21	TARMAC LONE STAR RIC	111 N NICHOLSON ST	VA UST, VA AST	Higher	638, 0.121, SSE
D22	TITAN VA READY-MIX,	111 NICHOLSON ST	RCRA NonGen / NLR, FINDS	Higher	639, 0.121, SSE
E23	OPMS MGR	4401 E MAIN ST	EDR US Hist Auto Stat	Higher	681, 0.129, South
E24	OSCAR S CROWN SERVIC	4400 E MAIN ST	EDR US Hist Auto Stat	Higher	686, 0.130, South
E25	CROWN TERMINAL FORME	4400 E MAIN ST	VA LUST, VA LTANKS, VA SPILLS	Higher	686, 0.130, South
E26		4405 E MAIN ST	CERC-NFRAP, RCRA NonGen / NLR, FINDS, VA UST, VA...	Higher	696, 0.132, South
E27	CROWN RICHMOND TERMI	4405 E MAIN ST	VA LUST, VA LTANKS	Higher	696, 0.132, South
28		2909 WILLIAMSBURG A	EDR US Hist Cleaners	Higher	737, 0.140, NW
F29	EAST COAST (FORMER)	2801 E MAIN ST	VA UST	Higher	1283, 0.243, NW
F30	EAST COAST FORMER	2801 E MAIN ST	VA LUST, VA LTANKS	Higher	1283, 0.243, NW
F31		2801 E MAIN ST	EDR US Hist Auto Stat	Higher	1283, 0.243, NW
32	MANCHESTER BOARD AND	200 ORLEAN ST	VA LUST, VA LTANKS	Higher	1350, 0.256, SSE
G33	LUCKY STRIKE POWER P	2700 E CARY ST	VA LUST, VA LTANKS	Higher	1561, 0.296, NW
34	KAYO	2708 E MAIN ST	VA LUST, VA LTANKS, VA UST	Higher	1564, 0.296, NW
35	ALLISON AND ADDISON	1300 BRANDER STREET	VA VCP	Higher	1701, 0.322, WSW
G36	AMERICAN TOBACCO CO	2620 E CARY ST	VA LUST, VA LTANKS	Higher	1756, 0.333, NW
37	RICHMOND WWTW	1400 BRANDER STREET	VA LUST, VA LTANKS, VA SPILLS, VA NPDES	Higher	2012, 0.381, West
38	ROCKETTS-HENRICO PHA	251 ROCKETTS WAYS	VA ENG CONTROLS, VA INST CONTROL, VA VCP	Higher	2340, 0.443, South
39	REYNOLDS EQUIPMENT C	509 GODDIN ST	VA LUST, VA LTANKS	Higher	2466, 0.467, SSE

MAPPED SITES SUMMARY

Target Property Address:
 3301 WILLIAMSBURG AVENUE
 RICHMOND, VA 23223

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
H40	VOGELEY KEVIN PROPER	416 N 28TH ST	VA LUST, VA LTANKS	Higher	2477, 0.469, North
H41	MCCARTHY JIMMY	2720 E MARSHALL ST	VA LUST, VA LTANKS	Higher	2551, 0.483, North
42	BMG METALS INCORPORA	5100 OLD OSBORNE TPK	VA LUST, VA LTANKS, VA UST	Higher	2625, 0.497, South
43		5300 HATCHER ST	CERC-NFRAP, CORRACTS, RCRA NonGen / NLR, FINDS, NY.	Higher	4200, 0.795, SSE
44	FEC BIOREMEDIATION F	200 MAURY STREET	CORRACTS, 2020 COR ACTION	Higher	4741, 0.898, West
45	RICHMOND GAS CO	DOCK STREET	EDR MGP	Higher	5065, 0.959, NW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 7 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
DANCO 3301 WILLIAMSBURG RD RICHMOND, VA 23231	FINDS Registry ID:: 110040427936	N/A
DANCO 3301 WILLIAMSBURG RD RICHMOND, VA 23231	VA LUST Pollution Complaint #: 20084541 Pollution Complaint #: 20134472 Facility Status: Closed VA LTANKS Pollution Complaint #: 20134472 Pollution Complaint #: 20084541 Facility Status: Closed CEDs Facility Id: 200000193210 VA UST Tank Status: CURR IN USE Facility Id: 4006750 CEDs Facility ID: 200000193210 VA Financial Assurance CEDs Facility Id: 200000193210 ROF Own Id: 44524 Facility ID: 4006750	N/A
DANCO MART - WILLIAM 3301 WILLIAMSBURG RD RICHMOND, VA	VA RGA LUST	N/A
3301 WILLIAMSBURG A 3301 WILLIAMSBURG A RICHMOND, VA 23223	EDR US Hist Auto Stat	N/A
3301 WILLIAMSBURG R 3301 WILLIAMSBURG R RICHMOND, VA 23231	EDR US Hist Auto Stat	N/A

EXECUTIVE SUMMARY

DATABASES WITH NO MAPPED SITES

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

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

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY..... Federal Facility Site Information listing

Federal RCRA non-CORRACTS TSD facilities list

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

Federal RCRA generators list

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

Federal institutional controls / engineering controls registries

US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls
LUCIS..... Land Use Control Information System

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent CERCLIS

VA SHWS..... This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

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

VA SWF/LF..... Solid Waste Management Facilities

State and tribal leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

EXECUTIVE SUMMARY

State and tribal registered storage tank lists

INDIAN UST..... Underground Storage Tanks on Indian Land
FEMA UST..... Underground Storage Tank Listing

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

VA BROWNFIELDS..... Brownfields Site Specific Assessments

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

ODI..... Open Dump Inventory
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs
US HIST CDL..... National Clandestine Laboratory Register

Local Land Records

LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
VA SPILLS 90..... SPILLS 90 data from FirstSearch

Other Ascertainable Records

DOT OPS..... Incident and Accident Data
DOD..... Department of Defense Sites
FUDS..... Formerly Used Defense Sites
CONSENT..... Superfund (CERCLA) Consent Decrees
ROD..... Records Of Decision
UMTRA..... Uranium Mill Tailings Sites
US MINES..... Mines Master Index File
TRIS..... Toxic Chemical Release Inventory System
TSCA..... Toxic Substances Control Act
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing
SSTS..... Section 7 Tracking Systems
ICIS..... Integrated Compliance Information System
PADS..... PCB Activity Database System
MLTS..... Material Licensing Tracking System

EXECUTIVE SUMMARY

RADINFO.....	Radiation Information Database
RAATS.....	RCRA Administrative Action Tracking System
RMP.....	Risk Management Plans
VA UIC.....	Underground Injection Control Wells
VA DRYCLEANERS.....	Drycleaner List
VA ENF.....	Enforcement Actions Data
INDIAN RESERV.....	Indian Reservations
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
VA COAL ASH.....	Coal Ash Disposal Sites
EPA WATCH LIST.....	EPA WATCH LIST
US FIN ASSUR.....	Financial Assurance Information
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER.....	PCB Transformer Registration Database
COAL ASH DOE.....	Steam-Electric Plant Operation Data

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

VA RGA LF..... Recovered Government Archive Solid Waste Facilities List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

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

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

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS NFRAP site List

CERC-NFRAP: Archived sites are sites that have been removed and archived from the inventory of CERCLIS 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 this 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. This 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 a potential NPL site.

A review of the CERC-NFRAP list, as provided by EDR, and dated 10/25/2013 has revealed that there is 1 CERC-NFRAP site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>Not reported</i>	<i>4405 E MAIN ST</i>	<i>S 1/8 - 1/4 (0.132 mi.)</i>	<i>E26</i>	<i>57</i>

EXECUTIVE SUMMARY

Federal RCRA CORRACTS facilities list

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 03/10/2015 has revealed that there are 2 CORRACTS sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>Not reported</i>	5300 HATCHER ST	SSE 1/2 - 1 (0.795 mi.)	43	142
FEC BIOREMEDIATION F	200 MAURY STREET	W 1/2 - 1 (0.898 mi.)	44	155

State and tribal leaking storage tank lists

VA LUST: The Leaking Underground Storage Tank Database.

A review of the VA LUST list, as provided by EDR, and dated 05/18/2004 has revealed that there are 17 VA LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LEHIGH PORTLAND CEME Pollution Complaint #: 19901282 Facility Status: Closed	3111 WATER ST	SW 0 - 1/8 (0.085 mi.)	C13	20
RICHMOND CAPITAL TRA Pollution Complaint #: 20134384 Facility Status: Closed	3111 WATER ST	SW 0 - 1/8 (0.085 mi.)	C14	26
INTERMEDIATE TERMINA Pollution Complaint #: 20074563 Facility Status: Closed	3101 WHARF ST	SSW 0 - 1/8 (0.111 mi.)	16	27
TARMAC READY MIXED C Pollution Complaint #: 19942762 Pollution Complaint #: 19910630 Facility Status: Closed	3011 DOCK ST	WNW 0 - 1/8 (0.119 mi.)	18	27
LONE STAR RICHMOND T Pollution Complaint #: 19940384 Facility Status: Closed	111 N NICHOLSON ST	SSE 0 - 1/8 (0.121 mi.)	D20	41
CROWN TERMINAL FORME Pollution Complaint #: 20034469 Facility Status: Closed	4400 E MAIN ST	S 1/8 - 1/4 (0.130 mi.)	E25	56
CROWN RICHMOND TERMI Pollution Complaint #: 19940866 Pollution Complaint #: 19900531 Facility Status: Closed	4405 E MAIN ST	S 1/8 - 1/4 (0.132 mi.)	E27	80
EAST COAST FORMER Pollution Complaint #: 19974056 Facility Status: Closed	2801 E MAIN ST	NW 1/8 - 1/4 (0.243 mi.)	F30	85
MANCHESTER BOARD AND Pollution Complaint #: 19911188 Facility Status: Closed	200 ORLEAN ST	SSE 1/4 - 1/2 (0.256 mi.)	32	86

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LUCKY STRIKE POWER P Pollution Complaint #: 20084187 Facility Status: Closed	2700 E CARY ST	NW 1/4 - 1/2 (0.296 mi.)	G33	86
KAYO Pollution Complaint #: 19974157 Facility Status: Closed	2708 E MAIN ST	NW 1/4 - 1/2 (0.296 mi.)	34	87
AMERICAN TOBACCO CO Pollution Complaint #: 19974275 Pollution Complaint #: 19890299 Facility Status: Closed	2620 E CARY ST	NW 1/4 - 1/2 (0.333 mi.)	G36	94
RICHMOND WWTW Pollution Complaint #: 19940642 Pollution Complaint #: 19940381 Pollution Complaint #: 19931608 Facility Status: Closed	1400 BRANDER STREET	W 1/4 - 1/2 (0.381 mi.)	37	94
REYNOLDS EQUIPMENT C Pollution Complaint #: 19921501 Facility Status: Closed	509 GODDIN ST	SSE 1/4 - 1/2 (0.467 mi.)	39	139
VOGELEY KEVIN PROPER Pollution Complaint #: 20124694 Facility Status: Closed	416 N 28TH ST	N 1/4 - 1/2 (0.469 mi.)	H40	140
MCCARTHY JIMMY Pollution Complaint #: 19900702 Facility Status: Closed	2720 E MARSHALL ST	N 1/4 - 1/2 (0.483 mi.)	H41	140
BMG METALS INCORPORA Pollution Complaint #: 19932318 Pollution Complaint #: 19921545 Facility Status: Closed	5100 OLD OSBORNE TPK	S 1/4 - 1/2 (0.497 mi.)	42	140

VA LTANKS: The Leaking Tanks Database contains current Leaking petroleum tanks. The data comes from the Department of Environmental Quality.

A review of the VA LTANKS list, as provided by EDR, and dated 05/01/2015 has revealed that there are 19 VA LTANKS sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LEHIGH PORTLAND CEME Pollution Complaint #: 19901282 Facility Status: Closed CEDs Facility Id: 200000072477	3111 WATER ST	SW 0 - 1/8 (0.085 mi.)	C13	20
RICHMOND CAPITAL TRA Pollution Complaint #: 20134384 Facility Status: Closed CEDs Facility Id: 200000859171	3111 WATER ST	SW 0 - 1/8 (0.085 mi.)	C14	26
INTERMEDIATE TERMINA Pollution Complaint #: 20074563 Facility Status: Closed CEDs Facility Id: 200000846227	3101 WHARF ST	SSW 0 - 1/8 (0.111 mi.)	16	27
108 NICHOLSON STREET Pollution Complaint #: 20154425 Facility Status: Closed CEDs Facility Id: 200000880195	108 NICHOLSON ST	SSE 0 - 1/8 (0.117 mi.)	D17	27

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
TARMAC READY MIXED C Pollution Complaint #: 19942762 Pollution Complaint #: 19910630 Facility Status: Closed CEDS Facility Id: 200000176693	3011 DOCK ST	WNW 0 - 1/8 (0.119 mi.)	18	27
116 NICHOLSON STREET Pollution Complaint #: 20154423 Facility Status: Closed CEDS Facility Id: 200000879970	116 NICHOLSON ST	SSE 0 - 1/8 (0.120 mi.)	D19	40
LONE STAR RICHMOND T Pollution Complaint #: 19940384 Facility Status: Closed CEDS Facility Id: 200000176706	111 N NICHOLSON ST	SSE 0 - 1/8 (0.121 mi.)	D20	41
CROWN TERMINAL FORME Pollution Complaint #: 20034469 Facility Status: Closed CEDS Facility Id: 200000210602	4400 E MAIN ST	S 1/8 - 1/4 (0.130 mi.)	E25	56
CROWN RICHMOND TERMI Pollution Complaint #: 19940866 Pollution Complaint #: 19900531 Facility Status: Closed CEDS Facility Id: 200000087863	4405 E MAIN ST	S 1/8 - 1/4 (0.132 mi.)	E27	80
EAST COAST FORMER Pollution Complaint #: 19974056 Facility Status: Closed CEDS Facility Id: 200000158324	2801 E MAIN ST	NW 1/8 - 1/4 (0.243 mi.)	F30	85
MANCHESTER BOARD AND Pollution Complaint #: 19911188 Facility Status: Closed CEDS Facility Id: 200000167098	200 ORLEAN ST	SSE 1/4 - 1/2 (0.256 mi.)	32	86
LUCKY STRIKE POWER P Pollution Complaint #: 20084187 Facility Status: Closed CEDS Facility Id: 200000847642	2700 E CARY ST	NW 1/4 - 1/2 (0.296 mi.)	G33	86
KAYO Pollution Complaint #: 19974157 Facility Status: Closed CEDS Facility Id: 200000156135	2708 E MAIN ST	NW 1/4 - 1/2 (0.296 mi.)	34	87
AMERICAN TOBACCO CO Pollution Complaint #: 19974275 Pollution Complaint #: 19890299 Facility Status: Closed CEDS Facility Id: 200000168604	2620 E CARY ST	NW 1/4 - 1/2 (0.333 mi.)	G36	94
RICHMOND WWTW Pollution Complaint #: 19940642 Pollution Complaint #: 19940381 Pollution Complaint #: 19931608 Facility Status: Closed CEDS Facility Id: 200000173817	1400 BRANDER STREET	W 1/4 - 1/2 (0.381 mi.)	37	94
REYNOLDS EQUIPMENT C Pollution Complaint #: 19921501 Facility Status: Closed CEDS Facility Id: 200000170113	509 GODDIN ST	SSE 1/4 - 1/2 (0.467 mi.)	39	139

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
VOGELEY KEVIN PROPER Pollution Complaint #: 20124694 Facility Status: Closed CEDs Facility Id: 200000857695	416 N 28TH ST	N 1/4 - 1/2 (0.469 mi.)	H40	140
MCCARTHY JIMMY Pollution Complaint #: 19900702 Facility Status: Closed CEDs Facility Id: 200000174813	2720 E MARSHALL ST	N 1/4 - 1/2 (0.483 mi.)	H41	140
BMG METALS INCORPORA Pollution Complaint #: 19932318 Facility Status: Closed CEDs Facility Id: 200000166699	5100 OLD OSBORNE TPK	S 1/4 - 1/2 (0.497 mi.)	42	140

State and tribal registered storage tank lists

VA UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Quality's Underground Storage Tank Data Notification Information.

A review of the VA UST list, as provided by EDR, and dated 05/01/2015 has revealed that there are 5 VA UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LEHIGH PORTLAND CEME Tank Status: REM FROM GRD Facility Id: 4001401 CEDs Facility ID: 200000072477	3111 WATER ST	SW 0 - 1/8 (0.085 mi.)	C13	20
TARMAC READY MIXED C Tank Status: REM FROM GRD Facility Id: 4000172 CEDs Facility ID: 200000176693	3011 DOCK ST	WNW 0 - 1/8 (0.119 mi.)	18	27
TARMAC LONE STAR RIC Tank Status: REM FROM GRD Facility Id: 4000166 CEDs Facility ID: 200000176706	111 N NICHOLSON ST	SSE 0 - 1/8 (0.121 mi.)	D21	41
Not reported Tank Status: REM FROM GRD Facility Id: 4001652 CEDs Facility ID: 200000087863	4405 E MAIN ST	S 1/8 - 1/4 (0.132 mi.)	E26	57
EAST COAST (FORMER) Tank Status: REM FROM GRD Facility Id: 4027811 CEDs Facility ID: 200000158324	2801 E MAIN ST	NW 1/8 - 1/4 (0.243 mi.)	F29	80

EXECUTIVE SUMMARY

VA AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Department of Environmental Quality's Aboveground Storage Tank Data Notification Information.

A review of the VA AST list, as provided by EDR, and dated 05/01/2015 has revealed that there are 2 VA AST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
TARMAC LONE STAR RIC Facility ID: 4000166 CEDS Facility ID: 200000176706	111 N NICHOLSON ST	SSE 0 - 1/8 (0.121 mi.)	D21	41
Not reported Facility ID: 4001652 CEDS Facility ID: 200000087863	4405 E MAIN ST	S 1/8 - 1/4 (0.132 mi.)	E26	57

State and tribal institutional control / engineering control registries

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

A review of the VA ENG CONTROLS list, as provided by EDR, and dated 06/23/2015 has revealed that there is 1 VA ENG CONTROLS site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ROCKETTS-HENRICO PHA Facility ID: VRP00517	251 ROCKETTS WAYS	S 1/4 - 1/2 (0.443 mi.)	38	137

Sites included in the Voluntary Remediation Program that have Deed Restrictions.

A review of the VA INST CONTROL list, as provided by EDR, and dated 06/23/2015 has revealed that there is 1 VA INST CONTROL site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ROCKETTS-HENRICO PHA Facility ID: VRP00517	251 ROCKETTS WAYS	S 1/4 - 1/2 (0.443 mi.)	38	137

State and tribal voluntary cleanup sites

VA VCP: The Voluntary Remediation Program encourages owners of selected contaminated sites to take the initiative to conduct voluntary cleanups that meet state environmental standards. These sites are generally either open dumps or unpermitted solid waste disposal facilities. VRP sites can not be listed on the NPL, nor can they involve disposed RCRA hazardous wastes. The source of this data is the Department of Environmental Quality.

A review of the VA VCP list, as provided by EDR, and dated 06/23/2015 has revealed that there are 2 VA VCP sites within approximately 0.5 miles of the target property.

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ALLISON AND ADDISON Facility ID: VRP00565	1300 BRANDER STREET	WSW 1/4 - 1/2 (0.322 mi.)	35	92
ROCKETTS-HENRICO PHA Facility ID: VRP00517	251 ROCKETTS WAYS	S 1/4 - 1/2 (0.443 mi.)	38	137

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: The EPA's listing of Brownfields properties from the Cleanups in My Community program, which provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

A review of the US BROWNFIELDS list, as provided by EDR, and dated 03/23/2015 has revealed that there is 1 US BROWNFIELDS site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LEHIGH CEMENT	3011 WATER STREET	W 0 - 1/8 (0.077 mi.)	11	17

Other Ascertainable Records

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.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/10/2015 has revealed that there are 2 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
TITAN VA READY-MIX, Not reported	111 NICHOLSON ST 4405 E MAIN ST	SSE 0 - 1/8 (0.121 mi.) S 1/8 - 1/4 (0.132 mi.)	D22 E26	54 57

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste.

EXECUTIVE SUMMARY

Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

A review of the EDR MGP list, as provided by EDR, has revealed that there are 2 EDR MGP sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
RICHMOND GAS CO	DOCK STREET	NW 1/2 - 1 (0.959 mi.)	45	159

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MUNICIPAL GAS WORKS	WILLIAMSBURG AND E M	0 - 1/8 (0.000 mi.)	A6	16

EDR US Hist Auto Stat: 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.

A review of the EDR US Hist Auto Stat list, as provided by EDR, has revealed that there are 8 EDR US Hist Auto Stat sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
Not reported	3302 WILLIAMSBURG A	NNE 0 - 1/8 (0.017 mi.)	7	16
Not reported	3205 WILLIAMSBURG A	NNW 0 - 1/8 (0.030 mi.)	B8	16
Not reported	3109 WILLIAMSBURG A	NW 0 - 1/8 (0.055 mi.)	B9	17
Not reported	3118 WILLIAMSBURG A	NW 0 - 1/8 (0.062 mi.)	B10	17
Not reported	3050 WILLIAMSBURG A	NW 0 - 1/8 (0.078 mi.)	12	20
OPMS MGR	4401 E MAIN ST	S 1/8 - 1/4 (0.129 mi.)	E23	55
OSCAR S CROWN SERVIC	4400 E MAIN ST	S 1/8 - 1/4 (0.130 mi.)	E24	55
Not reported	2801 E MAIN ST	NW 1/8 - 1/4 (0.243 mi.)	F31	86

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

A review of the EDR US Hist Cleaners list, as provided by EDR, has revealed that there are 2 EDR US Hist Cleaners sites within approximately 0.25 miles of the target property.

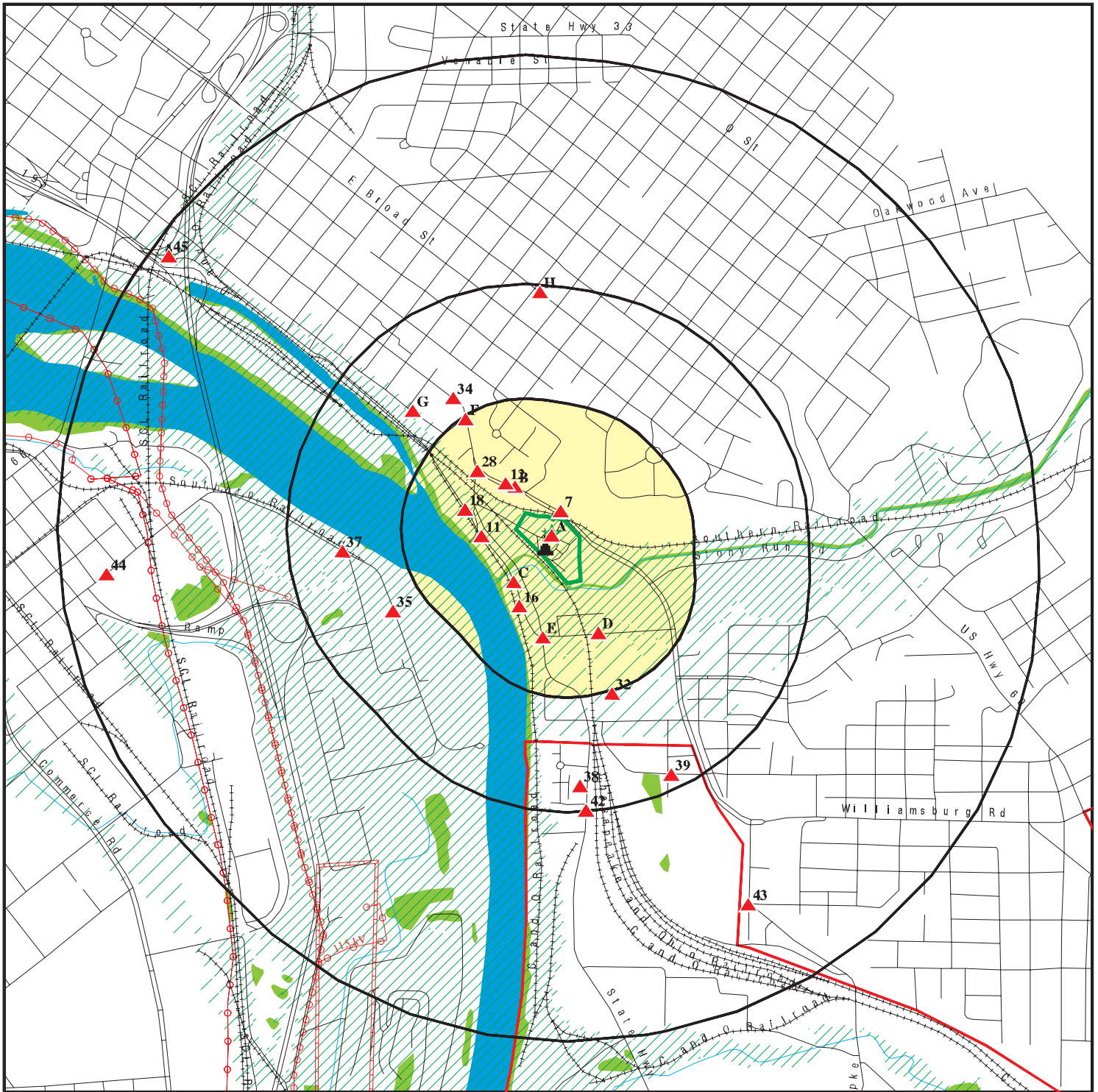
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CEMENT WHOL LEHIGH P	3111 WATER ST	SW 0 - 1/8 (0.085 mi.)	C15	27
Not reported	2909 WILLIAMSBURG A	NW 1/8 - 1/4 (0.140 mi.)	28	80

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 12 records.

<u>Site Name</u>	<u>Database(s)</u>
BYRD INTERNATIONAL AIRPORT	CERC-NFRAP
ROCKETTS LANDING	VA INST CONTROL, VA VCP
SECOND BAPTIST CHURCH FORMER	VA LUST, VA LTANKS
VDOT 17TH AND DOCK ST	VA LUST, VA LTANKS
COMMERCIAL SHOPPING CENTER	VA LUST
THORPE AND ARONSON PARTNERSHIP	VA LUST, VA LTANKS
LAYFIELD BUILDING FORMER	VA LUST, VA LTANKS
MARRIOTT AND CHAVEZ PARKING LOTS	VA LUST, VA LTANKS
NEW FEDERAL COURTHOUSE SITE	VA LUST, VA LTANKS
WINN BUS LINES INC	VA LUST
FIRST FREEDOM CENTER	VA LUST, VA LTANKS
LEWIS STREET AND NICHOLSON STREET	VA LTANKS

OVERVIEW MAP - 4370257.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

County Boundary

Power transmission lines

Pipelines

100-year flood zone

500-year flood zone

National Wetland Inventory

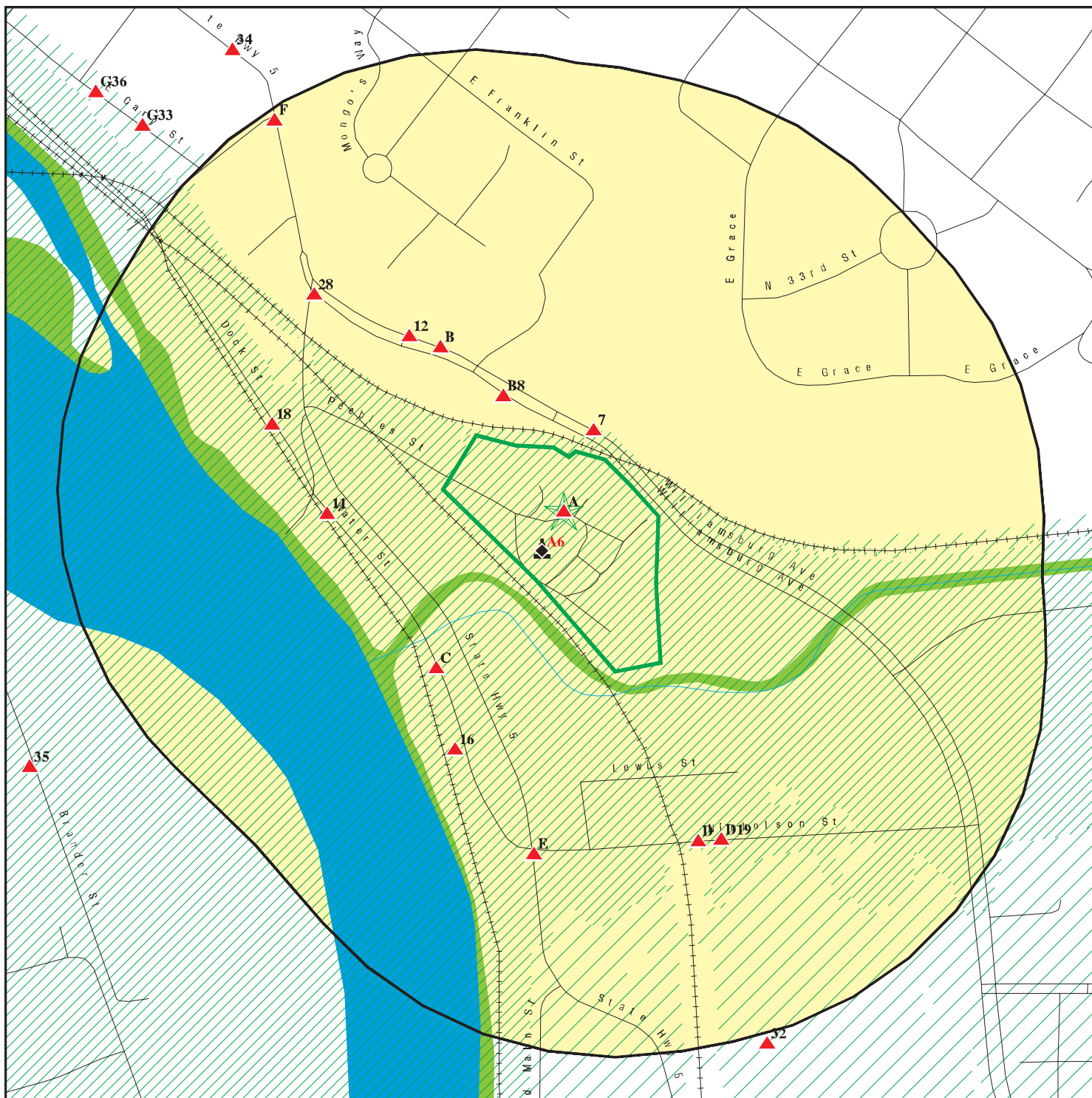









This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.





SITE NAME: Fulton Gas Works
 ADDRESS: 3301 Williamsburg Avenue
 Richmond VA 23223
 LAT/LONG: 37.5236 / 77.4155

CLIENT: Timmons Group
 CONTACT: Chase Farnsworth
 INQUIRY #: 4370257.2s
 DATE: July 31, 2015 1:38 pm

DETAIL MAP - 4370257.2S



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  Sensitive Receptors
-  National Priority List Sites
-  Dept. Defense Sites

-  Indian Reservations BIA
-  100-year flood zone
-  500-year flood zone
-  National Wetland Inventory

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

<p>SITE NAME: Fulton Gas Works ADDRESS: 3301 Williamsburg Avenue Richmond VA 23223 LAT/LONG: 37.5236 / 77.4155</p>	<p>CLIENT: Timmons Group CONTACT: Chase Farnsworth INQUIRY #: 4370257.2s DATE: July 31, 2015 1:40 pm</p>
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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
<i>Federal NPL site list</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
CERCLIS	0.500		0	0	0	NR	NR	0
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site List</i>								
CERC-NFRAP	0.500		0	1	0	NR	NR	1
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	0	0	2	NR	2
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
<i>Federal institutional controls / engineering controls registries</i>								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	TP		NR	NR	NR	NR	NR	0
<i>State- and tribal - equivalent CERCLIS</i>								
VA SHWS	N/A		N/A	N/A	N/A	N/A	N/A	N/A
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
VA SWF/LF	0.500		0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
VA LUST	0.500	1	5	3	9	NR	NR	18
VA LTANKS	0.500	1	7	3	9	NR	NR	20
INDIAN LUST	0.500		0	0	0	NR	NR	0
<i>State and tribal registered storage tank lists</i>								
VA UST	0.250	1	3	2	NR	NR	NR	6

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
VA AST	0.250		1	1	NR	NR	NR	2
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
VA ENG CONTROLS	0.500		0	0	1	NR	NR	1
VA INST CONTROL	0.500		0	0	1	NR	NR	1
State and tribal voluntary cleanup sites								
VA VCP	0.500		0	0	2	NR	NR	2
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
VA BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		1	0	0	NR	NR	1
Local Lists of Landfill / Solid Waste Disposal Sites								
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
VA SPILLS	TP		NR	NR	NR	NR	NR	0
VA SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		1	1	NR	NR	NR	2
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

A1
Target
Property

DANCO
3301 WILLIAMSBURG RD
RICHMOND, VA 23231

FINDS **1012307798**
N/A

Site 1 of 6 in cluster A

Actual:
14 ft.

FINDS:

Registry ID: 110040427936

Environmental Interest/Information System

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

A2
Target
Property

DANCO
3301 WILLIAMSBURG RD
RICHMOND, VA 23231

VA LUST **U003684036**
VA LTANKS **N/A**
VA UST
VA Financial Assurance

Site 2 of 6 in cluster A

Actual:
14 ft.

LUST REG PD:

Region: PD
Status: **Closed**
Pollution Complaint #: 20084541
Reg Code: PRO

Region: PD
Status: **Closed**
Pollution Complaint #: 20134472
Reg Code: PRO

LTANKS:

Region: PRO
CEDS Facility Id: 200000193210
Case Status: **Closed**
Pollution Complaint #: 20134472
Reported: 05/09/2013

Region: PRO
CEDS Facility Id: 200000193210
Case Status: **Closed**
Pollution Complaint #: 20084541
Reported: 02/12/2008

Facility:

Facility Id: 4006750

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DANCO (Continued)

U003684036

Facility Type:	GAS STATION
CEDS Facility ID:	200000193210
Owner:	
Owner Id:	44524
Owner Name:	Marshall Oil Incorporated
Owner Address:	3301 Williamsburg Rd
Owner Address2:	Not reported
Owner City, State, Zip:	Richmond, VA 23231
UST Status:	Reg
AST Status:	N/A
UST:	
Facility ID:	4006750
Federally Regulated:	Yes
Tank Number:	1
Tank Capacity:	8000
Tank Contents:	GASOLINE
Tank Status:	CURR IN USE
Tank Type:	UST
Tank Material:	
Install Date:	22-APR-1983
Tank Materials: Bare Steel	No
Tank Materials: Cath Protect Steel	No
Tank Materials: Epoxy Steel	No
Tank Materials: Fiberglass	Yes
Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Double Walled	No
Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Insulated Tank Jacket	No
Tank Materials: Repaired	No
Tank Materials: Unknown	No
Tank Materials: Other	No
Tank Materials: Other Note	Not reported
Release Detection:	
Tank Release Detection: Leak Deferred	No
Tank Release Detection: Manual Gauge	No
Tank Release Detection: Auto Gauge	No
Tank Release Detection: Tank Tightness	No
Tank Release Detection: Vapor Monitor	No
Tank Release Detection: Inventory	No
Tank Release Detection: Stat Invent Recon	Yes
Tank Release Detection: Spill Install	Yes
Tank Release Detection: Overfill Install	Yes
Tank Release Detection: Groundwater	No
Tank Release Detection: Int Sec Containment	No
Tank Release Detection: Int Double Walled	No
Tank Release Detection: Other Method	No
Tank Release Detection: Other Note	Not reported
Pipe Release Detection: Leak Deferred	Not reported
Pipe Release Detection: Autoleak	No
Pipe Release Detection: Line Tightness	No

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

DANCO (Continued)

U003684036

Pipe Release Detection: Stat Invent Recon	Yes
Pipe Release Detection: Groundwater	No
Pipe Release Detection: Int Sec Containment	No
Pipe Release Det: Interior Double Walled	No
Pipe Release Detection: Other Method	No
Pipe Release Detection: Other Note	Flapper
Pipe Type:	PRESSURE
Pipe Materials: Bare Steel	No
Pipe Materials: Galvanized Steel	Yes
Pipe Materials: Copper	No
Pipe Materials: Fiberglass	No
Pipe Materials: Cath Protect	Yes
Pipe Materials: Double Walled	No
Pipe Materials: Sec Containment	No
Pipe Materials: Repaired	No
Pipe Materials: Unknown	No
Pipe Materials: Other	No
Pipe Materials: Other Note	impressed current
Facility ID:	4006750
Federally Regulated:	Yes
Tank Number:	2
Tank Capacity:	5000
Tank Contents:	GASOLINE
Tank Status:	CURR IN USE
Tank Type:	UST
Tank Material:	
Install Date:	22-APR-1983
Tank Materials: Bare Steel	No
Tank Materials: Cath Protect Steel	Yes
Tank Materials: Epoxy Steel	No
Tank Materials: Fiberglass	No
Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Double Walled	No
Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Insulated Tank Jacket	No
Tank Materials: Repaired	No
Tank Materials: Unknown	No
Tank Materials: Other	No
Tank Materials: Other Note	impressed current
Release Detection:	
Tank Release Detection: Leak Deferred	No
Tank Release Detection: Manual Gauge	No
Tank Release Detection: Auto Gauge	No
Tank Release Detection: Tank Tightness	No
Tank Release Detection: Vapor Monitor	No
Tank Release Detection: Inventory	No
Tank Release Detection: Stat Invent Recon	Yes
Tank Release Detection: Spill Install	Yes
Tank Release Detection: Overfill Install	Yes

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DANCO (Continued)

U003684036

Tank Release Detection: Groundwater	No
Tank Release Detection: Int Sec Containment	No
Tank Release Detection: Int Double Walled	No
Tank Release Detection: Other Method	No
Tank Release Detection: Other Note	Not reported
Pipe Release Detection: Leak Deferred	Not reported
Pipe Release Detection: Autoleak	No
Pipe Release Detection: Line Tightness	No
Pipe Release Detection: Stat Invent Recon	Yes
Pipe Release Detection: Groundwater	No
Pipe Release Detection: Int Sec Containment	No
Pipe Release Det: Interior Double Walled	No
Pipe Release Detection: Other Method	No
Pipe Release Detection: Other Note	Flapper
Pipe Type:	PRESSURE
Pipe Materials: Bare Steel	No
Pipe Materials: Galvanized Steel	Yes
Pipe Materials: Copper	No
Pipe Materials: Fiberglass	No
Pipe Materials: Cath Protect	Yes
Pipe Materials: Double Walled	No
Pipe Materials: Sec Containment	No
Pipe Materials: Repaired	No
Pipe Materials: Unknown	No
Pipe Materials: Other	No
Pipe Materials: Other Note	impressed current
Facility ID:	4006750
Federally Regulated:	Yes
Tank Number:	3
Tank Capacity:	5000
Tank Contents:	KEROSENE
Tank Status:	CURR IN USE
Tank Type:	UST
Tank Material:	
Install Date:	22-APR-1983
Tank Materials: Bare Steel	No
Tank Materials: Cath Protect Steel	Yes
Tank Materials: Epoxy Steel	No
Tank Materials: Fiberglass	No
Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Double Walled	No
Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Insulated Tank Jacket	No
Tank Materials: Repaired	No
Tank Materials: Unknown	No
Tank Materials: Other	No
Tank Materials: Other Note	impressed current
Release Detection:	
Tank Release Detection: Leak Deferred	No

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

DANCO (Continued)

U003684036

Tank Release Detection: Manual Gauge	No
Tank Release Detection: Auto Gauge	No
Tank Release Detection: Tank Tightness	No
Tank Release Detection: Vapor Monitor	No
Tank Release Detection: Inventory	No
Tank Release Detection: Stat Invent Recon	Yes
Tank Release Detection: Spill Install	Yes
Tank Release Detection: Overfill Install	Yes
Tank Release Detection: Groundwater	No
Tank Release Detection: Int Sec Containment	No
Tank Release Detection: Int Double Walled	No
Tank Release Detection: Other Method	No
Tank Release Detection: Other Note	Not reported
Pipe Release Detection: Leak Deferred	Not reported
Pipe Release Detection: Autoleak	No
Pipe Release Detection: Line Tightness	No
Pipe Release Detection: Stat Invent Recon	Yes
Pipe Release Detection: Groundwater	No
Pipe Release Detection: Int Sec Containment	No
Pipe Release Det: Interior Double Walled	No
Pipe Release Detection: Other Method	No
Pipe Release Detection: Other Note	Flapper
Pipe Type:	NO VALVE: SUCTION
Pipe Materials: Bare Steel	No
Pipe Materials: Galvanized Steel	Yes
Pipe Materials: Copper	No
Pipe Materials: Fiberglass	No
Pipe Materials: Cath Protect	Yes
Pipe Materials: Double Walled	No
Pipe Materials: Sec Containment	No
Pipe Materials: Repaired	No
Pipe Materials: Unknown	No
Pipe Materials: Other	No
Pipe Materials: Other Note	impressed current
Facility ID:	4006750
Federally Regulated:	Yes
Tank Number:	4
Tank Capacity:	4000
Tank Contents:	DIESEL
Tank Status:	CURR IN USE
Tank Type:	UST
Tank Material:	
Install Date:	22-APR-1983
Tank Materials: Bare Steel	No
Tank Materials: Cath Protect Steel	Yes
Tank Materials: Epoxy Steel	No
Tank Materials: Fiberglass	No
Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Double Walled	No
Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Insulated Tank Jacket	No

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

DANCO (Continued)

U003684036

Tank Materials: Repaired	No
Tank Materials: Unknown	No
Tank Materials: Other	No
Tank Materials: Other Note	impressed current

Release Detection:

Tank Release Detection: Leak Deferred	No
Tank Release Detection: Manual Gauge	No
Tank Release Detection: Auto Gauge	No
Tank Release Detection: Tank Tightness	No
Tank Release Detection: Vapor Monitor	No
Tank Release Detection: Inventory	No
Tank Release Detection: Stat Invent Recon	Yes
Tank Release Detection: Spill Install	Yes
Tank Release Detection: Overfill Install	Yes
Tank Release Detection: Groundwater	No
Tank Release Detection: Int Sec Containment	No
Tank Release Detection: Int Double Walled	No
Tank Release Detection: Other Method	No
Tank Release Detection: Other Note	Not reported
Pipe Release Detection: Leak Deferred	Not reported
Pipe Release Detection: Autoleak	No
Pipe Release Detection: Line Tightness	No
Pipe Release Detection: Stat Invent Recon	Yes
Pipe Release Detection: Groundwater	No
Pipe Release Detection: Int Sec Containment	No
Pipe Release Det: Interior Double Walled	No
Pipe Release Detection: Other Method	No
Pipe Release Detection: Other Note	Flapper

Pipe Type:	NO VALVE: SUCTION
Pipe Materials: Bare Steel	No
Pipe Materials: Galvanized Steel	Yes
Pipe Materials: Copper	No
Pipe Materials: Fiberglass	No
Pipe Materials: Cath Protect	Yes
Pipe Materials: Double Walled	No
Pipe Materials: Sec Containment	No
Pipe Materials: Repaired	No
Pipe Materials: Unknown	No
Pipe Materials: Other	No
Pipe Materials: Other Note	impressed current

Facility ID:	4006750
Federally Regulated:	Yes

Tank Number:	5
Tank Capacity:	4000
Tank Contents:	DIESEL
Tank Status:	CURR IN USE
Tank Type:	UST

Tank Material:	
Install Date:	22-APR-1983
Tank Materials: Bare Steel	No
Tank Materials: Cath Protect Steel	Yes

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

DANCO (Continued)

U003684036

Tank Materials: Epoxy Steel	No
Tank Materials: Fiberglass	No
Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Double Walled	No
Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Insulated Tank Jacket	No
Tank Materials: Repaired	No
Tank Materials: Unknown	No
Tank Materials: Other	No
Tank Materials: Other Note	impressed current

Release Detection:

Tank Release Detection: Leak Deferred	No
Tank Release Detection: Manual Gauge	No
Tank Release Detection: Auto Gauge	No
Tank Release Detection: Tank Tightness	No
Tank Release Detection: Vapor Monitor	No
Tank Release Detection: Inventory	No
Tank Release Detection: Stat Invent Recon	Yes
Tank Release Detection: Spill Install	Yes
Tank Release Detection: Overfill Install	Yes
Tank Release Detection: Groundwater	No
Tank Release Detection: Int Sec Containment	No
Tank Release Detection: Int Double Walled	No
Tank Release Detection: Other Method	No
Tank Release Detection: Other Note	Not reported
Pipe Release Detection: Leak Deferred	Not reported
Pipe Release Detection: Autoleak	No
Pipe Release Detection: Line Tightness	No
Pipe Release Detection: Stat Invent Recon	Yes
Pipe Release Detection: Groundwater	No
Pipe Release Detection: Int Sec Containment	No
Pipe Release Det: Interior Double Walled	No
Pipe Release Detection: Other Method	No
Pipe Release Detection: Other Note	Flapper

Pipe Type:

Pipe Materials: Bare Steel	No
Pipe Materials: Galvanized Steel	Yes
Pipe Materials: Copper	No
Pipe Materials: Fiberglass	No
Pipe Materials: Cath Protect	Yes
Pipe Materials: Double Walled	No
Pipe Materials: Sec Containment	No
Pipe Materials: Repaired	No
Pipe Materials: Unknown	No
Pipe Materials: Other	No
Pipe Materials: Other Note	impressed current

Facility ID:	4006750
Federally Regulated:	Yes

Tank Number:	6
Tank Capacity:	4000

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

DANCO (Continued)

U003684036

Tank Contents:	OTHER
Tank Status:	CURR IN USE
Tank Type:	UST
Tank Material:	
Install Date:	22-APR-1983
Tank Materials: Bare Steel	No
Tank Materials: Cath Protect Steel	Yes
Tank Materials: Epoxy Steel	No
Tank Materials: Fiberglass	No
Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Double Walled	No
Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Insulated Tank Jacket	No
Tank Materials: Repaired	No
Tank Materials: Unknown	No
Tank Materials: Other	No
Tank Materials: Other Note	Not reported
Release Detection:	
Tank Release Detection: Leak Deferred	No
Tank Release Detection: Manual Gauge	No
Tank Release Detection: Auto Gauge	No
Tank Release Detection: Tank Tightness	No
Tank Release Detection: Vapor Monitor	No
Tank Release Detection: Inventory	No
Tank Release Detection: Stat Invent Recon	Yes
Tank Release Detection: Spill Install	Yes
Tank Release Detection: Overfill Install	Yes
Tank Release Detection: Groundwater	No
Tank Release Detection: Int Sec Containment	No
Tank Release Detection: Int Double Walled	No
Tank Release Detection: Other Method	No
Tank Release Detection: Other Note	Not reported
Pipe Release Detection: Leak Deferred	Not reported
Pipe Release Detection: Autoleak	No
Pipe Release Detection: Line Tightness	No
Pipe Release Detection: Stat Invent Recon	Yes
Pipe Release Detection: Groundwater	No
Pipe Release Detection: Int Sec Containment	No
Pipe Release Det: Interior Double Walled	No
Pipe Release Detection: Other Method	No
Pipe Release Detection: Other Note	No shut-off alarm installed.
Pipe Type:	NO VALVE: SUCTION
Pipe Materials: Bare Steel	No
Pipe Materials: Galvanized Steel	No
Pipe Materials: Copper	No
Pipe Materials: Fiberglass	Yes
Pipe Materials: Cath Protect	No
Pipe Materials: Double Walled	No
Pipe Materials: Sec Containment	No
Pipe Materials: Repaired	No
Pipe Materials: Unknown	No
Pipe Materials: Other	No

MAP FINDINGS

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

A5		EDR US Hist Auto Stat	1015430216
Target Property	3301 WILLIAMSBURG RD RICHMOND, VA 23231		N/A

Site 5 of 6 in cluster A

Actual: EDR Historical Auto Stations:
14 ft. Name: VIRGINIA PETROLEUM
 Year: 2010
 Address: 3301 WILLIAMSBURG RD

A6		EDR MGP	1008408682
< 1/8 1 ft.	MUNICIPAL GAS WORKS WILLIAMSBURG AND E MAIN STREET RICHMOND, VA 23223		N/A

Site 6 of 6 in cluster A

Relative: Manufactured Gas Plants:
Lower No additional information available

Actual:
12 ft.

7		EDR US Hist Auto Stat	1015430323
NNE < 1/8 0.017 mi. 90 ft.	3302 WILLIAMSBURG AVE RICHMOND, VA 23223		N/A

Relative: EDR Historical Auto Stations:
Higher Name: C & A AUTOMOTIVE
 Year: 2011
 Address: 3302 WILLIAMSBURG AVE

Name: C & A AUTOMOTIVE
 Year: 2012
 Address: 3302 WILLIAMSBURG AVE

B8		EDR US Hist Auto Stat	1015422677
NNW < 1/8 0.030 mi. 157 ft.	3205 WILLIAMSBURG AVE RICHMOND, VA 23223		N/A

Site 1 of 3 in cluster B

Relative: EDR Historical Auto Stations:
Higher Name: WILDERS AUTO REPAIR
 Year: 2011
 Address: 3205 WILLIAMSBURG AVE

Name: WILDERS AUTO REPAIR
 Year: 2012
 Address: 3205 WILLIAMSBURG AVE

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

B9 **EDR US Hist Auto Stat** **1015413700**
NW **3109 WILLIAMSBURG AVE** **1015413700**
< 1/8 **RICHMOND, VA 23223** **N/A**
0.055 mi.
288 ft. **Site 2 of 3 in cluster B**

Relative: EDR Historical Auto Stations:
Higher Name: SUNOCO
Year: 2011
Actual: Address: 3109 WILLIAMSBURG AVE
63 ft. Name: SUNOCO
Year: 2012
Address: 3109 WILLIAMSBURG AVE

B10 **EDR US Hist Auto Stat** **1015414944**
NW **3118 WILLIAMSBURG AVE** **1015414944**
< 1/8 **RICHMOND, VA 23223** **N/A**
0.062 mi.
328 ft. **Site 3 of 3 in cluster B**

Relative: EDR Historical Auto Stations:
Higher Name: YORK AUTO REPAIR
Year: 2011
Actual: Address: 3118 WILLIAMSBURG AVE
66 ft. Name: YORK AUTO REPAIR
Year: 2012
Address: 3118 WILLIAMSBURG AVE

11 **US BROWNFIELDS** **1016354665**
West **3011 WATER STREET** **FINDS** **N/A**
< 1/8 **RICHMOND, VA 23223**
0.077 mi.
404 ft.

Relative: US BROWNFIELDS:
Higher Recipient name: Richmond, City of
Grant type: Assessment
Actual: Property name: LEHIGH CEMENT
16 ft. Property #: E0000643001
Parcel size: 1.38
Property Description: Use prior to cement plant was open space; Lehigh Cement is a longterm owner. The property is accessed by railroad tracks; it is intense developed.
Latitude: 37.523429
Longitude: -77.418135
HCM label: Address Matching-House Number
Map scale: Not reported
Point of reference: Facility/Monitoring Site Boundary Point
Datum: World Geodetic System of 1984
ACRES property ID: 102601
Start date: Not reported
Completed date: Not reported
Acres cleaned up: Not reported
Cleanup funding: Not reported
Cleanup funding source: Not reported
Assessment funding: 1950

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LEHIGH CEMENT (Continued)

1016354665

Assessment funding source:	US EPA - Brownfields Assessment Cooperative Agreement
Redevelopment funding:	Not reported
Redev. funding source:	Not reported
Redev. funding entity name:	Not reported
Redevelopment start date:	Not reported
Assessment funding entity:	Not reported
Cleanup funding entity:	Not reported
Grant type:	P
Accomplishment type:	Phase I Environmental Assessment
Accomplishment count:	1
Cooperative agreement #:	97313601
Ownership entity:	Private
Current owner:	Lehigh Cement Manufacturing
Did owner change:	N
Cleanup required:	Unknown
Video available:	No
Photo available:	No
Institutional controls required:	U
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	Not reported
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controlled substance found:	Not reported
Controlled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Y
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contaminants found description:	Not reported
PAHs found:	Not reported
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Not reported
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Not reported
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LEHIGH CEMENT (Continued)

1016354665

VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	Not reported
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Not reported
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Y
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported

FINDS:

Registry ID: 110040821331

Environmental Interest/Information System

US EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES)
is a federal online database for Brownfields Grantees to
electronically submit data directly to EPA.

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

12
NW
< 1/8
0.078 mi.
412 ft.

**3050 WILLIAMSBURG AVE
RICHMOND, VA 23223**

EDR US Hist Auto Stat

1015407974
N/A

**Relative:
Higher**

EDR Historical Auto Stations:

Name: FAS MART 87 AMOCO
Year: 2011
Address: 3050 WILLIAMSBURG AVE

**Actual:
63 ft.**

Name: FAS MART 87 AMOCO
Year: 2012
Address: 3050 WILLIAMSBURG AVE

C13
SW
< 1/8
0.085 mi.
451 ft.

**LEHIGH PORTLAND CEMENT COMPANY
3111 WATER ST
RICHMOND, VA 23223**

**FINDS
VA LUST
VA LTANKS
VA UST
VA TIER 2
US AIRS**

1004607025
N/A

Site 1 of 3 in cluster C

**Relative:
Higher**

FINDS:

**Actual:
16 ft.**

Registry ID: 110001894166

Environmental Interest/Information System

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

CEDS (Virginia - Comprehensive Environmental Data System) is the Department of Environmental Quality's (DEQ) electronic data system for maintaining databases on sources of pollutants in all media.

AIR MINOR

LUST REG PD:

Region: PD
Status: Closed
Pollution Complaint #: 19901282
Reg Code: PRO

LTANKS:

Region: PRO
CEDS Facility Id: 200000072477
Case Status: Closed
Pollution Complaint #: 19901282
Reported: 03/29/1990

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LEHIGH PORTLAND CEMENT COMPANY (Continued)

1004607025

Facility:

Facility Id: 4001401
Facility Type: COMMERCIAL
CEDS Facility ID: 200000072477

Owner:

Owner Id: 33559
Owner Name: LEHIGH PORTLAND CEMENT CO
Owner Address: 718 HAMILTON MALL
Owner Address2: LEHIGH
Owner City, State, Zip: ALLENTOWN, PA 18105
UST Status: Not reported
AST Status: Not reported

UST:

Facility ID: 4001401
Federally Regulated: Yes

Tank Number: R1
Tank Capacity: 5000
Tank Contents: DIESEL
Tank Status: REM FROM GRD
Tank Type: UST

Tank Material:

Install Date: 27-MAR-1962
Tank Materials: Bare Steel Yes
Tank Materials: Cath Protect Steel No
Tank Materials: Epoxy Steel No
Tank Materials: Fiberglass No
Tank Materials: Concrete No
Tank Materials: Composite No
Tank Materials: Double Walled No
Tank Materials: Lined Interior No
Tank Materials: Excav Liner No
Tank Materials: Insulated Tank Jacket No
Tank Materials: Repaired No
Tank Materials: Unknown No
Tank Materials: Other No
Tank Materials: Other Note Not reported

Release Detection:

Tank Release Detection: Leak Deferred No
Tank Release Detection: Manual Gauge No
Tank Release Detection: Auto Gauge No
Tank Release Detection: Tank Tightness No
Tank Release Detection: Vapor Monitor No
Tank Release Detection: Inventory No
Tank Release Detection: Stat Invent Recon No
Tank Release Detection: Spill Install No
Tank Release Detection: Overfill Install No
Tank Release Detection: Groundwater No
Tank Release Detection: Int Sec Containment No
Tank Release Detection: Int Double Walled No
Tank Release Detection: Other Method No
Tank Release Detection: Other Note Not reported
Pipe Release Detection: Leak Deferred Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LEHIGH PORTLAND CEMENT COMPANY (Continued)

1004607025

Pipe Release Detection: Autoleak	No
Pipe Release Detection: Line Tightness	No
Pipe Release Detection: Stat Invent Recon	No
Pipe Release Detection: Groundwater	No
Pipe Release Detection: Int Sec Containment	No
Pipe Release Det: Interior Double Walled	No
Pipe Release Detection: Other Method	No
Pipe Release Detection: Other Note	Not reported
Pipe Type:	UNKNOWN
Pipe Materials: Bare Steel	No
Pipe Materials: Galvanized Steel	No
Pipe Materials: Copper	No
Pipe Materials: Fiberglass	No
Pipe Materials: Cath Protect	No
Pipe Materials: Double Walled	No
Pipe Materials: Sec Containment	No
Pipe Materials: Repaired	No
Pipe Materials: Unknown	Yes
Pipe Materials: Other	No
Pipe Materials: Other Note	Not reported
Facility ID:	4001401
Federally Regulated:	Yes
Tank Number:	R2
Tank Capacity:	5000
Tank Contents:	DIESEL
Tank Status:	REM FROM GRD
Tank Type:	UST
Tank Material:	
Install Date:	27-MAR-1962
Tank Materials: Bare Steel	Yes
Tank Materials: Cath Protect Steel	No
Tank Materials: Epoxy Steel	No
Tank Materials: Fiberglass	No
Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Double Walled	No
Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Insulated Tank Jacket	No
Tank Materials: Repaired	No
Tank Materials: Unknown	No
Tank Materials: Other	No
Tank Materials: Other Note	Not reported
Release Detection:	
Tank Release Detection: Leak Deferred	No
Tank Release Detection: Manual Gauge	No
Tank Release Detection: Auto Gauge	No
Tank Release Detection: Tank Tightness	No
Tank Release Detection: Vapor Monitor	No
Tank Release Detection: Inventory	No
Tank Release Detection: Stat Invent Recon	No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LEHIGH PORTLAND CEMENT COMPANY (Continued)

1004607025

Tank Release Detection: Spill Install	No
Tank Release Detection: Overfill Install	No
Tank Release Detection: Groundwater	No
Tank Release Detection: Int Sec Containment	No
Tank Release Detection: Int Double Walled	No
Tank Release Detection: Other Method	No
Tank Release Detection: Other Note	Not reported
Pipe Release Detection: Leak Deferred	Not reported
Pipe Release Detection: Autoleak	No
Pipe Release Detection: Line Tightness	No
Pipe Release Detection: Stat Invent Recon	No
Pipe Release Detection: Groundwater	No
Pipe Release Detection: Int Sec Containment	No
Pipe Release Det: Interior Double Walled	No
Pipe Release Detection: Other Method	No
Pipe Release Detection: Other Note	Not reported

Pipe Type:	UNKNOWN
Pipe Materials: Bare Steel	No
Pipe Materials: Galvanized Steel	No
Pipe Materials: Copper	No
Pipe Materials: Fiberglass	No
Pipe Materials: Cath Protect	No
Pipe Materials: Double Walled	No
Pipe Materials: Sec Containment	No
Pipe Materials: Repaired	No
Pipe Materials: Unknown	Yes
Pipe Materials: Other	No
Pipe Materials: Other Note	Not reported

TIER 2:

CAS Number:	65997-15-1
SIC Code:	423320
NAICS:	Not reported
Entered Chemical Name:	PORTLAND CEMENT
Average Amt Code:	5
Owner Name:	LEHIGH CEMENT COMP. LLC
Owner Phone:	610-366-4600
Contact Type:	Not reported

CAS Number:	65997-15-1
SIC Code:	44419
NAICS:	Not reported
Entered Chemical Name:	PORTLAND CEMENT
Average Amt Code:	5
Owner Name:	LEHIGH PORTLAND CEMENT COMPANY
Owner Phone:	610-366-4600
Contact Type:	Not reported

CAS Number:	65997-15-1
SIC Code:	3241
NAICS:	Not reported
Entered Chemical Name:	PORTLAND CEMENT
Average Amt Code:	5
Owner Name:	LEHIGH PORTLAND CEMENT COMPANY
Owner Phone:	610-366-4600

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LEHIGH PORTLAND CEMENT COMPANY (Continued)

1004607025

Contact Type: Not reported

AIRS (AFS):

Airs Minor Details:

EPA plant ID: 110001894166
Plant name: LEHIGH PORTLAND CEMENT COMPANY
Plant address: 3111 WATER ST
RICHMOND, VA 232230000
County: RICHMOND (CITY)
Region code: 03
Dunn & Bradst #: Not reported
Air quality cntrl region: 225
Sic code: 3241
Sic code desc: CEMENT, HYDRAULIC
North Am. industrial classf: 327310
NAIC code description: Cement Manufacturing
Default compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Default classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Govt facility: ALL OTHER FACILITIES NOT OWNED OR OPERATED BY A FEDERAL, STATE, OR
LOCAL GOVERNMENT
Current HPV: Not reported

Compliance and Enforcement Major Issues:

Air program: SIP SOURCE
National action type: Not reported
Date achieved: 00000
Penalty amount: Not reported

Air program: SIP SOURCE
National action type: Not reported
Date achieved: 00000
Penalty amount: Not reported

Air program: Not reported
National action type: Not reported
Date achieved: Not reported
Penalty amount: Not reported

Air program: Not reported
National action type: Not reported
Date achieved: Not reported
Penalty amount: Not reported

Air program: Not reported
National action type: Not reported
Date achieved: Not reported
Penalty amount: Not reported

Air program: Not reported
National action type: Not reported
Date achieved: Not reported
Penalty amount: Not reported

Air program: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LEHIGH PORTLAND CEMENT COMPANY (Continued)

1004607025

National action type: Not reported
Date achieved: Not reported
Penalty amount: Not reported

Air program: Not reported
National action type: Not reported
Date achieved: Not reported
Penalty amount: Not reported

Air program: Not reported
National action type: Not reported
Date achieved: Not reported
Penalty amount: Not reported

Air program: Not reported
National action type: Not reported
Date achieved: Not reported
Penalty amount: Not reported

Air program: Not reported
National action type: Not reported
Date achieved: Not reported
Penalty amount: Not reported

Air program: Not reported
National action type: Not reported
Date achieved: Not reported
Penalty amount: Not reported

Historical Compliance Minor Sources:

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1403
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1402
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1304
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1302
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1301
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1203
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1201
Air prog code hist file: SIP SOURCE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LEHIGH PORTLAND CEMENT COMPANY (Continued)

1004607025

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1104
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1401
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1303
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1204
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1202
Air prog code hist file: SIP SOURCE

Compliance & Violation Data by Minor Sources:

Air program code: SIP SOURCE
Plant air program pollutant: TOTAL PARTICULATE MATTER
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Def. attainment/non attainment: ATTAINMENT AREA FOR GIVEN POLLUTANT
Repeat violator date: Not reported
Turnover compliance: Not reported

C14
SW
< 1/8
0.085 mi.
451 ft.

RICHMOND CAPITAL TRAIL
3111 WATER ST
RICHMOND, VA 23223
Site 2 of 3 in cluster C

VA LUST S113412157
VA LTANKS N/A

Relative:
Higher

LUST REG PD:
Region: PD
Status: Closed
Pollution Complaint #: 20134384
Reg Code: PRO

Actual:
16 ft.

LTANKS:

Region: PRO
CEDS Facility Id: 200000859171
Case Status: Closed
Pollution Complaint #: 20134384
Reported: 03/13/2012

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

C15
SW
 < 1/8
 0.085 mi.
 451 ft.

CEMENT WHOL LEHIGH PORTLAND CEMENT CO
 3111 WATER ST
 RICHMOND, VA

EDR US Hist Cleaners

1009195837
 N/A

Site 3 of 3 in cluster C

Relative:
Higher

EDR Historical Cleaners:
 Name: CEMENT WHOL LEHIGH PORTLAND CEMENT CO
 Year: 1987
 Type: CLEANERS

Actual:
 16 ft.

16
SSW
 < 1/8
 0.111 mi.
 586 ft.

INTERMEDIATE TERMINAL CITY OF RICHMOND
 3101 WHARF ST
 RICHMOND, VA 23223

VA LUST
VA LTANKS

S108489522
 N/A

Relative:
Higher

LUST REG PD:
 Region: PD
Status: Closed

Actual:
 15 ft.

Pollution Complaint #: 20074563
 Reg Code: PRO

LTANKS:
 Region: PRO
 CEDS Facility Id: 200000846227
Case Status: Closed
 Pollution Complaint #: 20074563
 Reported: 03/19/2007

D17
SSE
 < 1/8
 0.117 mi.
 620 ft.

108 NICHOLSON STREET
 108 NICHOLSON ST
 RICHMOND, VA 23231

VA LTANKS

S117881533
 N/A

Site 1 of 5 in cluster D

Relative:
Higher

LTANKS:
 Region: PRO
 CEDS Facility Id: 200000880195
Case Status: Closed

Actual:
 35 ft.

Pollution Complaint #: 20154425
 Reported: 03/16/2015

18
WNW
 < 1/8
 0.119 mi.
 627 ft.

TARMAC READY MIXED CONCRETE PLANT
 3011 DOCK ST
 RICHMOND, VA 23223

VA LUST
VA LTANKS
VA UST

U003682614
 N/A

Relative:
Higher

LUST REG PD:
 Region: PD
Status: Closed

Actual:
 17 ft.

Pollution Complaint #: 19942762
 Reg Code: PRO

Region: PD

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TARMAC READY MIXED CONCRETE PLANT (Continued)

U003682614

Status: Closed
Pollution Complaint #: 19910630
Reg Code: PRO

LTANKS:

Region: PRO
CEDS Facility Id: 200000176693
Case Status: Closed
Pollution Complaint #: 19942762
Reported: 03/10/1994

Region: PRO
CEDS Facility Id: 200000176693
Case Status: Closed
Pollution Complaint #: 19910630
Reported: 10/25/1990

Facility:

Facility Id: 4000172
Facility Type: INDUSTRIAL
CEDS Facility ID: 200000176693

Owner:

Owner Id: 34612
Owner Name: Tarmac Mid-Atlantic Inc
Owner Address: 1151 Azalea Garden Rd
Owner Address2: Not reported
Owner City, State, Zip: Norfolk, VA 23502
UST Status: Not reported
AST Status: Not reported

UST:

Facility ID: 4000172
Federally Regulated: Yes

Tank Number: R1
Tank Capacity: 3000
Tank Contents: DIESEL
Tank Status: REM FROM GRD
Tank Type: UST

Tank Material:

Install Date: 01-JAN-1970
Tank Materials: Bare Steel Yes
Tank Materials: Cath Protect Steel No
Tank Materials: Epoxy Steel No
Tank Materials: Fiberglass No
Tank Materials: Concrete No
Tank Materials: Composite No
Tank Materials: Double Walled No
Tank Materials: Lined Interior No
Tank Materials: Excav Liner No
Tank Materials: Insulated Tank Jacket No
Tank Materials: Repaired No
Tank Materials: Unknown No
Tank Materials: Other No
Tank Materials: Other Note Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TARMAC READY MIXED CONCRETE PLANT (Continued)

U003682614

Release Detection:

Tank Release Detection: Leak Deferred	No
Tank Release Detection: Manual Gauge	No
Tank Release Detection: Auto Gauge	No
Tank Release Detection: Tank Tightness	No
Tank Release Detection: Vapor Monitor	No
Tank Release Detection: Inventory	No
Tank Release Detection: Stat Invent Recon	No
Tank Release Detection: Spill Install	No
Tank Release Detection: Overfill Install	No
Tank Release Detection: Groundwater	No
Tank Release Detection: Int Sec Containment	No
Tank Release Detection: Int Double Walled	No
Tank Release Detection: Other Method	No
Tank Release Detection: Other Note	Not reported
Pipe Release Detection: Leak Deferred	Not reported
Pipe Release Detection: Autoleak	No
Pipe Release Detection: Line Tightness	No
Pipe Release Detection: Stat Invent Recon	No
Pipe Release Detection: Groundwater	No
Pipe Release Detection: Int Sec Containment	No
Pipe Release Det: Interior Double Walled	No
Pipe Release Detection: Other Method	No
Pipe Release Detection: Other Note	Not reported

Pipe Type:	UNKNOWN
Pipe Materials: Bare Steel	Yes
Pipe Materials: Galvanized Steel	No
Pipe Materials: Copper	No
Pipe Materials: Fiberglass	No
Pipe Materials: Cath Protect	No
Pipe Materials: Double Walled	No
Pipe Materials: Sec Containment	No
Pipe Materials: Repaired	No
Pipe Materials: Unknown	No
Pipe Materials: Other	No
Pipe Materials: Other Note	Not reported

Facility ID:	4000172
Federally Regulated:	Yes

Tank Number:	R10
Tank Capacity:	1000
Tank Contents:	DIESEL
Tank Status:	REM FROM GRD
Tank Type:	UST

Tank Material:	
Install Date:	01-JAN-1970
Tank Materials: Bare Steel	Yes
Tank Materials: Cath Protect Steel	No
Tank Materials: Epoxy Steel	No
Tank Materials: Fiberglass	No
Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Double Walled	No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TARMAC READY MIXED CONCRETE PLANT (Continued)

U003682614

Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Insulated Tank Jacket	No
Tank Materials: Repaired	No
Tank Materials: Unknown	No
Tank Materials: Other	No
Tank Materials: Other Note	Not reported

Release Detection:

Tank Release Detection: Leak Deferred	No
Tank Release Detection: Manual Gauge	No
Tank Release Detection: Auto Gauge	No
Tank Release Detection: Tank Tightness	No
Tank Release Detection: Vapor Monitor	No
Tank Release Detection: Inventory	No
Tank Release Detection: Stat Invent Recon	No
Tank Release Detection: Spill Install	No
Tank Release Detection: Overfill Install	No
Tank Release Detection: Groundwater	No
Tank Release Detection: Int Sec Containment	No
Tank Release Detection: Int Double Walled	No
Tank Release Detection: Other Method	No
Tank Release Detection: Other Note	Not reported
Pipe Release Detection: Leak Deferred	Not reported
Pipe Release Detection: Autoleak	No
Pipe Release Detection: Line Tightness	No
Pipe Release Detection: Stat Invent Recon	No
Pipe Release Detection: Groundwater	No
Pipe Release Detection: Int Sec Containment	No
Pipe Release Det: Interior Double Walled	No
Pipe Release Detection: Other Method	No
Pipe Release Detection: Other Note	Not reported

Pipe Type:	UNKNOWN
Pipe Materials: Bare Steel	Yes
Pipe Materials: Galvanized Steel	No
Pipe Materials: Copper	No
Pipe Materials: Fiberglass	No
Pipe Materials: Cath Protect	No
Pipe Materials: Double Walled	No
Pipe Materials: Sec Containment	No
Pipe Materials: Repaired	No
Pipe Materials: Unknown	No
Pipe Materials: Other	No
Pipe Materials: Other Note	Not reported

Facility ID:	4000172
Federally Regulated:	Yes

Tank Number:	R2
Tank Capacity:	1000
Tank Contents:	DIESEL
Tank Status:	REM FROM GRD
Tank Type:	UST

Tank Material:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TARMAC READY MIXED CONCRETE PLANT (Continued)

U003682614

Install Date:	01-JAN-1970
Tank Materials: Bare Steel	Yes
Tank Materials: Cath Protect Steel	No
Tank Materials: Epoxy Steel	No
Tank Materials: Fiberglass	No
Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Double Walled	No
Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Insulated Tank Jacket	No
Tank Materials: Repaired	No
Tank Materials: Unknown	No
Tank Materials: Other	No
Tank Materials: Other Note	Not reported

Release Detection:

Tank Release Detection: Leak Deferred	No
Tank Release Detection: Manual Gauge	No
Tank Release Detection: Auto Gauge	No
Tank Release Detection: Tank Tightness	No
Tank Release Detection: Vapor Monitor	No
Tank Release Detection: Inventory	No
Tank Release Detection: Stat Invent Recon	No
Tank Release Detection: Spill Install	No
Tank Release Detection: Overfill Install	No
Tank Release Detection: Groundwater	No
Tank Release Detection: Int Sec Containment	No
Tank Release Detection: Int Double Walled	No
Tank Release Detection: Other Method	No
Tank Release Detection: Other Note	Not reported
Pipe Release Detection: Leak Deferred	Not reported
Pipe Release Detection: Autoleak	No
Pipe Release Detection: Line Tightness	No
Pipe Release Detection: Stat Invent Recon	No
Pipe Release Detection: Groundwater	No
Pipe Release Detection: Int Sec Containment	No
Pipe Release Det: Interior Double Walled	No
Pipe Release Detection: Other Method	No
Pipe Release Detection: Other Note	Not reported

Pipe Type:	UNKNOWN
Pipe Materials: Bare Steel	Yes
Pipe Materials: Galvanized Steel	No
Pipe Materials: Copper	No
Pipe Materials: Fiberglass	No
Pipe Materials: Cath Protect	No
Pipe Materials: Double Walled	No
Pipe Materials: Sec Containment	No
Pipe Materials: Repaired	No
Pipe Materials: Unknown	No
Pipe Materials: Other	No
Pipe Materials: Other Note	Not reported

Facility ID:	4000172
Federally Regulated:	Yes

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TARMAC READY MIXED CONCRETE PLANT (Continued)

U003682614

Tank Number:	R3
Tank Capacity:	4000
Tank Contents:	DIESEL
Tank Status:	REM FROM GRD
Tank Type:	UST
Tank Material:	
Install Date:	01-JAN-1970
Tank Materials: Bare Steel	Yes
Tank Materials: Cath Protect Steel	No
Tank Materials: Epoxy Steel	No
Tank Materials: Fiberglass	No
Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Double Walled	No
Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Insulated Tank Jacket	No
Tank Materials: Repaired	No
Tank Materials: Unknown	No
Tank Materials: Other	No
Tank Materials: Other Note	Not reported
Release Detection:	
Tank Release Detection: Leak Deferred	No
Tank Release Detection: Manual Gauge	No
Tank Release Detection: Auto Gauge	No
Tank Release Detection: Tank Tightness	No
Tank Release Detection: Vapor Monitor	No
Tank Release Detection: Inventory	No
Tank Release Detection: Stat Invent Recon	No
Tank Release Detection: Spill Install	No
Tank Release Detection: Overfill Install	No
Tank Release Detection: Groundwater	No
Tank Release Detection: Int Sec Containment	No
Tank Release Detection: Int Double Walled	No
Tank Release Detection: Other Method	No
Tank Release Detection: Other Note	Not reported
Pipe Release Detection: Leak Deferred	Not reported
Pipe Release Detection: Autoleak	No
Pipe Release Detection: Line Tightness	No
Pipe Release Detection: Stat Invent Recon	No
Pipe Release Detection: Groundwater	No
Pipe Release Detection: Int Sec Containment	No
Pipe Release Det: Interior Double Walled	No
Pipe Release Detection: Other Method	No
Pipe Release Detection: Other Note	Not reported
Pipe Type:	
Pipe Type:	UNKNOWN
Pipe Materials: Bare Steel	Yes
Pipe Materials: Galvanized Steel	No
Pipe Materials: Copper	No
Pipe Materials: Fiberglass	No
Pipe Materials: Cath Protect	No
Pipe Materials: Double Walled	No
Pipe Materials: Sec Containment	No
Pipe Materials: Repaired	No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TARMAC READY MIXED CONCRETE PLANT (Continued)

U003682614

Pipe Materials: Unknown	No
Pipe Materials: Other	No
Pipe Materials: Other Note	Not reported
Facility ID:	4000172
Federally Regulated:	Yes
Tank Number:	R4
Tank Capacity:	2000
Tank Contents:	DIESEL
Tank Status:	REM FROM GRD
Tank Type:	UST
Tank Material:	
Install Date:	01-JAN-1970
Tank Materials: Bare Steel	Yes
Tank Materials: Cath Protect Steel	No
Tank Materials: Epoxy Steel	No
Tank Materials: Fiberglass	No
Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Double Walled	No
Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Insulated Tank Jacket	No
Tank Materials: Repaired	No
Tank Materials: Unknown	No
Tank Materials: Other	No
Tank Materials: Other Note	Not reported
Release Detection:	
Tank Release Detection: Leak Deferred	No
Tank Release Detection: Manual Gauge	No
Tank Release Detection: Auto Gauge	No
Tank Release Detection: Tank Tightness	No
Tank Release Detection: Vapor Monitor	No
Tank Release Detection: Inventory	No
Tank Release Detection: Stat Invent Recon	No
Tank Release Detection: Spill Install	No
Tank Release Detection: Overfill Install	No
Tank Release Detection: Groundwater	No
Tank Release Detection: Int Sec Containment	No
Tank Release Detection: Int Double Walled	No
Tank Release Detection: Other Method	No
Tank Release Detection: Other Note	Not reported
Pipe Release Detection: Leak Deferred	Not reported
Pipe Release Detection: Autoleak	No
Pipe Release Detection: Line Tightness	No
Pipe Release Detection: Stat Invent Recon	No
Pipe Release Detection: Groundwater	No
Pipe Release Detection: Int Sec Containment	No
Pipe Release Det: Interior Double Walled	No
Pipe Release Detection: Other Method	No
Pipe Release Detection: Other Note	Not reported
Pipe Type:	UNKNOWN

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TARMAC READY MIXED CONCRETE PLANT (Continued)

U003682614

Pipe Materials: Bare Steel	Yes
Pipe Materials: Galvanized Steel	No
Pipe Materials: Copper	No
Pipe Materials: Fiberglass	No
Pipe Materials: Cath Protect	No
Pipe Materials: Double Walled	No
Pipe Materials: Sec Containment	No
Pipe Materials: Repaired	No
Pipe Materials: Unknown	No
Pipe Materials: Other	No
Pipe Materials: Other Note	Not reported
Facility ID:	4000172
Federally Regulated:	Yes
Tank Number:	R5
Tank Capacity:	4000
Tank Contents:	DIESEL
Tank Status:	REM FROM GRD
Tank Type:	UST
Tank Material:	
Install Date:	01-JAN-1970
Tank Materials: Bare Steel	Yes
Tank Materials: Cath Protect Steel	No
Tank Materials: Epoxy Steel	No
Tank Materials: Fiberglass	No
Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Double Walled	No
Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Insulated Tank Jacket	No
Tank Materials: Repaired	No
Tank Materials: Unknown	No
Tank Materials: Other	No
Tank Materials: Other Note	Not reported
Release Detection:	
Tank Release Detection: Leak Deferred	No
Tank Release Detection: Manual Gauge	No
Tank Release Detection: Auto Gauge	No
Tank Release Detection: Tank Tightness	No
Tank Release Detection: Vapor Monitor	No
Tank Release Detection: Inventory	No
Tank Release Detection: Stat Invent Recon	No
Tank Release Detection: Spill Install	No
Tank Release Detection: Overfill Install	No
Tank Release Detection: Groundwater	No
Tank Release Detection: Int Sec Containment	No
Tank Release Detection: Int Double Walled	No
Tank Release Detection: Other Method	No
Tank Release Detection: Other Note	Not reported
Pipe Release Detection: Leak Deferred	Not reported
Pipe Release Detection: Autoleak	No
Pipe Release Detection: Line Tightness	No

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

TARMAC READY MIXED CONCRETE PLANT (Continued)

U003682614

Pipe Release Detection: Stat Invent Recon	No
Pipe Release Detection: Groundwater	No
Pipe Release Detection: Int Sec Containment	No
Pipe Release Det: Interior Double Walled	No
Pipe Release Detection: Other Method	No
Pipe Release Detection: Other Note	Not reported
Pipe Type:	UNKNOWN
Pipe Materials: Bare Steel	Yes
Pipe Materials: Galvanized Steel	No
Pipe Materials: Copper	No
Pipe Materials: Fiberglass	No
Pipe Materials: Cath Protect	No
Pipe Materials: Double Walled	No
Pipe Materials: Sec Containment	No
Pipe Materials: Repaired	No
Pipe Materials: Unknown	No
Pipe Materials: Other	No
Pipe Materials: Other Note	Not reported
Facility ID:	4000172
Federally Regulated:	Yes
Tank Number:	R6
Tank Capacity:	4000
Tank Contents:	DIESEL
Tank Status:	REM FROM GRD
Tank Type:	UST
Tank Material:	
Install Date:	01-JAN-1970
Tank Materials: Bare Steel	Yes
Tank Materials: Cath Protect Steel	No
Tank Materials: Epoxy Steel	No
Tank Materials: Fiberglass	No
Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Double Walled	No
Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Insulated Tank Jacket	No
Tank Materials: Repaired	No
Tank Materials: Unknown	No
Tank Materials: Other	No
Tank Materials: Other Note	Not reported
Release Detection:	
Tank Release Detection: Leak Deferred	No
Tank Release Detection: Manual Gauge	No
Tank Release Detection: Auto Gauge	No
Tank Release Detection: Tank Tightness	No
Tank Release Detection: Vapor Monitor	No
Tank Release Detection: Inventory	No
Tank Release Detection: Stat Invent Recon	No
Tank Release Detection: Spill Install	No
Tank Release Detection: Overfill Install	No

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

TARMAC READY MIXED CONCRETE PLANT (Continued)

U003682614

Tank Release Detection: Groundwater	No
Tank Release Detection: Int Sec Containment	No
Tank Release Detection: Int Double Walled	No
Tank Release Detection: Other Method	No
Tank Release Detection: Other Note	Not reported
Pipe Release Detection: Leak Deferred	Not reported
Pipe Release Detection: Autoleak	No
Pipe Release Detection: Line Tightness	No
Pipe Release Detection: Stat Invent Recon	No
Pipe Release Detection: Groundwater	No
Pipe Release Detection: Int Sec Containment	No
Pipe Release Det: Interior Double Walled	No
Pipe Release Detection: Other Method	No
Pipe Release Detection: Other Note	Not reported
Pipe Type:	UNKNOWN
Pipe Materials: Bare Steel	Yes
Pipe Materials: Galvanized Steel	No
Pipe Materials: Copper	No
Pipe Materials: Fiberglass	No
Pipe Materials: Cath Protect	No
Pipe Materials: Double Walled	No
Pipe Materials: Sec Containment	No
Pipe Materials: Repaired	No
Pipe Materials: Unknown	No
Pipe Materials: Other	No
Pipe Materials: Other Note	Not reported
Facility ID:	4000172
Federally Regulated:	Yes
Tank Number:	R7
Tank Capacity:	3000
Tank Contents:	DIESEL
Tank Status:	REM FROM GRD
Tank Type:	UST
Tank Material:	
Install Date:	01-JAN-1970
Tank Materials: Bare Steel	Yes
Tank Materials: Cath Protect Steel	No
Tank Materials: Epoxy Steel	No
Tank Materials: Fiberglass	No
Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Double Walled	No
Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Insulated Tank Jacket	No
Tank Materials: Repaired	No
Tank Materials: Unknown	No
Tank Materials: Other	No
Tank Materials: Other Note	Not reported
Release Detection:	
Tank Release Detection: Leak Deferred	No

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

TARMAC READY MIXED CONCRETE PLANT (Continued)

U003682614

Tank Release Detection: Manual Gauge	No
Tank Release Detection: Auto Gauge	No
Tank Release Detection: Tank Tightness	No
Tank Release Detection: Vapor Monitor	No
Tank Release Detection: Inventory	No
Tank Release Detection: Stat Invent Recon	No
Tank Release Detection: Spill Install	No
Tank Release Detection: Overfill Install	No
Tank Release Detection: Groundwater	No
Tank Release Detection: Int Sec Containment	No
Tank Release Detection: Int Double Walled	No
Tank Release Detection: Other Method	No
Tank Release Detection: Other Note	Not reported
Pipe Release Detection: Leak Deferred	Not reported
Pipe Release Detection: Autoleak	No
Pipe Release Detection: Line Tightness	No
Pipe Release Detection: Stat Invent Recon	No
Pipe Release Detection: Groundwater	No
Pipe Release Detection: Int Sec Containment	No
Pipe Release Det: Interior Double Walled	No
Pipe Release Detection: Other Method	No
Pipe Release Detection: Other Note	Not reported
Pipe Type:	UNKNOWN
Pipe Materials: Bare Steel	Yes
Pipe Materials: Galvanized Steel	No
Pipe Materials: Copper	No
Pipe Materials: Fiberglass	No
Pipe Materials: Cath Protect	No
Pipe Materials: Double Walled	No
Pipe Materials: Sec Containment	No
Pipe Materials: Repaired	No
Pipe Materials: Unknown	No
Pipe Materials: Other	No
Pipe Materials: Other Note	Not reported
Facility ID:	4000172
Federally Regulated:	Yes
Tank Number:	R8
Tank Capacity:	10000
Tank Contents:	DIESEL
Tank Status:	REM FROM GRD
Tank Type:	UST
Tank Material:	
Install Date:	01-JAN-1970
Tank Materials: Bare Steel	Yes
Tank Materials: Cath Protect Steel	No
Tank Materials: Epoxy Steel	No
Tank Materials: Fiberglass	No
Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Double Walled	No
Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Insulated Tank Jacket	No

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

TARMAC READY MIXED CONCRETE PLANT (Continued)

U003682614

Tank Materials: Repaired	No
Tank Materials: Unknown	No
Tank Materials: Other	No
Tank Materials: Other Note	Not reported
Release Detection:	
Tank Release Detection: Leak Deferred	No
Tank Release Detection: Manual Gauge	No
Tank Release Detection: Auto Gauge	No
Tank Release Detection: Tank Tightness	No
Tank Release Detection: Vapor Monitor	No
Tank Release Detection: Inventory	No
Tank Release Detection: Stat Invent Recon	No
Tank Release Detection: Spill Install	No
Tank Release Detection: Overfill Install	No
Tank Release Detection: Groundwater	No
Tank Release Detection: Int Sec Containment	No
Tank Release Detection: Int Double Walled	No
Tank Release Detection: Other Method	No
Tank Release Detection: Other Note	Not reported
Pipe Release Detection: Leak Deferred	Not reported
Pipe Release Detection: Autoleak	No
Pipe Release Detection: Line Tightness	No
Pipe Release Detection: Stat Invent Recon	No
Pipe Release Detection: Groundwater	No
Pipe Release Detection: Int Sec Containment	No
Pipe Release Det: Interior Double Walled	No
Pipe Release Detection: Other Method	No
Pipe Release Detection: Other Note	Not reported
Pipe Type:	UNKNOWN
Pipe Materials: Bare Steel	Yes
Pipe Materials: Galvanized Steel	No
Pipe Materials: Copper	No
Pipe Materials: Fiberglass	No
Pipe Materials: Cath Protect	No
Pipe Materials: Double Walled	No
Pipe Materials: Sec Containment	No
Pipe Materials: Repaired	No
Pipe Materials: Unknown	No
Pipe Materials: Other	No
Pipe Materials: Other Note	Not reported
Facility ID:	4000172
Federally Regulated:	Yes
Tank Number:	R9
Tank Capacity:	4000
Tank Contents:	DIESEL
Tank Status:	REM FROM GRD
Tank Type:	UST
Tank Material:	
Install Date:	01-JAN-1970
Tank Materials: Bare Steel	Yes
Tank Materials: Cath Protect Steel	No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TARMAC READY MIXED CONCRETE PLANT (Continued)

U003682614

Tank Materials: Epoxy Steel	No
Tank Materials: Fiberglass	No
Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Double Walled	No
Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Insulated Tank Jacket	No
Tank Materials: Repaired	No
Tank Materials: Unknown	No
Tank Materials: Other	No
Tank Materials: Other Note	Not reported

Release Detection:

Tank Release Detection: Leak Deferred	No
Tank Release Detection: Manual Gauge	No
Tank Release Detection: Auto Gauge	No
Tank Release Detection: Tank Tightness	No
Tank Release Detection: Vapor Monitor	No
Tank Release Detection: Inventory	No
Tank Release Detection: Stat Invent Recon	No
Tank Release Detection: Spill Install	No
Tank Release Detection: Overfill Install	No
Tank Release Detection: Groundwater	No
Tank Release Detection: Int Sec Containment	No
Tank Release Detection: Int Double Walled	No
Tank Release Detection: Other Method	No
Tank Release Detection: Other Note	Not reported
Pipe Release Detection: Leak Deferred	Not reported
Pipe Release Detection: Autoleak	No
Pipe Release Detection: Line Tightness	No
Pipe Release Detection: Stat Invent Recon	No
Pipe Release Detection: Groundwater	No
Pipe Release Detection: Int Sec Containment	No
Pipe Release Det: Interior Double Walled	No
Pipe Release Detection: Other Method	No
Pipe Release Detection: Other Note	Not reported

Pipe Type:

Pipe Type:	UNKNOWN
Pipe Materials: Bare Steel	Yes
Pipe Materials: Galvanized Steel	No
Pipe Materials: Copper	No
Pipe Materials: Fiberglass	No
Pipe Materials: Cath Protect	No
Pipe Materials: Double Walled	No
Pipe Materials: Sec Containment	No
Pipe Materials: Repaired	No
Pipe Materials: Unknown	No
Pipe Materials: Other	No
Pipe Materials: Other Note	Not reported

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

D19
SSE
< 1/8
0.120 mi.
636 ft.

116 NICHOLSON STREET
116 NICHOLSON ST
RICHMOND, VA 23231

VA LTANKS S117881234
VA AIRS N/A

Site 2 of 5 in cluster D

Relative:
Higher

LTANKS:
Region: PRO
CEDS Facility Id: 200000879970
Case Status: Closed
Pollution Complaint #: 20154423
Reported: 03/16/2015

Actual:
29 ft.

AIRS:

Region: PRO
Region Number: 52528
Contact First Name: Peter
Contact Last Name: Wiens
Contact Phone: 7602947899
Lat Deg/Min/Sec Lon Deg/Min/Sec: Not reported
Mailing Address: 2120 Harmony Grove
Mailing City: Escondido
Mailing State: CA
Mailing Zip Code: 92029
Program Type: NSR
Permit Type: MINOR
Issued Date: 04/08/2015
Operating Status: Not reported
Owner ID: 100000050312
Owner Name: KoochenVagners Brewing Company
Owner Tele: 7602947899

Region: PRO
Region Number: 52528
Contact First Name: Peter
Contact Last Name: Wiens
Contact Phone: 7602947899
Lat Deg/Min/Sec Lon Deg/Min/Sec: Not reported
Mailing Address: 2120 Harmony Grove
Mailing City: Escondido
Mailing State: CA
Mailing Zip Code: 92029
Program Type: NSR
Permit Type: MINOR
Issued Date: 04/08/2015
Operating Status: Not reported
Owner ID: 100000050312
Owner Name: KoochenVagners Brewing Company
Owner Tele: 7602947899

Region: PRO
Region Number: 52528
Contact First Name: Peter
Contact Last Name: Wiens
Contact Phone: 7602947899
Lat Deg/Min/Sec Lon Deg/Min/Sec: Not reported
Mailing Address: 2120 Harmony Grove
Mailing City: Escondido
Mailing State: CA

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

116 NICHOLSON STREET (Continued)

S117881234

Mailing Zip Code: 92029
Program Type: NSR
Permit Type: MINOR
Issued Date: 04/08/2015
Operating Status: Not reported
Owner ID: 10000050312
Owner Name: KoochenVagners Brewing Company
Owner Tele: 7602947899

D20
SSE
< 1/8
0.121 mi.
638 ft.

LONE STAR RICHMOND TRUCK SHOP
111 N NICHOLSON ST
RICHMOND, VA 23223
Site 3 of 5 in cluster D

VA LUST S104519804
VA LTANKS N/A

Relative:
Higher
Actual:
37 ft.

LUST REG PD:
Region: PD
Status: Closed
Pollution Complaint #: 19940384
Reg Code: PRO

LTANKS:
Region: PRO
CEDS Facility Id: 200000176706
Case Status: Closed
Pollution Complaint #: 19940384
Reported: 09/02/1993

D21
SSE
< 1/8
0.121 mi.
638 ft.

TARMAC LONE STAR RICHMOND TRUCK SHOP
111 N NICHOLSON ST
RICHMOND, VA 23223
Site 4 of 5 in cluster D

VA UST U003682613
VA AST N/A

Relative:
Higher
Actual:
37 ft.

Facility:
Facility Id: 4000166
Facility Type: INDUSTRIAL
CEDS Facility ID: 200000176706
Owner:
Owner Id: 34612
Owner Name: Tarmac Mid-Atlantic Inc
Owner Address: 1151 Azalea Garden Rd
Owner Address2: Not reported
Owner City, State, Zip: Norfolk, VA 23502
UST Status: Not reported
AST Status: Not reported

UST:
Facility ID: 4000166
Federally Regulated: Yes

Tank Number: R1
Tank Capacity: 550
Tank Contents: UNKNOWN
Tank Status: REM FROM GRD

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TARMAC LONE STAR RICHMOND TRUCK SHOP (Continued)

U003682613

Tank Type:	UST
Tank Material:	
Install Date:	01-JUN-1984
Tank Materials: Bare Steel	Yes
Tank Materials: Cath Protect Steel	No
Tank Materials: Epoxy Steel	No
Tank Materials: Fiberglass	No
Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Double Walled	No
Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Insulated Tank Jacket	No
Tank Materials: Repaired	No
Tank Materials: Unknown	No
Tank Materials: Other	No
Tank Materials: Other Note	Not reported
Release Detection:	
Tank Release Detection: Leak Deferred	No
Tank Release Detection: Manual Gauge	No
Tank Release Detection: Auto Gauge	No
Tank Release Detection: Tank Tightness	No
Tank Release Detection: Vapor Monitor	No
Tank Release Detection: Inventory	No
Tank Release Detection: Stat Invent Recon	No
Tank Release Detection: Spill Install	No
Tank Release Detection: Overfill Install	No
Tank Release Detection: Groundwater	No
Tank Release Detection: Int Sec Containment	No
Tank Release Detection: Int Double Walled	No
Tank Release Detection: Other Method	No
Tank Release Detection: Other Note	Not reported
Pipe Release Detection: Leak Deferred	Not reported
Pipe Release Detection: Autoleak	No
Pipe Release Detection: Line Tightness	No
Pipe Release Detection: Stat Invent Recon	No
Pipe Release Detection: Groundwater	No
Pipe Release Detection: Int Sec Containment	No
Pipe Release Det: Interior Double Walled	No
Pipe Release Detection: Other Method	No
Pipe Release Detection: Other Note	Not reported
Pipe Type:	PRESSURE
Pipe Materials: Bare Steel	Yes
Pipe Materials: Galvanized Steel	No
Pipe Materials: Copper	No
Pipe Materials: Fiberglass	No
Pipe Materials: Cath Protect	No
Pipe Materials: Double Walled	No
Pipe Materials: Sec Containment	No
Pipe Materials: Repaired	No
Pipe Materials: Unknown	No
Pipe Materials: Other	No
Pipe Materials: Other Note	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TARMAC LONE STAR RICHMOND TRUCK SHOP (Continued)

U003682613

Facility ID:	4000166
Federally Regulated:	Yes
Tank Number:	R2
Tank Capacity:	1000
Tank Contents:	UNKNOWN
Tank Status:	REM FROM GRD
Tank Type:	UST
Tank Material:	
Install Date:	01-JUN-1984
Tank Materials: Bare Steel	Yes
Tank Materials: Cath Protect Steel	No
Tank Materials: Epoxy Steel	No
Tank Materials: Fiberglass	No
Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Double Walled	No
Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Insulated Tank Jacket	No
Tank Materials: Repaired	No
Tank Materials: Unknown	No
Tank Materials: Other	No
Tank Materials: Other Note	Not reported
Release Detection:	
Tank Release Detection: Leak Deferred	No
Tank Release Detection: Manual Gauge	No
Tank Release Detection: Auto Gauge	No
Tank Release Detection: Tank Tightness	No
Tank Release Detection: Vapor Monitor	No
Tank Release Detection: Inventory	No
Tank Release Detection: Stat Invent Recon	No
Tank Release Detection: Spill Install	No
Tank Release Detection: Overfill Install	No
Tank Release Detection: Groundwater	No
Tank Release Detection: Int Sec Containment	No
Tank Release Detection: Int Double Walled	No
Tank Release Detection: Other Method	No
Tank Release Detection: Other Note	Not reported
Pipe Release Detection: Leak Deferred	Not reported
Pipe Release Detection: Autoleak	No
Pipe Release Detection: Line Tightness	No
Pipe Release Detection: Stat Invent Recon	No
Pipe Release Detection: Groundwater	No
Pipe Release Detection: Int Sec Containment	No
Pipe Release Det: Interior Double Walled	No
Pipe Release Detection: Other Method	No
Pipe Release Detection: Other Note	Not reported
Pipe Type:	PRESSURE
Pipe Materials: Bare Steel	Yes
Pipe Materials: Galvanized Steel	No
Pipe Materials: Copper	No
Pipe Materials: Fiberglass	No
Pipe Materials: Cath Protect	No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TARMAC LONE STAR RICHMOND TRUCK SHOP (Continued)

U003682613

Pipe Materials: Double Walled	No
Pipe Materials: Sec Containment	No
Pipe Materials: Repaired	No
Pipe Materials: Unknown	No
Pipe Materials: Other	No
Pipe Materials: Other Note	Not reported
Facility ID:	4000166
Federally Regulated:	Yes
Tank Number:	R3
Tank Capacity:	1000
Tank Contents:	UNKNOWN
Tank Status:	REM FROM GRD
Tank Type:	UST
Tank Material:	
Install Date:	01-JUN-1984
Tank Materials: Bare Steel	Yes
Tank Materials: Cath Protect Steel	No
Tank Materials: Epoxy Steel	No
Tank Materials: Fiberglass	No
Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Double Walled	No
Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Insulated Tank Jacket	No
Tank Materials: Repaired	No
Tank Materials: Unknown	No
Tank Materials: Other	No
Tank Materials: Other Note	Not reported
Release Detection:	
Tank Release Detection: Leak Deferred	No
Tank Release Detection: Manual Gauge	No
Tank Release Detection: Auto Gauge	No
Tank Release Detection: Tank Tightness	No
Tank Release Detection: Vapor Monitor	No
Tank Release Detection: Inventory	No
Tank Release Detection: Stat Invent Recon	No
Tank Release Detection: Spill Install	No
Tank Release Detection: Overfill Install	No
Tank Release Detection: Groundwater	No
Tank Release Detection: Int Sec Containment	No
Tank Release Detection: Int Double Walled	No
Tank Release Detection: Other Method	No
Tank Release Detection: Other Note	Not reported
Pipe Release Detection: Leak Deferred	Not reported
Pipe Release Detection: Autoleak	No
Pipe Release Detection: Line Tightness	No
Pipe Release Detection: Stat Invent Recon	No
Pipe Release Detection: Groundwater	No
Pipe Release Detection: Int Sec Containment	No
Pipe Release Det: Interior Double Walled	No
Pipe Release Detection: Other Method	No

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

TARMAC LONE STAR RICHMOND TRUCK SHOP (Continued)

U003682613

Pipe Release Detection: Other Note	Not reported
Pipe Type:	PRESSURE
Pipe Materials: Bare Steel	Yes
Pipe Materials: Galvanized Steel	No
Pipe Materials: Copper	No
Pipe Materials: Fiberglass	No
Pipe Materials: Cath Protect	No
Pipe Materials: Double Walled	No
Pipe Materials: Sec Containment	No
Pipe Materials: Repaired	No
Pipe Materials: Unknown	No
Pipe Materials: Other	No
Pipe Materials: Other Note	Not reported
Facility ID:	4000166
Federally Regulated:	Yes
Tank Number:	R4
Tank Capacity:	4000
Tank Contents:	USED OIL
Tank Status:	REM FROM GRD
Tank Type:	UST
Tank Material:	
Install Date:	01-JUN-1984
Tank Materials: Bare Steel	Yes
Tank Materials: Cath Protect Steel	No
Tank Materials: Epoxy Steel	No
Tank Materials: Fiberglass	No
Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Double Walled	No
Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Insulated Tank Jacket	No
Tank Materials: Repaired	No
Tank Materials: Unknown	No
Tank Materials: Other	No
Tank Materials: Other Note	Not reported
Release Detection:	
Tank Release Detection: Leak Deferred	No
Tank Release Detection: Manual Gauge	No
Tank Release Detection: Auto Gauge	No
Tank Release Detection: Tank Tightness	No
Tank Release Detection: Vapor Monitor	No
Tank Release Detection: Inventory	No
Tank Release Detection: Stat Invent Recon	No
Tank Release Detection: Spill Install	No
Tank Release Detection: Overfill Install	No
Tank Release Detection: Groundwater	No
Tank Release Detection: Int Sec Containment	No
Tank Release Detection: Int Double Walled	No
Tank Release Detection: Other Method	No
Tank Release Detection: Other Note	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TARMAC LONE STAR RICHMOND TRUCK SHOP (Continued)

U003682613

Pipe Release Detection: Leak Deferred	Not reported
Pipe Release Detection: Autoleak	No
Pipe Release Detection: Line Tightness	No
Pipe Release Detection: Stat Invent Recon	No
Pipe Release Detection: Groundwater	No
Pipe Release Detection: Int Sec Containment	No
Pipe Release Det: Interior Double Walled	No
Pipe Release Detection: Other Method	No
Pipe Release Detection: Other Note	Not reported
Pipe Type:	PRESSURE
Pipe Materials: Bare Steel	Yes
Pipe Materials: Galvanized Steel	No
Pipe Materials: Copper	No
Pipe Materials: Fiberglass	No
Pipe Materials: Cath Protect	No
Pipe Materials: Double Walled	No
Pipe Materials: Sec Containment	No
Pipe Materials: Repaired	No
Pipe Materials: Unknown	No
Pipe Materials: Other	Yes
Pipe Materials: Other Note	ELEC. ISOLATED
Facility ID:	4000166
Federally Regulated:	Yes
Tank Number:	R5
Tank Capacity:	6000
Tank Contents:	GASOLINE
Tank Status:	REM FROM GRD
Tank Type:	UST
Tank Material:	
Install Date:	01-JUN-1984
Tank Materials: Bare Steel	Yes
Tank Materials: Cath Protect Steel	No
Tank Materials: Epoxy Steel	No
Tank Materials: Fiberglass	No
Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Double Walled	No
Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Insulated Tank Jacket	No
Tank Materials: Repaired	No
Tank Materials: Unknown	No
Tank Materials: Other	No
Tank Materials: Other Note	Not reported
Release Detection:	
Tank Release Detection: Leak Deferred	No
Tank Release Detection: Manual Gauge	No
Tank Release Detection: Auto Gauge	No
Tank Release Detection: Tank Tightness	No
Tank Release Detection: Vapor Monitor	No
Tank Release Detection: Inventory	No

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

TARMAC LONE STAR RICHMOND TRUCK SHOP (Continued)

U003682613

Tank Release Detection: Stat Invent Recon	No
Tank Release Detection: Spill Install	No
Tank Release Detection: Overfill Install	No
Tank Release Detection: Groundwater	No
Tank Release Detection: Int Sec Containment	No
Tank Release Detection: Int Double Walled	No
Tank Release Detection: Other Method	No
Tank Release Detection: Other Note	Not reported
Pipe Release Detection: Leak Deferred	Not reported
Pipe Release Detection: Autoleak	No
Pipe Release Detection: Line Tightness	No
Pipe Release Detection: Stat Invent Recon	No
Pipe Release Detection: Groundwater	No
Pipe Release Detection: Int Sec Containment	No
Pipe Release Det: Interior Double Walled	No
Pipe Release Detection: Other Method	No
Pipe Release Detection: Other Note	Not reported
Pipe Type:	PRESSURE
Pipe Materials: Bare Steel	Yes
Pipe Materials: Galvanized Steel	No
Pipe Materials: Copper	No
Pipe Materials: Fiberglass	No
Pipe Materials: Cath Protect	No
Pipe Materials: Double Walled	No
Pipe Materials: Sec Containment	No
Pipe Materials: Repaired	No
Pipe Materials: Unknown	No
Pipe Materials: Other	No
Pipe Materials: Other Note	Not reported
Facility ID:	4000166
Federally Regulated:	Yes
Tank Number:	R6
Tank Capacity:	20000
Tank Contents:	DIESEL
Tank Status:	REM FROM GRD
Tank Type:	UST
Tank Material:	
Install Date:	01-JUN-1984
Tank Materials: Bare Steel	Yes
Tank Materials: Cath Protect Steel	No
Tank Materials: Epoxy Steel	No
Tank Materials: Fiberglass	No
Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Double Walled	No
Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Insulated Tank Jacket	No
Tank Materials: Repaired	No
Tank Materials: Unknown	No
Tank Materials: Other	No
Tank Materials: Other Note	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TARMAC LONE STAR RICHMOND TRUCK SHOP (Continued)

U003682613

Release Detection:

Tank Release Detection: Leak Deferred	No
Tank Release Detection: Manual Gauge	No
Tank Release Detection: Auto Gauge	No
Tank Release Detection: Tank Tightness	No
Tank Release Detection: Vapor Monitor	No
Tank Release Detection: Inventory	No
Tank Release Detection: Stat Invent Recon	No
Tank Release Detection: Spill Install	No
Tank Release Detection: Overfill Install	No
Tank Release Detection: Groundwater	No
Tank Release Detection: Int Sec Containment	No
Tank Release Detection: Int Double Walled	No
Tank Release Detection: Other Method	No
Tank Release Detection: Other Note	Not reported
Pipe Release Detection: Leak Deferred	Not reported
Pipe Release Detection: Autoleak	No
Pipe Release Detection: Line Tightness	No
Pipe Release Detection: Stat Invent Recon	No
Pipe Release Detection: Groundwater	No
Pipe Release Detection: Int Sec Containment	No
Pipe Release Det: Interior Double Walled	No
Pipe Release Detection: Other Method	No
Pipe Release Detection: Other Note	Not reported

Pipe Type:

PRESSURE

Pipe Materials: Bare Steel	Yes
Pipe Materials: Galvanized Steel	No
Pipe Materials: Copper	No
Pipe Materials: Fiberglass	No
Pipe Materials: Cath Protect	No
Pipe Materials: Double Walled	No
Pipe Materials: Sec Containment	No
Pipe Materials: Repaired	No
Pipe Materials: Unknown	No
Pipe Materials: Other	Yes
Pipe Materials: Other Note	ELEC. ISOLATED

Facility ID:

4000166

Federally Regulated:

Yes

Tank Number:

R7

Tank Capacity:

20000

Tank Contents:

DIESEL

Tank Status:

REM FROM GRD

Tank Type:

UST

Tank Material:

Install Date:	01-JUN-1984
Tank Materials: Bare Steel	Yes
Tank Materials: Cath Protect Steel	No
Tank Materials: Epoxy Steel	No
Tank Materials: Fiberglass	No
Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Double Walled	No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TARMAC LONE STAR RICHMOND TRUCK SHOP (Continued)

U003682613

Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Insulated Tank Jacket	No
Tank Materials: Repaired	No
Tank Materials: Unknown	No
Tank Materials: Other	No
Tank Materials: Other Note	Not reported

Release Detection:

Tank Release Detection: Leak Deferred	No
Tank Release Detection: Manual Gauge	No
Tank Release Detection: Auto Gauge	No
Tank Release Detection: Tank Tightness	No
Tank Release Detection: Vapor Monitor	No
Tank Release Detection: Inventory	No
Tank Release Detection: Stat Invent Recon	No
Tank Release Detection: Spill Install	No
Tank Release Detection: Overfill Install	No
Tank Release Detection: Groundwater	No
Tank Release Detection: Int Sec Containment	No
Tank Release Detection: Int Double Walled	No
Tank Release Detection: Other Method	No
Tank Release Detection: Other Note	Not reported
Pipe Release Detection: Leak Deferred	Not reported
Pipe Release Detection: Autoleak	No
Pipe Release Detection: Line Tightness	No
Pipe Release Detection: Stat Invent Recon	No
Pipe Release Detection: Groundwater	No
Pipe Release Detection: Int Sec Containment	No
Pipe Release Det: Interior Double Walled	No
Pipe Release Detection: Other Method	No
Pipe Release Detection: Other Note	Not reported

Pipe Type:	PRESSURE
Pipe Materials: Bare Steel	Yes
Pipe Materials: Galvanized Steel	No
Pipe Materials: Copper	No
Pipe Materials: Fiberglass	No
Pipe Materials: Cath Protect	No
Pipe Materials: Double Walled	No
Pipe Materials: Sec Containment	No
Pipe Materials: Repaired	No
Pipe Materials: Unknown	No
Pipe Materials: Other	Yes
Pipe Materials: Other Note	ELEC. ISOLATED

Facility ID:	4000166
Federally Regulated:	Yes

Tank Number:	R8
Tank Capacity:	15000
Tank Contents:	DIESEL
Tank Status:	REM FROM GRD
Tank Type:	UST

Tank Material:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TARMAC LONE STAR RICHMOND TRUCK SHOP (Continued)

U003682613

Install Date:	01-JUN-1984
Tank Materials: Bare Steel	Yes
Tank Materials: Cath Protect Steel	No
Tank Materials: Epoxy Steel	No
Tank Materials: Fiberglass	No
Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Double Walled	No
Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Insulated Tank Jacket	No
Tank Materials: Repaired	No
Tank Materials: Unknown	No
Tank Materials: Other	No
Tank Materials: Other Note	Not reported

Release Detection:

Tank Release Detection: Leak Deferred	No
Tank Release Detection: Manual Gauge	No
Tank Release Detection: Auto Gauge	No
Tank Release Detection: Tank Tightness	No
Tank Release Detection: Vapor Monitor	No
Tank Release Detection: Inventory	No
Tank Release Detection: Stat Invent Recon	No
Tank Release Detection: Spill Install	No
Tank Release Detection: Overfill Install	No
Tank Release Detection: Groundwater	No
Tank Release Detection: Int Sec Containment	No
Tank Release Detection: Int Double Walled	No
Tank Release Detection: Other Method	No
Tank Release Detection: Other Note	Not reported
Pipe Release Detection: Leak Deferred	Not reported
Pipe Release Detection: Autoleak	No
Pipe Release Detection: Line Tightness	No
Pipe Release Detection: Stat Invent Recon	No
Pipe Release Detection: Groundwater	No
Pipe Release Detection: Int Sec Containment	No
Pipe Release Det: Interior Double Walled	No
Pipe Release Detection: Other Method	No
Pipe Release Detection: Other Note	Not reported

Pipe Type:

Pipe Type:	PRESSURE
Pipe Materials: Bare Steel	Yes
Pipe Materials: Galvanized Steel	No
Pipe Materials: Copper	No
Pipe Materials: Fiberglass	No
Pipe Materials: Cath Protect	No
Pipe Materials: Double Walled	No
Pipe Materials: Sec Containment	No
Pipe Materials: Repaired	No
Pipe Materials: Unknown	No
Pipe Materials: Other	Yes
Pipe Materials: Other Note	ELEC. ISOLATED

AST:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TARMAC LONE STAR RICHMOND TRUCK SHOP (Continued)

U003682613

Facility ID: 4000166
Facility Type: INDUSTRIAL
CEDS Facility ID: 200000176706

Tank Info:

Owner:

Owner Id: 34612
Owner Name: Tarmac Mid-Atlantic Inc
Owner Address: 1151 Azalea Garden Rd
Owner Address2: Not reported
Owner City/State/Zip: Norfolk, VA 23502
UST Status: Not reported
AST Status: Not reported

Fed Regulated: No
Tank Number: 1
Tank Type: AST
Tank Capacity: 1000
Tank Contents: LUBE OIL
Tank Status: CURR IN USE

Tank Containment:

Install Date: 01-JUN-1989
Containment: Curbing No
Containment: Weirs No
Containment: Sorbent Yes
Containment: Culvert No
Containment: Diversion No
Containment: Retention No
Containment: Dike No
Containment: Unknown No
Containment: Other No
Containment: Other Note Not reported

Release Detection:

Release Detection: Ground Water No
Release Detection: Visual Yes
Release Detection: Vapor No
Release Detection: Interstitial No
Release Detection: None No
Release Detection: Other No
Release Detection: Other Note Not reported
Release Prevention: Double Bottom No
Release Prevention: Double Walled No
Release Prevention: Lined Interior No
Release Prevention: Poly Jacket No
Release Prevention: Exc Liner No
Release Prevention: None No
Release Prevention: Unknown No
Release Prevention: Other No
Release Prevention: Other Note Not reported

Tank Foundation: Steel Yes
Tank Foundation: Earthen No
Tank Foundation: Concrete Imp No
Tank Foundation: Unknown No
Tank Foundation: Other No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TARMAC LONE STAR RICHMOND TRUCK SHOP (Continued)

U003682613

Tank Foundation: Other Note	Not reported
Tank Roof: Float	No
Tank Roof: Cone	No
Tank Roof: Breather	No
Tank Roof: Dbldeck	No
Tank Roof: Pontoon	No
Tank Roof: Balloon	No
Tank Roof: Lifter	No
Tank Roof: Pan	No
Tank Roof: Other	Yes
Tank Roof: Other Note	Not reported

Tank Material:

Tank Materials: Bare Steel	Yes
Tank Materials: Cath Protect Steel	No
Tank Materials: Fiberglass	No
Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Insulated Tank Jacket	No
Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Epoxy Coated Interior	No
Tank Materials: Epoxy Coated Exterior	No
Tank Materials: Double Walled	No
Tank Materials: Double Bottomed	No
Tank Materials: Unknown	No
Tank Materials: Other	No
Tank Materials: Other Note	Not reported

Owner:

Owner Id:	34612
Owner Name:	Tarmac Mid-Atlantic Inc
Owner Address:	1151 Azalea Garden Rd
Owner Address2:	Not reported
Owner City/State/Zip:	Norfolk, VA 23502
UST Status:	Not reported
AST Status:	Not reported

Fed Regulated:	No
Tank Number:	5
Tank Type:	AST
Tank Capacity:	2000
Tank Contents:	GASOLINE
Tank Status:	CURR IN USE

Tank Containment:

Install Date:	01-JUN-1992
Containment: Curbing	No
Containment: Weirs	No
Containment: Sorbent	No
Containment: Culvert	No
Containment: Diversion	No
Containment: Retention	No
Containment: Dike	Yes
Containment: Unknown	No

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

TARMAC LONE STAR RICHMOND TRUCK SHOP (Continued)

U003682613

Containment: Other	No
Containment: Other Note	Not reported
Release Detection:	
Release Detection: Ground Water	No
Release Detection: Visual	Yes
Release Detection: Vapor	No
Release Detection: Interstitial	No
Release Detection: None	No
Release Detection: Other	No
Release Detection: Other Note	Not reported
Release Prevention: Double Bottom	No
Release Prevention: Double Walled	No
Release Prevention: Lined Interior	No
Release Prevention: Poly Jacket	No
Release Prevention: Exc Liner	No
Release Prevention: None	No
Release Prevention: Unknown	No
Release Prevention: Other	Yes
Release Prevention: Other Note	Not reported
Tank Foundation: Steel	Yes
Tank Foundation: Earthen	No
Tank Foundation: Concrete Imp	No
Tank Foundation: Unknown	No
Tank Foundation: Other	No
Tank Foundation: Other Note	Not reported
Tank Roof: Float	No
Tank Roof: Cone	No
Tank Roof: Breather	No
Tank Roof: Dbldck	No
Tank Roof: Pontoon	No
Tank Roof: Balloon	No
Tank Roof: Lifter	No
Tank Roof: Pan	No
Tank Roof: Other	Yes
Tank Roof: Other Note	Not reported
Tank Material:	
Tank Materials: Bare Steel	Yes
Tank Materials: Cath Protect Steel	No
Tank Materials: Fiberglass	No
Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Insulated Tank Jacket	No
Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Epoxy Coated Interior	No
Tank Materials: Epoxy Coated Exterior	No
Tank Materials: Double Walled	No
Tank Materials: Double Bottomed	No
Tank Materials: Unknown	No
Tank Materials: Other	No
Tank Materials: Other Note	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

D22
SSE
< 1/8
0.121 mi.
639 ft.

TITAN VA READY-MIX, LLC
111 NICHOLSON ST
RICHMOND, VA 23231

RCRA NonGen / NLR 1000198726
FINDS VAD981738164

Site 5 of 5 in cluster D

Relative:
Higher

RCRA NonGen / NLR:

Date form received by agency: 10/16/2014
Facility name: Not reported
Facility address: 111 NICHOLSON ST
RICHMOND, VA 23231
EPA ID: VAD981738164
Mailing address: PO BOX 2016
NORFOLK, VA 23501
Contact: CLIFFORD BOCCHLCCHLO
Contact address: PO BOX 2016
NORFOLK, VA 23501
Contact country: US
Contact telephone: (757) 493-2119
Contact email: Not reported
EPA Region: Not reported
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Actual:
32 ft.

Owner/Operator Summary:

Owner/operator name: TITAN VA READY-MIX, LLC
Owner/operator address: PO BOX 2016
NORFOLK, VA 23501
Owner/operator country: Not reported
Owner/operator telephone: (757) 858-6500
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 10/03/2000
Owner/Op end date: Not reported

Owner/operator name: OPERNAME
Owner/operator address: OPERSTREET
OPERCITY, AK 99999
Owner/operator country: Not reported
Owner/operator telephone: (215) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
Used oil refiner: No
Used oil fuel marketer to burner: No

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

TITAN VA READY-MIX, LLC (Continued)

1000198726

Used oil Specification marketer: No
 Used oil transfer facility: No
 Used oil transporter: No

Historical Generators:

Date form received by agency: 12/01/2000
 Site name: TITAN VA READY-MIX, LLC
 Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D000
 . Waste name: Not Defined

. Waste code: D001
 . Waste name: IGNITABLE WASTE

Date form received by agency: 12/30/1986
 Site name: TITAN VA READY-MIX, LLC
 Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110008188120

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

E23
 South
 1/8-1/4
 0.129 mi.
 681 ft.

OPMS MGR
 4401 E MAIN ST
 RICHMOND, VA
 Site 1 of 5 in cluster E

EDR US Hist Auto Stat 1009086932
 N/A

Relative:
Higher

Actual:
 23 ft.

EDR Historical Auto Stations:
 Name: OPMS MGR
 Year: 1996
 Type: GASOLINE STATIONS

E24
 South
 1/8-1/4
 0.130 mi.
 686 ft.

OSCAR S CROWN SERVICE STATION
 4400 E MAIN ST
 RICHMOND, VA
 Site 2 of 5 in cluster E

EDR US Hist Auto Stat 1009089265
 N/A

Relative:
Higher

Actual:
 23 ft.

EDR Historical Auto Stations:
 Name: OSCAR S CROWN SERVICE STATION
 Year: 1963
 Type: GASOLINE STATIONS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

OSCAR S CROWN SERVICE STATION (Continued)

1009089265

Name: WHITE S CROWN SERV STA
Year: 1968
Type: GASOLINE STATIONS

Name: WHITE S CROWN SERVICE STATION
Year: 1968
Type: SERVICE STATIONS

E25
South
1/8-1/4
0.130 mi.
686 ft.

CROWN TERMINAL FORMER
4400 E MAIN ST
RICHMOND, VA 23231

VA LUST **S105840936**
VA LTANKS **N/A**
VA SPILLS

Site 3 of 5 in cluster E

Relative:
Higher

LUST REG PD:
Region: PD
Status: Closed
Pollution Complaint #: 20034469
Reg Code: PRO

Actual:
23 ft.

LTANKS:
Region: PRO
CEDS Facility Id: 200000210602
Case Status: Closed
Pollution Complaint #: 20034469
Reported: 04/23/2003

SPILLS:

Fips City/County: Richmond City
Status: Not reported
Reference Id: Not reported
IR Number: 2003-P-0374
Associated IR: Not reported
Incident Date: 02/24/2003
Call Received Date: 02/24/2003
Closure Comments: See Site Summary for details
Threat To: Not reported
Terrorism (Y/N): NO
Characterize Incident: Not reported
Incident Type: Water,Petroleum
Incident Subtype: Water,Petroleum
Materials: Not reported
Effect To Receptor: Not reported
Water Body: Not reported
Low Quantity To Water: Not reported
High Quantity To Water: Not reported
Quantity Units: Not reported
Other Receptors: Not reported
RP Company: Crown
RP Name: Not reported
Property Owner: Not reported
Property Company: Not reported
Duration Of Event (Hrs): Not reported
Impacts: Not reported
Other Impacts: Not reported
Steps Taken: Not reported
Steps Taken Description: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

CROWN TERMINAL FORMER (Continued)

S105840936

System Components: Not reported
 Other System Components: Not reported
 Cause Of Event: Not reported
 Corrective Action Taken: Not reported
 Weather Status: Not reported
 Precipitation (Wet): Not reported
 Discharge Type: Not reported
 Discharge Volume: Not reported
 Unknown Discharge (Y/N): NO
 Site Name: CROWN TERMINAL
 Closure Date: 02/27/2003
 Orig. Call Incident Description: An UST discovered at building owned by Crown and across street from their terminal. Due to flooding the tank is leaking product out of vent tube.
 Original Call Material Description: Not reported
 Original Call Location Description: Crown Terminal-4400 E Main Street-Richmond-VA-23219-Richmond City
 Incident Ongoing at time of Call: Not reported
 Agencies Notified (Y/N): NO
 Other Agencies: Not reported
 Permitted (Y/N): YES
 Call Reported By Company Name: John Poling/NRC
 Call RP Company Name: Crown
 Call RP Name: Not reported
 Call Property Owner Company Name: Not reported
 Call Property Owner Name: Not reported
 Site Summary: Richmond HazMat on scene; Clean Harbors also on scene. F.D. was trying to plug vent. Capacity suspected as being 200 gallons; unsure. Co. removed tank & cleaned up residual oil

E26
South
1/8-1/4
0.132 mi.
696 ft.

4405 E MAIN ST
RICHMOND, VA 23231
Site 4 of 5 in cluster E

CERC-NFRAP 1000448303
RCRA NonGen / NLR VAD003136736
FINDS
VA UST
VA AST
VA Financial Assurance

Relative:
Higher

CERC-NFRAP:
 Site ID: 0302531
 Federal Facility: Not a Federal Facility
 NPL Status: Not on the NPL
 Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

Actual:
24 ft.

CERCLIS-NFRAP Assessment History:

Action: DISCOVERY
 Date Started: / /
 Date Completed: 06/01/81
 Priority Level: Not reported

Action: ARCHIVE SITE
 Date Started: / /
 Date Completed: 03/01/84
 Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
 Date Started: / /
 Date Completed: 03/01/84
 Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

1000448303

RCRA NonGen / NLR:
Date form received by agency: 10/07/2013
Facility name: Not reported
Facility address: 4405 E MAIN ST
RICHMOND, VA 23231
EPA ID: VAD003136736
Mailing address: E MAIN ST
RICHMOND, VA 23231
Contact: JOHN FUNK
Contact address: 4405 E MAIN ST
RICHMOND, VA 23231
Contact country: US
Contact telephone: (410) 987-3694
Contact email: Not reported
EPA Region: Not reported
Land type: Private
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: CROWN CENTRAL PETROLEUM CORP
Owner/operator address: 8227 CLOVERLEAF DR SUITE 304
MILLERSVILLE, MD 21108
Owner/operator country: Not reported
Owner/operator telephone: (410) 987-3694
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 10/04/2002
Owner/Op end date: Not reported

Owner/operator name: OPERNAME
Owner/operator address: OPERSTREET
OPERCITY,
Owner/operator country: Not reported
Owner/operator telephone: (215) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: OPERNAME
Owner/operator address: OPERSTREET
OPERCITY, AK 99999
Owner/operator country: Not reported
Owner/operator telephone: (215) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

1000448303

Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
Used oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:

Date form received by agency: 02/25/2004
Site name: CROWN CENTRAL PETROLEUM CORP
Classification: Not a generator, verified

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D018
. Waste name: BENZENE

Date form received by agency: 10/04/2002
Site name: CROWN CENTRAL PETROLEUM CORP
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D018
. Waste name: BENZENE

Date form received by agency: 08/15/2002
Site name: CROWN CENTRAL PETROLEUM CORP.
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D018
. Waste name: BENZENE

Date form received by agency: 03/15/2001
Site name: CRWON CENTRAL PETROLEUM CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 07/01/1998
Site name: CROWN CENTRAL PETROLEUM CORP RICHMOND
Classification: Large Quantity Generator

Date form received by agency: 02/09/1996
Site name: CROWN CENTRAL PETROLEUM CORP
Classification: Large Quantity Generator

Date form received by agency: 02/04/1994
Site name: CROWN CENTRAL PETROLEUM CORP
Classification: Large Quantity Generator

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

1000448303

Date form received by agency: 02/24/1992
Site name: CROWN CENTRAL PETROLEUM CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 08/08/1980
Site name: CROWN CENTRAL PETROLEUM CORP
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:

Regulation violated: SR - 40 cfr 265.16(A)(3)
Area of violation: Generators - Pre-transport
Date violation determined: 05/11/2000
Date achieved compliance: 07/28/2001
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 40 cfr 262 appendix
Area of violation: Generators - Manifest
Date violation determined: 05/11/2000
Date achieved compliance: 07/28/2001
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 40 cfr 265.52(A)(2)
Area of violation: Generators - Pre-transport
Date violation determined: 05/11/2000
Date achieved compliance: 05/19/2000
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 40 cfr 265.16(A)(2)
Area of violation: Generators - Pre-transport
Date violation determined: 05/11/2000
Date achieved compliance: 07/28/2001
Violation lead agency: State
Enforcement action: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

1000448303

Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 40 cfr 265.16(A)(1)
Area of violation: Generators - Pre-transport
Date violation determined: 05/11/2000
Date achieved compliance: 07/28/2001
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 9.1.G.4.a
Area of violation: Generators - Records/Reporting
Date violation determined: 11/04/1992
Date achieved compliance: 10/22/1996
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/03/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - VHWMR 9.3.c; 10.3.B,D-F
Area of violation: Generators - Records/Reporting
Date violation determined: 11/04/1992
Date achieved compliance: 10/22/1996
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/03/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 9.1.G.4.b
Area of violation: Generators - Records/Reporting
Date violation determined: 11/04/1992
Date achieved compliance: 10/22/1996
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/03/1992

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

1000448303

Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - VHWMR 9.1.G.3
Area of violation: Generators - General
Date violation determined: 11/04/1992
Date achieved compliance: 10/22/1996
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/03/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - VHWMR 6.4.E.1.d
Area of violation: Generators - Records/Reporting
Date violation determined: 11/04/1992
Date achieved compliance: 10/22/1996
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/03/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - VHWMR 9.1.G.4.d
Area of violation: Generators - Records/Reporting
Date violation determined: 11/04/1992
Date achieved compliance: 10/22/1996
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/03/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - VHWMR 9.3.F
Area of violation: Generators - Records/Reporting
Date violation determined: 11/04/1992
Date achieved compliance: 10/22/1996
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/03/1992
Enf. disposition status: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

1000448303

Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - VHWMR 9.1.G.4.C
Area of violation: Generators - Records/Reporting
Date violation determined: 11/04/1992
Date achieved compliance: 10/22/1996
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/03/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - VHWMR 9.1.G.1
Area of violation: Generators - General
Date violation determined: 11/04/1992
Date achieved compliance: 10/22/1996
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/03/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 05/11/2000
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 07/28/2001
Evaluation lead agency: State

Evaluation date: 05/11/2000
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 05/19/2000
Evaluation lead agency: State

Evaluation date: 05/11/2000
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Manifest
Date achieved compliance: 07/28/2001
Evaluation lead agency: State

Evaluation date: 11/13/1998
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

1000448303

Evaluation lead agency: State

Evaluation date: 10/22/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 10/22/1996
Evaluation lead agency: State

Evaluation date: 10/22/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Records/Reporting
Date achieved compliance: 10/22/1996
Evaluation lead agency: State

Evaluation date: 11/04/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Records/Reporting
Date achieved compliance: 10/22/1996
Evaluation lead agency: State

Evaluation date: 11/04/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 10/22/1996
Evaluation lead agency: State

FINDS:

Registry ID: 110000883438

Environmental Interest/Information System

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

CEEDS (Virginia - Comprehensive Environmental Data System) is the Department of Environmental Quality's (DEQ) electronic data system for maintaining databases on sources of pollutants in all media.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZARDOUS WASTE BIENNIAL REPORTER

AIR MINOR

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

1000448303

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

SPCC

Facility:

Facility Id: 4001652
Facility Type: PETROLEUM DISTRIBUTOR
CEDs Facility ID: 200000087863

Owner:

Owner Id: 29550
Owner Name: Crown Central LLC
Owner Address: 1 N Charles St
Owner Address2: Not reported
Owner City, State, Zip: Baltimore, MD 21201
UST Status: Not reported
AST Status: Reg

UST:

Facility ID: 4001652
Federally Regulated: Yes

Tank Number: R2
Tank Capacity: 275
Tank Contents: OTHER
Tank Status: REM FROM GRD
Tank Type: UST

Tank Material:

Install Date: 27-MAR-1961
Tank Materials: Bare Steel Yes
Tank Materials: Cath Protect Steel No
Tank Materials: Epoxy Steel No
Tank Materials: Fiberglass No
Tank Materials: Concrete No
Tank Materials: Composite No
Tank Materials: Double Walled No
Tank Materials: Lined Interior No
Tank Materials: Excav Liner No
Tank Materials: Insulated Tank Jacket No
Tank Materials: Repaired No
Tank Materials: Unknown No
Tank Materials: Other No

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

(Continued)

1000448303

Tank Materials: Other Note	Not reported
Release Detection:	
Tank Release Detection: Leak Deferred	No
Tank Release Detection: Manual Gauge	No
Tank Release Detection: Auto Gauge	No
Tank Release Detection: Tank Tightness	No
Tank Release Detection: Vapor Monitor	No
Tank Release Detection: Inventory	No
Tank Release Detection: Stat Invent Recon	No
Tank Release Detection: Spill Install	No
Tank Release Detection: Overfill Install	No
Tank Release Detection: Groundwater	No
Tank Release Detection: Int Sec Containment	No
Tank Release Detection: Int Double Walled	No
Tank Release Detection: Other Method	No
Tank Release Detection: Other Note	Not reported
Pipe Release Detection: Leak Deferred	Not reported
Pipe Release Detection: Autoleak	No
Pipe Release Detection: Line Tightness	No
Pipe Release Detection: Stat Invent Recon	No
Pipe Release Detection: Groundwater	No
Pipe Release Detection: Int Sec Containment	No
Pipe Release Det: Interior Double Walled	No
Pipe Release Detection: Other Method	No
Pipe Release Detection: Other Note	Not reported
Pipe Type:	
Pipe Materials: Bare Steel	UNKNOWN
Pipe Materials: Galvanized Steel	No
Pipe Materials: Copper	Yes
Pipe Materials: Fiberglass	No
Pipe Materials: Cath Protect	No
Pipe Materials: Double Walled	No
Pipe Materials: Sec Containment	No
Pipe Materials: Repaired	No
Pipe Materials: Unknown	No
Pipe Materials: Other	No
Pipe Materials: Other Note	Not reported
Facility ID: 4001652	
Federally Regulated: Yes	
Tank Number: R4	
Tank Capacity: 3000	
Tank Contents: HAZARDOUS	
Tank Status: REM FROM GRD	
Tank Type: UST	
Tank Material:	
Install Date: 01-JUL-1985	
Tank Materials: Bare Steel	No
Tank Materials: Cath Protect Steel	No
Tank Materials: Epoxy Steel	No
Tank Materials: Fiberglass	No
Tank Materials: Concrete	No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

1000448303

Tank Materials: Composite	Yes
Tank Materials: Double Walled	No
Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Insulated Tank Jacket	No
Tank Materials: Repaired	No
Tank Materials: Unknown	No
Tank Materials: Other	No
Tank Materials: Other Note	Not reported

Release Detection:

Tank Release Detection: Leak Deferred	No
Tank Release Detection: Manual Gauge	No
Tank Release Detection: Auto Gauge	No
Tank Release Detection: Tank Tightness	Yes
Tank Release Detection: Vapor Monitor	No
Tank Release Detection: Inventory	No
Tank Release Detection: Stat Invent Recon	No
Tank Release Detection: Spill Install	No
Tank Release Detection: Overfill Install	No
Tank Release Detection: Groundwater	No
Tank Release Detection: Int Sec Containment	No
Tank Release Detection: Int Double Walled	No
Tank Release Detection: Other Method	No
Tank Release Detection: Other Note	Not reported
Pipe Release Detection: Leak Deferred	Not reported
Pipe Release Detection: Autoleak	No
Pipe Release Detection: Line Tightness	Yes
Pipe Release Detection: Stat Invent Recon	No
Pipe Release Detection: Groundwater	No
Pipe Release Detection: Int Sec Containment	No
Pipe Release Det: Interior Double Walled	No
Pipe Release Detection: Other Method	No
Pipe Release Detection: Other Note	Not reported

Pipe Type:

VALVE: SUCTION

Pipe Materials: Bare Steel	No
Pipe Materials: Galvanized Steel	Yes
Pipe Materials: Copper	No
Pipe Materials: Fiberglass	No
Pipe Materials: Cath Protect	No
Pipe Materials: Double Walled	No
Pipe Materials: Sec Containment	No
Pipe Materials: Repaired	No
Pipe Materials: Unknown	No
Pipe Materials: Other	No
Pipe Materials: Other Note	Not reported

AST:

Facility ID:	4001652
Facility Type:	PETROLEUM DISTRIBUTOR
CEDS Facility ID:	200000087863

Tank Info:

Owner:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

1000448303

Owner Id:	29550
Owner Name:	Crown Central LLC
Owner Address:	1 N Charles St
Owner Address2:	Not reported
Owner City/State/Zip:	Baltimore, MD 21201
UST Status:	Not reported
AST Status:	Reg
Fed Regulated:	No
Tank Number:	21
Tank Type:	AST
Tank Capacity:	861000
Tank Contents:	GASOLINE
Tank Status:	DISMANTLED
Tank Containment:	
Install Date:	01-JAN-1969
Containment: Curbing	No
Containment: Weirs	No
Containment: Sorbent	No
Containment: Culvert	No
Containment: Diversion	No
Containment: Retention	No
Containment: Dike	Yes
Containment: Unknown	No
Containment: Other	No
Containment: Other Note	Not reported
Release Detection:	
Release Detection: Ground Water	Yes
Release Detection: Visual	Yes
Release Detection: Vapor	No
Release Detection: Interstitial	No
Release Detection: None	No
Release Detection: Other	No
Release Detection: Other Note	Not reported
Release Prevention: Double Bottom	No
Release Prevention: Double Walled	No
Release Prevention: Lined Interior	No
Release Prevention: Poly Jacket	No
Release Prevention: Exc Liner	No
Release Prevention: None	Yes
Release Prevention: Unknown	No
Release Prevention: Other	No
Release Prevention: Other Note	Not reported
Tank Foundation: Steel	No
Tank Foundation: Earthen	Yes
Tank Foundation: Concrete Imp	No
Tank Foundation: Unknown	No
Tank Foundation: Other	No
Tank Foundation: Other Note	Not reported
Tank Roof: Float	No
Tank Roof: Cone	No
Tank Roof: Breather	Yes
Tank Roof: Dbldck	No
Tank Roof: Pontoon	No

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

1000448303

Tank Roof: Balloon No
Tank Roof: Lifter No
Tank Roof: Pan No
Tank Roof: Other No
Tank Roof: Other Note Not reported

Tank Material:

Tank Materials: Bare Steel Yes
Tank Materials: Cath Protect Steel Yes
Tank Materials: Fiberglass No
Tank Materials: Concrete No
Tank Materials: Composite No
Tank Materials: Insulated Tank Jacket No
Tank Materials: Lined Interior No
Tank Materials: Excav Liner No
Tank Materials: Epoxy Coated Interior No
Tank Materials: Epoxy Coated Exterior No
Tank Materials: Double Walled No
Tank Materials: Double Bottomed No
Tank Materials: Unknown No
Tank Materials: Other No
Tank Materials: Other Note Not reported

Owner:

Owner Id: 29550
Owner Name: Crown Central LLC
Owner Address: 1 N Charles St
Owner Address2: Not reported
Owner City/State/Zip: Baltimore, MD 21201
UST Status: Not reported
AST Status: Reg

Fed Regulated: No
Tank Number: 22
Tank Type: AST
Tank Capacity: 861000
Tank Contents: DIESEL
Tank Status: DISMANTLED

Tank Containment:

Install Date: 01-JAN-1969
Containment: Curbing No
Containment: Weirs No
Containment: Sorbent No
Containment: Culvert No
Containment: Diversion No
Containment: Retention No
Containment: Dike Yes
Containment: Unknown No
Containment: Other No
Containment: Other Note Not reported

Release Detection:

Release Detection: Ground Water Yes
Release Detection: Visual Yes

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

1000448303

Release Detection: Vapor	No
Release Detection: Interstitial	No
Release Detection: None	No
Release Detection: Other	No
Release Detection: Other Note	Not reported
Release Prevention: Double Bottom	No
Release Prevention: Double Walled	No
Release Prevention: Lined Interior	No
Release Prevention: Poly Jacket	No
Release Prevention: Exc Liner	No
Release Prevention: None	Yes
Release Prevention: Unknown	No
Release Prevention: Other	No
Release Prevention: Other Note	Not reported

Tank Foundation: Steel	No
Tank Foundation: Earthen	Yes
Tank Foundation: Concrete Imp	No
Tank Foundation: Unknown	No
Tank Foundation: Other	No
Tank Foundation: Other Note	Not reported
Tank Roof: Float	Yes
Tank Roof: Cone	No
Tank Roof: Breather	No
Tank Roof: Dbldck	No
Tank Roof: Pontoon	No
Tank Roof: Balloon	No
Tank Roof: Lifter	No
Tank Roof: Pan	No
Tank Roof: Other	No
Tank Roof: Other Note	Not reported

Tank Material:

Tank Materials: Bare Steel	Yes
Tank Materials: Cath Protect Steel	Yes
Tank Materials: Fiberglass	No
Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Insulated Tank Jacket	No
Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Epoxy Coated Interior	No
Tank Materials: Epoxy Coated Exterior	No
Tank Materials: Double Walled	No
Tank Materials: Double Bottomed	No
Tank Materials: Unknown	No
Tank Materials: Other	No
Tank Materials: Other Note	Not reported

Owner:

Owner Id:	29550
Owner Name:	Crown Central LLC
Owner Address:	1 N Charles St
Owner Address2:	Not reported
Owner City/State/Zip:	Baltimore, MD 21201

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

1000448303

UST Status:	Not reported
AST Status:	Reg
Fed Regulated:	No
Tank Number:	23
Tank Type:	AST
Tank Capacity:	877800
Tank Contents:	DIESEL
Tank Status:	DISMANTLED
Tank Containment:	
Install Date:	01-JAN-1969
Containment: Curbing	No
Containment: Weirs	No
Containment: Sorbent	No
Containment: Culvert	No
Containment: Diversion	No
Containment: Retention	No
Containment: Dike	Yes
Containment: Unknown	No
Containment: Other	No
Containment: Other Note	Not reported
Release Detection:	
Release Detection: Ground Water	Yes
Release Detection: Visual	Yes
Release Detection: Vapor	No
Release Detection: Interstitial	No
Release Detection: None	No
Release Detection: Other	No
Release Detection: Other Note	Not reported
Release Prevention: Double Bottom	No
Release Prevention: Double Walled	No
Release Prevention: Lined Interior	No
Release Prevention: Poly Jacket	No
Release Prevention: Exc Liner	No
Release Prevention: None	Yes
Release Prevention: Unknown	No
Release Prevention: Other	No
Release Prevention: Other Note	Not reported
Tank Foundation: Steel	No
Tank Foundation: Earthen	Yes
Tank Foundation: Concrete Imp	No
Tank Foundation: Unknown	No
Tank Foundation: Other	No
Tank Foundation: Other Note	Not reported
Tank Roof: Float	Yes
Tank Roof: Cone	No
Tank Roof: Breather	No
Tank Roof: Dbldck	No
Tank Roof: Pontoon	No
Tank Roof: Balloon	No
Tank Roof: Lifter	No
Tank Roof: Pan	No
Tank Roof: Other	No
Tank Roof: Other Note	Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

1000448303

Tank Material:

Tank Materials: Bare Steel	Yes
Tank Materials: Cath Protect Steel	Yes
Tank Materials: Fiberglass	No
Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Insulated Tank Jacket	No
Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Epoxy Coated Interior	No
Tank Materials: Epoxy Coated Exterior	No
Tank Materials: Double Walled	No
Tank Materials: Double Bottomed	No
Tank Materials: Unknown	No
Tank Materials: Other	No
Tank Materials: Other Note	Not reported

Owner:

Owner Id:	29550
Owner Name:	Crown Central LLC
Owner Address:	1 N Charles St
Owner Address2:	Not reported
Owner City/State/Zip:	Baltimore, MD 21201
UST Status:	Not reported
AST Status:	Reg

Fed Regulated:	No
Tank Number:	24
Tank Type:	AST
Tank Capacity:	449400
Tank Contents:	GASOLINE
Tank Status:	DISMANTLED

Tank Containment:

Install Date:	01-JAN-1969
Containment: Curbing	No
Containment: Weirs	No
Containment: Sorbent	No
Containment: Culvert	No
Containment: Diversion	No
Containment: Retention	No
Containment: Dike	Yes
Containment: Unknown	No
Containment: Other	No
Containment: Other Note	Not reported

Release Detection:

Release Detection: Ground Water	Yes
Release Detection: Visual	Yes
Release Detection: Vapor	No
Release Detection: Interstitial	No
Release Detection: None	No
Release Detection: Other	No
Release Detection: Other Note	Not reported
Release Prevention: Double Bottom	No

Map ID
Direction
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

1000448303

Release Prevention: Double Walled No
Release Prevention: Lined Interior No
Release Prevention: Poly Jacket No
Release Prevention: Exc Liner No
Release Prevention: None Yes
Release Prevention: Unknown No
Release Prevention: Other No
Release Prevention: Other Note Not reported

Tank Foundation: Steel No
Tank Foundation: Earthen Yes
Tank Foundation: Concrete Imp No
Tank Foundation: Unknown No
Tank Foundation: Other No
Tank Foundation: Other Note Not reported
Tank Roof: Float Yes
Tank Roof: Cone No
Tank Roof: Breather No
Tank Roof: Dbldck No
Tank Roof: Pontoon No
Tank Roof: Balloon No
Tank Roof: Lifter No
Tank Roof: Pan No
Tank Roof: Other No
Tank Roof: Other Note Not reported

Tank Material:

Tank Materials: Bare Steel Yes
Tank Materials: Cath Protect Steel Yes
Tank Materials: Fiberglass No
Tank Materials: Concrete No
Tank Materials: Composite No
Tank Materials: Insulated Tank Jacket No
Tank Materials: Lined Interior No
Tank Materials: Excav Liner No
Tank Materials: Epoxy Coated Interior No
Tank Materials: Epoxy Coated Exterior No
Tank Materials: Double Walled No
Tank Materials: Double Bottomed No
Tank Materials: Unknown No
Tank Materials: Other No
Tank Materials: Other Note Not reported

Owner:

Owner Id: 29550
Owner Name: Crown Central LLC
Owner Address: 1 N Charles St
Owner Address2: Not reported
Owner City/State/Zip: Baltimore, MD 21201
UST Status: Not reported
AST Status: Reg

Fed Regulated: No
Tank Number: 25
Tank Type: AST

Map ID
 Direction
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 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

(Continued)

1000448303

Tank Capacity:	1386000
Tank Contents:	GASOLINE
Tank Status:	DISMANTLED
Tank Containment:	
Install Date:	01-JAN-1969
Containment: Curbing	No
Containment: Weirs	No
Containment: Sorbent	No
Containment: Culvert	No
Containment: Diversion	No
Containment: Retention	No
Containment: Dike	Yes
Containment: Unknown	No
Containment: Other	No
Containment: Other Note	Not reported
Release Detection:	
Release Detection: Ground Water	Yes
Release Detection: Visual	Yes
Release Detection: Vapor	No
Release Detection: Interstitial	No
Release Detection: None	No
Release Detection: Other	No
Release Detection: Other Note	Not reported
Release Prevention: Double Bottom	No
Release Prevention: Double Walled	No
Release Prevention: Lined Interior	No
Release Prevention: Poly Jacket	No
Release Prevention: Exc Liner	No
Release Prevention: None	Yes
Release Prevention: Unknown	No
Release Prevention: Other	No
Release Prevention: Other Note	Not reported
Tank Foundation: Steel	No
Tank Foundation: Earthen	Yes
Tank Foundation: Concrete Imp	No
Tank Foundation: Unknown	No
Tank Foundation: Other	No
Tank Foundation: Other Note	Not reported
Tank Roof: Float	Yes
Tank Roof: Cone	No
Tank Roof: Breather	No
Tank Roof: Dbldeck	No
Tank Roof: Pontoon	No
Tank Roof: Balloon	No
Tank Roof: Lifter	No
Tank Roof: Pan	No
Tank Roof: Other	No
Tank Roof: Other Note	Not reported
Tank Material:	
Tank Materials: Bare Steel	Yes
Tank Materials: Cath Protect Steel	Yes
Tank Materials: Fiberglass	No
Tank Materials: Concrete	No

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

1000448303

Tank Materials: Composite No
Tank Materials: Insulated Tank Jacket No
Tank Materials: Lined Interior No
Tank Materials: Excav Liner No
Tank Materials: Epoxy Coated Interior No
Tank Materials: Epoxy Coated Exterior No
Tank Materials: Double Walled No
Tank Materials: Double Bottomed No
Tank Materials: Unknown No
Tank Materials: Other No
Tank Materials: Other Note Not reported

Owner:

Owner Id: 29550
Owner Name: Crown Central LLC
Owner Address: 1 N Charles St
Owner Address2: Not reported
Owner City/State/Zip: Baltimore, MD 21201
UST Status: Not reported
AST Status: Reg

Fed Regulated: No
Tank Number: A
Tank Type: AST
Tank Capacity: 8000
Tank Contents: OTHER
Tank Status: DISMANTLED

Tank Containment:

Install Date: 01-JAN-1994
Containment: Curbing No
Containment: Weirs No
Containment: Sorbent No
Containment: Culvert No
Containment: Diversion No
Containment: Retention No
Containment: Dike Yes
Containment: Unknown No
Containment: Other No
Containment: Other Note Not reported

Release Detection:

Release Detection: Ground Water Yes
Release Detection: Visual Yes
Release Detection: Vapor No
Release Detection: Interstitial No
Release Detection: None No
Release Detection: Other No
Release Detection: Other Note Not reported
Release Prevention: Double Bottom No
Release Prevention: Double Walled No
Release Prevention: Lined Interior No
Release Prevention: Poly Jacket No
Release Prevention: Exc Liner No
Release Prevention: None Yes
Release Prevention: Unknown No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

1000448303

Release Prevention: Other No
Release Prevention: Other Note Not reported

Tank Foundation: Steel Yes
Tank Foundation: Earthen No
Tank Foundation: Concrete Imp No
Tank Foundation: Unknown No
Tank Foundation: Other No
Tank Foundation: Other Note Not reported
Tank Roof: Float No
Tank Roof: Cone No
Tank Roof: Breather Yes
Tank Roof: Dbldck No
Tank Roof: Pontoon No
Tank Roof: Balloon No
Tank Roof: Lifter No
Tank Roof: Pan No
Tank Roof: Other No
Tank Roof: Other Note Not reported

Tank Material:

Tank Materials: Bare Steel Yes
Tank Materials: Cath Protect Steel No
Tank Materials: Fiberglass No
Tank Materials: Concrete No
Tank Materials: Composite No
Tank Materials: Insulated Tank Jacket No
Tank Materials: Lined Interior No
Tank Materials: Excav Liner No
Tank Materials: Epoxy Coated Interior No
Tank Materials: Epoxy Coated Exterior No
Tank Materials: Double Walled No
Tank Materials: Double Bottomed No
Tank Materials: Unknown No
Tank Materials: Other No
Tank Materials: Other Note Not reported

Owner:

Owner Id: 29550
Owner Name: Crown Central LLC
Owner Address: 1 N Charles St
Owner Address2: Not reported
Owner City/State/Zip: Baltimore, MD 21201
UST Status: Not reported
AST Status: Reg

Fed Regulated: No
Tank Number: B
Tank Type: AST
Tank Capacity: 8000
Tank Contents: OTHER
Tank Status: DISMANTLED

Tank Containment:

Install Date: 01-JAN-1992

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

1000448303

Containment: Curbing	No
Containment: Weirs	No
Containment: Sorbent	No
Containment: Culvert	No
Containment: Diversion	No
Containment: Retention	No
Containment: Dike	Yes
Containment: Unknown	No
Containment: Other	No
Containment: Other Note	Not reported
Release Detection:	
Release Detection: Ground Water	Yes
Release Detection: Visual	Yes
Release Detection: Vapor	No
Release Detection: Interstitial	No
Release Detection: None	No
Release Detection: Other	No
Release Detection: Other Note	Not reported
Release Prevention: Double Bottom	No
Release Prevention: Double Walled	No
Release Prevention: Lined Interior	No
Release Prevention: Poly Jacket	No
Release Prevention: Exc Liner	No
Release Prevention: None	Yes
Release Prevention: Unknown	No
Release Prevention: Other	No
Release Prevention: Other Note	Not reported
Tank Foundation:	
Tank Foundation: Steel	Yes
Tank Foundation: Earthen	No
Tank Foundation: Concrete Imp	No
Tank Foundation: Unknown	No
Tank Foundation: Other	No
Tank Foundation: Other Note	Not reported
Tank Roof:	
Tank Roof: Float	No
Tank Roof: Cone	No
Tank Roof: Breather	Yes
Tank Roof: Dbldeck	No
Tank Roof: Pontoon	No
Tank Roof: Balloon	No
Tank Roof: Lifter	No
Tank Roof: Pan	No
Tank Roof: Other	No
Tank Roof: Other Note	Not reported
Tank Material:	
Tank Materials: Bare Steel	Yes
Tank Materials: Cath Protect Steel	No
Tank Materials: Fiberglass	No
Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Insulated Tank Jacket	No
Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Epoxy Coated Interior	No
Tank Materials: Epoxy Coated Exterior	No

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

1000448303

Tank Materials: Double Walled No
Tank Materials: Double Bottomed No
Tank Materials: Unknown No
Tank Materials: Other No
Tank Materials: Other Note Not reported

Owner:

Owner Id: 29550
Owner Name: Crown Central LLC
Owner Address: 1 N Charles St
Owner Address2: Not reported
Owner City/State/Zip: Baltimore, MD 21201
UST Status: Not reported
AST Status: Reg

Fed Regulated: No
Tank Number: C
Tank Type: AST
Tank Capacity: 800
Tank Contents: GASOLINE
Tank Status: DISMANTLED

Tank Containment:

Install Date: Not reported
Containment: Curbing No
Containment: Weirs No
Containment: Sorbent No
Containment: Culvert No
Containment: Diversion No
Containment: Retention No
Containment: Dike Yes
Containment: Unknown No
Containment: Other No
Containment: Other Note Not reported

Release Detection:

Release Detection: Ground Water Yes
Release Detection: Visual Yes
Release Detection: Vapor No
Release Detection: Interstitial No
Release Detection: None No
Release Detection: Other No
Release Detection: Other Note Not reported
Release Prevention: Double Bottom No
Release Prevention: Double Walled No
Release Prevention: Lined Interior No
Release Prevention: Poly Jacket No
Release Prevention: Exc Liner No
Release Prevention: None Yes
Release Prevention: Unknown No
Release Prevention: Other No
Release Prevention: Other Note Not reported

Tank Foundation: Steel Yes
Tank Foundation: Earthen No
Tank Foundation: Concrete Imp No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

1000448303

Tank Foundation: Unknown	No
Tank Foundation: Other	No
Tank Foundation: Other Note	Not reported
Tank Roof: Float	No
Tank Roof: Cone	No
Tank Roof: Breather	Yes
Tank Roof: Dbldck	No
Tank Roof: Pontoon	No
Tank Roof: Balloon	No
Tank Roof: Lifter	No
Tank Roof: Pan	No
Tank Roof: Other	No
Tank Roof: Other Note	Not reported

Tank Material:

Tank Materials: Bare Steel	Yes
Tank Materials: Cath Protect Steel	No
Tank Materials: Fiberglass	No
Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Insulated Tank Jacket	No
Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Epoxy Coated Interior	No
Tank Materials: Epoxy Coated Exterior	No
Tank Materials: Double Walled	No
Tank Materials: Double Bottomed	No
Tank Materials: Unknown	No
Tank Materials: Other	No
Tank Materials: Other Note	Not reported

VA Financial Assurance 1:

Facility ID:	4001652
FRP Financial Assurance:	Min
Owner Name:	Crown Central Richmond Terminal
ROF Own Id:	29550
Tank Type:	UST
Mechanism:	Insurance
Gallonage:	Not reported
Per Occurrence:	\$1,000,000.00
Third Party:	\$1,000,000.00
Annual Aggregate:	\$2,000,000.00
In Compliance:	Not reported
Total Capacity:	Not reported
CEDS Facility Name:	Crown Central Petroleum - Richmond Terminal
CEDS Facility Id:	200000087863
Tank Type Count:	20
Location:	4405 E Main St

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
E27 South 1/8-1/4 0.132 mi. 696 ft.	CROWN RICHMOND TERMINAL 4405 E MAIN ST RICHMOND, VA 23231 Site 5 of 5 in cluster E	VA LUST VA LTANKS	U003682874 N/A
Relative: Higher	LUST REG PD: Region: PD Status: Closed		
Actual: 24 ft.	Pollution Complaint #: 19940866 Reg Code: PRO Region: PD Status: Closed Pollution Complaint #: 19900531 Reg Code: PRO		
	LTANKS: Region: PRO CEDS Facility Id: 200000087863 Case Status: Closed Pollution Complaint #: 19940866 Reported: 11/12/1993 Region: PRO CEDS Facility Id: 200000087863 Case Status: Closed Pollution Complaint #: 19900531 Reported: 08/19/1988		
28 NW 1/8-1/4 0.140 mi. 737 ft.	2909 WILLIAMSBURG AVE RICHMOND, VA 23223	EDR US Hist Cleaners	1015035580 N/A
Relative: Higher	EDR Historical Cleaners: Name: EAST TOWNE CLEANERS LLC Year: 2011		
Actual: 44 ft.	Address: 2909 WILLIAMSBURG AVE Name: EAST TOWNE CLEANERS LLC Year: 2012 Address: 2909 WILLIAMSBURG AVE		
F29 NW 1/8-1/4 0.243 mi. 1283 ft.	EAST COAST (FORMER) 2801 E MAIN ST RICHMOND, VA 23223 Site 1 of 3 in cluster F	VA UST	U003688651 N/A
Relative: Higher	Facility: Facility Id: 4027811 Facility Type: GAS STATION		
Actual: 73 ft.	CEDS Facility ID: 200000158324 Owner: Owner Id: 37008		

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EAST COAST (FORMER) (Continued)

U003688651

Owner Name:	CARL STOUDEMIRE
Owner Address:	2414 ABERDEEN ROAD
Owner Address2:	Not reported
Owner City, State, Zip:	RICHMOND, VA 23237
UST Status:	Un-Reg
AST Status:	Not reported
UST:	
Facility ID:	4027811
Federally Regulated:	Yes
Tank Number: R1	
Tank Capacity:	Not reported
Tank Contents:	GASOLINE
Tank Status:	REM FROM GRD
Tank Type:	UST
Tank Material:	
Install Date:	Not reported
Tank Materials: Bare Steel	No
Tank Materials: Cath Protect Steel	No
Tank Materials: Epoxy Steel	No
Tank Materials: Fiberglass	No
Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Double Walled	No
Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Insulated Tank Jacket	No
Tank Materials: Repaired	No
Tank Materials: Unknown	No
Tank Materials: Other	No
Tank Materials: Other Note	Not reported
Release Detection:	
Tank Release Detection: Leak Deferred	No
Tank Release Detection: Manual Gauge	No
Tank Release Detection: Auto Gauge	No
Tank Release Detection: Tank Tightness	No
Tank Release Detection: Vapor Monitor	No
Tank Release Detection: Inventory	No
Tank Release Detection: Stat Invent Recon	No
Tank Release Detection: Spill Install	No
Tank Release Detection: Overfill Install	No
Tank Release Detection: Groundwater	No
Tank Release Detection: Int Sec Containment	No
Tank Release Detection: Int Double Walled	No
Tank Release Detection: Other Method	No
Tank Release Detection: Other Note	Not reported
Pipe Release Detection: Leak Deferred	Not reported
Pipe Release Detection: Autoleak	No
Pipe Release Detection: Line Tightness	No
Pipe Release Detection: Stat Invent Recon	No
Pipe Release Detection: Groundwater	No
Pipe Release Detection: Int Sec Containment	No
Pipe Release Det: Interior Double Walled	No
Pipe Release Detection: Other Method	No

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EAST COAST (FORMER) (Continued)

U003688651

Pipe Release Detection: Other Note	Not reported
Pipe Type:	UNKNOWN
Pipe Materials: Bare Steel	No
Pipe Materials: Galvanized Steel	No
Pipe Materials: Copper	No
Pipe Materials: Fiberglass	No
Pipe Materials: Cath Protect	No
Pipe Materials: Double Walled	No
Pipe Materials: Sec Containment	No
Pipe Materials: Repaired	No
Pipe Materials: Unknown	No
Pipe Materials: Other	No
Pipe Materials: Other Note	Not reported
Facility ID:	4027811
Federally Regulated:	Yes
Tank Number:	R2
Tank Capacity:	Not reported
Tank Contents:	GASOLINE
Tank Status:	REM FROM GRD
Tank Type:	UST
Tank Material:	
Install Date:	Not reported
Tank Materials: Bare Steel	No
Tank Materials: Cath Protect Steel	No
Tank Materials: Epoxy Steel	No
Tank Materials: Fiberglass	No
Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Double Walled	No
Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Insulated Tank Jacket	No
Tank Materials: Repaired	No
Tank Materials: Unknown	No
Tank Materials: Other	No
Tank Materials: Other Note	Not reported
Release Detection:	
Tank Release Detection: Leak Deferred	No
Tank Release Detection: Manual Gauge	No
Tank Release Detection: Auto Gauge	No
Tank Release Detection: Tank Tightness	No
Tank Release Detection: Vapor Monitor	No
Tank Release Detection: Inventory	No
Tank Release Detection: Stat Invent Recon	No
Tank Release Detection: Spill Install	No
Tank Release Detection: Overfill Install	No
Tank Release Detection: Groundwater	No
Tank Release Detection: Int Sec Containment	No
Tank Release Detection: Int Double Walled	No
Tank Release Detection: Other Method	No
Tank Release Detection: Other Note	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EAST COAST (FORMER) (Continued)

U003688651

Pipe Release Detection: Leak Deferred	Not reported
Pipe Release Detection: Autoleak	No
Pipe Release Detection: Line Tightness	No
Pipe Release Detection: Stat Invent Recon	No
Pipe Release Detection: Groundwater	No
Pipe Release Detection: Int Sec Containment	No
Pipe Release Det: Interior Double Walled	No
Pipe Release Detection: Other Method	No
Pipe Release Detection: Other Note	Not reported
Pipe Type:	UNKNOWN
Pipe Materials: Bare Steel	No
Pipe Materials: Galvanized Steel	No
Pipe Materials: Copper	No
Pipe Materials: Fiberglass	No
Pipe Materials: Cath Protect	No
Pipe Materials: Double Walled	No
Pipe Materials: Sec Containment	No
Pipe Materials: Repaired	No
Pipe Materials: Unknown	No
Pipe Materials: Other	No
Pipe Materials: Other Note	Not reported
Facility ID:	4027811
Federally Regulated:	Yes
Tank Number:	R3
Tank Capacity:	Not reported
Tank Contents:	GASOLINE
Tank Status:	REM FROM GRD
Tank Type:	UST
Tank Material:	
Install Date:	Not reported
Tank Materials: Bare Steel	No
Tank Materials: Cath Protect Steel	No
Tank Materials: Epoxy Steel	No
Tank Materials: Fiberglass	No
Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Double Walled	No
Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Insulated Tank Jacket	No
Tank Materials: Repaired	No
Tank Materials: Unknown	No
Tank Materials: Other	No
Tank Materials: Other Note	Not reported
Release Detection:	
Tank Release Detection: Leak Deferred	No
Tank Release Detection: Manual Gauge	No
Tank Release Detection: Auto Gauge	No
Tank Release Detection: Tank Tightness	No
Tank Release Detection: Vapor Monitor	No
Tank Release Detection: Inventory	No

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

EAST COAST (FORMER) (Continued)

U003688651

Tank Release Detection: Stat Invent Recon	No
Tank Release Detection: Spill Install	No
Tank Release Detection: Overfill Install	No
Tank Release Detection: Groundwater	No
Tank Release Detection: Int Sec Containment	No
Tank Release Detection: Int Double Walled	No
Tank Release Detection: Other Method	No
Tank Release Detection: Other Note	Not reported
Pipe Release Detection: Leak Deferred	Not reported
Pipe Release Detection: Autoleak	No
Pipe Release Detection: Line Tightness	No
Pipe Release Detection: Stat Invent Recon	No
Pipe Release Detection: Groundwater	No
Pipe Release Detection: Int Sec Containment	No
Pipe Release Det: Interior Double Walled	No
Pipe Release Detection: Other Method	No
Pipe Release Detection: Other Note	Not reported
Pipe Type:	Not reported
Pipe Materials: Bare Steel	No
Pipe Materials: Galvanized Steel	No
Pipe Materials: Copper	No
Pipe Materials: Fiberglass	No
Pipe Materials: Cath Protect	No
Pipe Materials: Double Walled	No
Pipe Materials: Sec Containment	No
Pipe Materials: Repaired	No
Pipe Materials: Unknown	No
Pipe Materials: Other	No
Pipe Materials: Other Note	Not reported
Facility ID:	4027811
Federally Regulated:	Yes
Tank Number:	R4
Tank Capacity:	Not reported
Tank Contents:	KEROSENE
Tank Status:	REM FROM GRD
Tank Type:	UST
Tank Material:	
Install Date:	Not reported
Tank Materials: Bare Steel	No
Tank Materials: Cath Protect Steel	No
Tank Materials: Epoxy Steel	No
Tank Materials: Fiberglass	No
Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Double Walled	No
Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Insulated Tank Jacket	No
Tank Materials: Repaired	No
Tank Materials: Unknown	No
Tank Materials: Other	No
Tank Materials: Other Note	Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

EAST COAST (FORMER) (Continued)

U003688651

Release Detection:

Tank Release Detection: Leak Deferred	No
Tank Release Detection: Manual Gauge	No
Tank Release Detection: Auto Gauge	No
Tank Release Detection: Tank Tightness	No
Tank Release Detection: Vapor Monitor	No
Tank Release Detection: Inventory	No
Tank Release Detection: Stat Invent Recon	No
Tank Release Detection: Spill Install	No
Tank Release Detection: Overfill Install	No
Tank Release Detection: Groundwater	No
Tank Release Detection: Int Sec Containment	No
Tank Release Detection: Int Double Walled	No
Tank Release Detection: Other Method	No
Tank Release Detection: Other Note	Not reported
Pipe Release Detection: Leak Deferred	Not reported
Pipe Release Detection: Autoleak	No
Pipe Release Detection: Line Tightness	No
Pipe Release Detection: Stat Invent Recon	No
Pipe Release Detection: Groundwater	No
Pipe Release Detection: Int Sec Containment	No
Pipe Release Det: Interior Double Walled	No
Pipe Release Detection: Other Method	No
Pipe Release Detection: Other Note	Not reported

Pipe Type: Not reported

Pipe Materials: Bare Steel	No
Pipe Materials: Galvanized Steel	No
Pipe Materials: Copper	No
Pipe Materials: Fiberglass	No
Pipe Materials: Cath Protect	No
Pipe Materials: Double Walled	No
Pipe Materials: Sec Containment	No
Pipe Materials: Repaired	No
Pipe Materials: Unknown	No
Pipe Materials: Other	No
Pipe Materials: Other Note	Not reported

**F30
 NW
 1/8-1/4
 0.243 mi.
 1283 ft.**

**EAST COAST FORMER
 2801 E MAIN ST
 RICHMOND, VA 23223
 Site 2 of 3 in cluster F**

**VA LUST S104898813
 VA LTANKS N/A**

**Relative:
 Higher**

LUST REG PD:
 Region: PD
Status: Closed
 Pollution Complaint #: 19974056
 Reg Code: PRO

**Actual:
 73 ft.**

LTANKS:
 Region: PRO
 CEDS Facility Id: 200000158324
Case Status: Closed
 Pollution Complaint #: 19974056
 Reported: 08/20/1996

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

LUCKY STRIKE POWER PLANT (Continued)

S108936862

Case Status: Closed
 Pollution Complaint #: 20084187
 Reported: 09/27/2007

34
NW
 1/4-1/2
 0.296 mi.
 1564 ft.

KAYO
2708 E MAIN ST
RICHMOND, VA 23223

VA LUST **U003698802**
VA LTANKS **N/A**
VA UST

Relative:
Higher

LUST REG PD:
 Region: PD
Status: **Closed**
 Pollution Complaint #: 19974157
 Reg Code: PRO

Actual:
82 ft.

LTANKS:
 Region: PRO
 CEDS Facility Id: 200000156135
Case Status: **Closed**
 Pollution Complaint #: 19974157
 Reported: 01/08/1997

Facility:

Facility Id: 4013620
 Facility Type: GAS STATION
 CEDS Facility ID: 200000156135

Owner:

Owner Id: 30258
 Owner Name: KAYO OIL COMPANY
 Owner Address: FLOOR MO ROOM 3048
 Owner Address2: Not reported
 Owner City, State, Zip: HOUSTON, TX 77210
 UST Status: Reg
 AST Status: Not reported

UST:

Facility ID: 4013620
 Federally Regulated: Yes

Tank Number: R1
 Tank Capacity: 10000
 Tank Contents: GASOLINE
Tank Status: **REM FROM GRD**
 Tank Type: UST

Tank Material:

Install Date: 06-MAY-1983
 Tank Materials: Bare Steel No
 Tank Materials: Cath Protect Steel No
 Tank Materials: Epoxy Steel No
 Tank Materials: Fiberglass Yes
 Tank Materials: Concrete No
 Tank Materials: Composite No
 Tank Materials: Double Walled No
 Tank Materials: Lined Interior No

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

KAYO (Continued)

U003698802

Tank Materials: Excav Liner	No
Tank Materials: Insulated Tank Jacket	No
Tank Materials: Repaired	No
Tank Materials: Unknown	No
Tank Materials: Other	No
Tank Materials: Other Note	Not reported

Release Detection:

Tank Release Detection: Leak Deferred	No
Tank Release Detection: Manual Gauge	No
Tank Release Detection: Auto Gauge	No
Tank Release Detection: Tank Tightness	No
Tank Release Detection: Vapor Monitor	No
Tank Release Detection: Inventory	No
Tank Release Detection: Stat Invent Recon	No
Tank Release Detection: Spill Install	No
Tank Release Detection: Overfill Install	No
Tank Release Detection: Groundwater	No
Tank Release Detection: Int Sec Containment	No
Tank Release Detection: Int Double Walled	No
Tank Release Detection: Other Method	No
Tank Release Detection: Other Note	Not reported
Pipe Release Detection: Leak Deferred	Not reported
Pipe Release Detection: Autoleak	No
Pipe Release Detection: Line Tightness	No
Pipe Release Detection: Stat Invent Recon	No
Pipe Release Detection: Groundwater	No
Pipe Release Detection: Int Sec Containment	No
Pipe Release Det: Interior Double Walled	No
Pipe Release Detection: Other Method	No
Pipe Release Detection: Other Note	Not reported

Pipe Type:

Pipe Materials: Bare Steel	No
Pipe Materials: Galvanized Steel	No
Pipe Materials: Copper	No
Pipe Materials: Fiberglass	Yes
Pipe Materials: Cath Protect	No
Pipe Materials: Double Walled	No
Pipe Materials: Sec Containment	No
Pipe Materials: Repaired	No
Pipe Materials: Unknown	No
Pipe Materials: Other	No
Pipe Materials: Other Note	Not reported

Facility ID:	4013620
Federally Regulated:	Yes

Tank Number:	R2
Tank Capacity:	10000
Tank Contents:	GASOLINE
Tank Status:	REM FROM GRD
Tank Type:	UST

Tank Material:	
Install Date:	06-MAY-1983

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

KAYO (Continued)

U003698802

Tank Materials: Bare Steel	No
Tank Materials: Cath Protect Steel	No
Tank Materials: Epoxy Steel	No
Tank Materials: Fiberglass	Yes
Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Double Walled	No
Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Insulated Tank Jacket	No
Tank Materials: Repaired	No
Tank Materials: Unknown	No
Tank Materials: Other	No
Tank Materials: Other Note	Not reported

Release Detection:

Tank Release Detection: Leak Deferred	No
Tank Release Detection: Manual Gauge	No
Tank Release Detection: Auto Gauge	No
Tank Release Detection: Tank Tightness	No
Tank Release Detection: Vapor Monitor	No
Tank Release Detection: Inventory	No
Tank Release Detection: Stat Invent Recon	No
Tank Release Detection: Spill Install	No
Tank Release Detection: Overfill Install	No
Tank Release Detection: Groundwater	No
Tank Release Detection: Int Sec Containment	No
Tank Release Detection: Int Double Walled	No
Tank Release Detection: Other Method	No
Tank Release Detection: Other Note	Not reported
Pipe Release Detection: Leak Deferred	Not reported
Pipe Release Detection: Autoleak	No
Pipe Release Detection: Line Tightness	No
Pipe Release Detection: Stat Invent Recon	No
Pipe Release Detection: Groundwater	No
Pipe Release Detection: Int Sec Containment	No
Pipe Release Det: Interior Double Walled	No
Pipe Release Detection: Other Method	No
Pipe Release Detection: Other Note	Not reported

Pipe Type:

PRESSURE

Pipe Materials: Bare Steel	No
Pipe Materials: Galvanized Steel	No
Pipe Materials: Copper	No
Pipe Materials: Fiberglass	Yes
Pipe Materials: Cath Protect	No
Pipe Materials: Double Walled	No
Pipe Materials: Sec Containment	No
Pipe Materials: Repaired	No
Pipe Materials: Unknown	No
Pipe Materials: Other	No
Pipe Materials: Other Note	Not reported

Facility ID:	4013620
Federally Regulated:	Yes

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KAYO (Continued)

U003698802

Tank Number:	R3
Tank Capacity:	10000
Tank Contents:	GASOLINE
Tank Status:	REM FROM GRD
Tank Type:	UST
Tank Material:	
Install Date:	06-MAY-1983
Tank Materials: Bare Steel	No
Tank Materials: Cath Protect Steel	No
Tank Materials: Epoxy Steel	No
Tank Materials: Fiberglass	Yes
Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Double Walled	No
Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Insulated Tank Jacket	No
Tank Materials: Repaired	No
Tank Materials: Unknown	No
Tank Materials: Other	No
Tank Materials: Other Note	Not reported
Release Detection:	
Tank Release Detection: Leak Deferred	No
Tank Release Detection: Manual Gauge	No
Tank Release Detection: Auto Gauge	No
Tank Release Detection: Tank Tightness	No
Tank Release Detection: Vapor Monitor	No
Tank Release Detection: Inventory	No
Tank Release Detection: Stat Invent Recon	No
Tank Release Detection: Spill Install	No
Tank Release Detection: Overfill Install	No
Tank Release Detection: Groundwater	No
Tank Release Detection: Int Sec Containment	No
Tank Release Detection: Int Double Walled	No
Tank Release Detection: Other Method	No
Tank Release Detection: Other Note	Not reported
Pipe Release Detection: Leak Deferred	Not reported
Pipe Release Detection: Autoleak	No
Pipe Release Detection: Line Tightness	No
Pipe Release Detection: Stat Invent Recon	No
Pipe Release Detection: Groundwater	No
Pipe Release Detection: Int Sec Containment	No
Pipe Release Det: Interior Double Walled	No
Pipe Release Detection: Other Method	No
Pipe Release Detection: Other Note	Not reported
Pipe Type:	
Pipe Materials: Bare Steel	No
Pipe Materials: Galvanized Steel	No
Pipe Materials: Copper	No
Pipe Materials: Fiberglass	Yes
Pipe Materials: Cath Protect	No
Pipe Materials: Double Walled	No
Pipe Materials: Sec Containment	No
Pipe Materials: Repaired	No

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

KAYO (Continued)

U003698802

Pipe Materials: Unknown	No
Pipe Materials: Other	No
Pipe Materials: Other Note	Not reported
Facility ID:	4013620
Federally Regulated:	Yes
Tank Number:	R4
Tank Capacity:	10000
Tank Contents:	GASOLINE
Tank Status:	REM FROM GRD
Tank Type:	UST
Tank Material:	
Install Date:	06-MAY-1983
Tank Materials: Bare Steel	No
Tank Materials: Cath Protect Steel	No
Tank Materials: Epoxy Steel	No
Tank Materials: Fiberglass	Yes
Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Double Walled	No
Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Insulated Tank Jacket	No
Tank Materials: Repaired	No
Tank Materials: Unknown	No
Tank Materials: Other	No
Tank Materials: Other Note	Not reported
Release Detection:	
Tank Release Detection: Leak Deferred	No
Tank Release Detection: Manual Gauge	No
Tank Release Detection: Auto Gauge	No
Tank Release Detection: Tank Tightness	No
Tank Release Detection: Vapor Monitor	No
Tank Release Detection: Inventory	No
Tank Release Detection: Stat Invent Recon	No
Tank Release Detection: Spill Install	No
Tank Release Detection: Overfill Install	No
Tank Release Detection: Groundwater	No
Tank Release Detection: Int Sec Containment	No
Tank Release Detection: Int Double Walled	No
Tank Release Detection: Other Method	No
Tank Release Detection: Other Note	Not reported
Pipe Release Detection: Leak Deferred	Not reported
Pipe Release Detection: Autoleak	No
Pipe Release Detection: Line Tightness	No
Pipe Release Detection: Stat Invent Recon	No
Pipe Release Detection: Groundwater	No
Pipe Release Detection: Int Sec Containment	No
Pipe Release Det: Interior Double Walled	No
Pipe Release Detection: Other Method	No
Pipe Release Detection: Other Note	Not reported
Pipe Type:	PRESSURE

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

KAYO (Continued)

U003698802

Pipe Materials: Bare Steel	No
Pipe Materials: Galvanized Steel	No
Pipe Materials: Copper	No
Pipe Materials: Fiberglass	Yes
Pipe Materials: Cath Protect	No
Pipe Materials: Double Walled	No
Pipe Materials: Sec Containment	No
Pipe Materials: Repaired	No
Pipe Materials: Unknown	No
Pipe Materials: Other	No
Pipe Materials: Other Note	Not reported

35
WSW
1/4-1/2
0.322 mi.
1701 ft.

ALLISON AND ADDISON SITE
1300 BRANDER STREET
RICHMOND, VA 23224

VA VCP S110609847
N/A

Relative:
Higher

VRP:

Actual:
18 ft.

Facility ID:	VRP00565
Site Status:	Enrolled in Program
Site Status 2:	Await RP Action
DEQ Region:	Piedmont
Sizs in Acres:	10.5000
Site Type:	Industry
Corrective Action Desc:	Not reported
Owner Name:	City of Richmond
Owner Contact:	Chris Beschler, Deputy Chief Admin Officer
Owner Address:	730 E. Broad Street, 6th floor, Richmond, VA 23219
Owner Phone:	804-646-5200
Operator Name:	Not reported
Operator Owner:	Not reported
Operator Phone:	Not reported
Participant Name:	Robert Jackmore
Relationship to Site:	Not reported
Participant Contact:	Steve Schmidt 703-846-1005
Participant Phone:	703-846-6032
Participant Title:	Superfund Area Manager
Participant Affiliation:	Exxon Mobil Corporation
Participant Address:	3225 Gallows Road (Rm 8B-0217)
Participant City,St,Zip:	Fairfax, VA 22037
Additional Parts:	Not reported
Participation Notes:	8-13-10 Submitted to PRO and Hazwaste
Participant Rep/Contractor:	Corie Chwalek
Participant Rep/Contractor Phone:	919-415-2286
Participant Rep/Contractor Title:	Not reported
Participant Rep/Contractor Affiliation:	Arcadis
Participant Rep/Contractor Address:	11000 Regency Parkway, West tower, suite 205
Participant Rep/Contractor City,St,Zip:	Cary, NC 27518-8518
Metal Contaminants Present in Soil:	Not reported
Organic Contaminants Present in Soil:	Not reported
Metal Contaminants Present in GW:	Not reported
Organic Contaminants Present GW:	Not reported
DEQ Staff Case Manager's Initials:	CME
Cleanup Standards:	Not reported
No Further VRP Action Date:	Not reported
Date Participant Notified of NFA:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ALLISON AND ADDISON SITE (Continued)

S110609847

Certification Date: Not reported
Deed Received Date: Not reported
Terms of NFA Determination: Not reported
Date VRP Eligibility Declared by Participant: 08/10/2010
Date VRP Eligibility Determined by DEQ Region: 08/26/2010
Dt Office Of Waste Permitting Verified Site Eligblty: 09/07/2010
Date VRP Eligibility Determined by VRP: 09/08/2010
Date Signed Agreement Submitted By Participant: Not reported
Date Agreement Executed by DEQ: Not reported
Registration Fee Amount Submitted by Participant: 5000
Date Registration Fee Submitted by Participant: 09/27/2010
Site Characterization Document Number: Not reported
DEQ Concurrence with Site Characterization Date: Not reported
Remedial Action Work Plan Document Number: Not reported
DEQ Concurs with Remedial Action Work Plan Date: Not reported
Completion Report Document Number: Not reported
DEQ Concurs with Completion Report Date: Not reported
Submittal Date for Document Number 1: 09/27/2010
Title of Submitted Document Number 1: SCR WP
Submittal Date for Document Number 2: Not reported
Title of Submitted Document Number 2: Not reported
Submittal Date for Document Number 3: Not reported
Title of Submitted Document Number 3: Not reported
Submittal Date for Document Number 4: Not reported
Title of Submitted Document Number 4: Not reported
Submittal Date for Document Number 5: Not reported
Title of Submitted Document Number 5: Not reported
Submittal Date for Document Number 6: Not reported
Title of Submitted Document Number 6: Not reported
Submittal Date for Document Number 7: Not reported
Title of Submitted Document Number 7: Not reported
Submittal Date for Document Number 8: Not reported
Title of Submitted Document Number 8: Not reported
DEQ Response Incident ID Number: Not reported
EPA CERCLIS ID: Not reported
EPA RCRA ID NUMBER: Not reported
DEQ Pollution Complaint Number: Not reported
Latest Action Relative To Site: Site visit during investigation
Latest Action Relative To Site Date: 10/19/2010
Next VRP Step Needed Relating To Site: Not reported
Pending Since: Not reported
Date Next Step Should Be Completed: Not reported
Lat/Long: 0 / 0
Brownfield Tax Incentive: Not reported
Ground Water Use Restriction: False
Res. User Restriction: False
Excavation Restriction: False
Unrestricted: False
Other Condition of Issuance: False
GPS Lat: 37.520600000000002
GPS Long: -77.419700000000006
GPS Desc: Not reported
Notes: 1/30/12 - SCR & RAWP comments sent

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

G36
NW
1/4-1/2
0.333 mi.
1756 ft.

AMERICAN TOBACCO CO
2620 E CARY ST
RICHMOND, VA 23223

VA LUST **S106850379**
VA LTANKS **N/A**

Site 2 of 2 in cluster G

Relative:
Higher

LUST REG PD:
Region: PD
Status: Closed
Pollution Complaint #: 19974275
Reg Code: PRO

Actual:
41 ft.

Region: PD
Status: Closed
Pollution Complaint #: 19890299
Reg Code: PRO

LTANKS:

Region: PRO
CEDS Facility Id: 200000168604
Case Status: Closed
Pollution Complaint #: 19974275
Reported: 05/15/1997

Region: PRO
CEDS Facility Id: 200000168604
Case Status: Closed
Pollution Complaint #: 19890299
Reported: 08/01/1988

37
West
1/4-1/2
0.381 mi.
2012 ft.

RICHMOND WWTW
1400 BRANDER STREET
RICHMOND, VA 23224

VA LUST **S109382441**
VA LTANKS **N/A**
VA SPILLS
VA NPDES

Relative:
Higher

LUST REG PD:
Region: PD
Status: Closed
Pollution Complaint #: 19940642
Reg Code: PRO

Actual:
17 ft.

Region: PD
Status: Closed
Pollution Complaint #: 19940381
Reg Code: PRO

Region: PD
Status: Closed
Pollution Complaint #: 19931608
Reg Code: PRO

LTANKS:

Region: PRO
CEDS Facility Id: 200000173817
Case Status: Closed
Pollution Complaint #: 19940642
Reported: 10/15/1993

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RICHMOND WWTW (Continued)

S109382441

Region: PRO
CEDS Facility Id: 200000173817
Case Status: Closed
Pollution Complaint #: 19940381
Reported: 09/01/1993

Region: PRO
CEDS Facility Id: 200000173817
Case Status: Closed
Pollution Complaint #: 19931608
Reported: 02/19/1993

SPILLS:

Fips City/County: Richmond City
Status: Not reported
Reference Id: Not reported
IR Number: 2005-P-0024
Associated IR: Not reported
Incident Date: 07/06/2004
Call Received Date: 07/03/2004
Closure Comments: See Site Summary for details
Threat To: Not reported
Terrorism (Y/N): NO
Characterize Incident: Not reported
Incident Type: Water
Incident Subtype: SSO
Materials: Sewage(540 - 540 Gallons)
Effect To Receptor: Not reported
Water Body: James River
Low Quantity To Water: -1
High Quantity To Water: -1
Quantity Units: Gallons
Other Receptors: Not reported
RP Company: Richmond WWTP
RP Name: Kennis Wooten
Property Owner: Not reported
Property Company: Not reported
Duration Of Event (Hrs): Not reported
Impacts: Not reported
Other Impacts: Not reported
Steps Taken: Not reported
Steps Taken Description: Not reported
System Components: Not reported
Other System Components: Not reported
Cause Of Event: Not reported
Corrective Action Taken: Not reported
Weather Status: Not reported
Precipitation (Wet): Not reported
Discharge Type: Not reported
Discharge Volume: Not reported
Unknown Discharge (Y/N): NO
Site Name: RICHMOND WWTP
Closure Date: 07/06/2004
Orig. Call Incident Description: ORLEANS STREET REGULATOR WAS BLOCKED WITH DEBRIS ALLOWING IT TO DISCHARGE DURING DRY WEATHER.DEBRIS WAS REMOVED AND THE REGULATOR PUT BACK IN SERVICE
Original Call Material Description: SEWAGE

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

RICHMOND WWTW (Continued)

S109382441

Original Call Location Description:	Richmond WWTP-1400 Brander Street-Richmond-VA-23224-Richmond City
Incident Ongoing at time of Call:	Not reported
Agencies Notified (Y/N):	NO
Other Agencies:	Not reported
Permitted (Y/N):	NO
Call Reported By Company Name:	Kennis Wooten
Call RP Company Name:	Richmond WWTP
Call RP Name:	Kennis Wooten
Call Property Owner Company Name:	Not reported
Call Property Owner Name:	Not reported
Site Summary:	Not reported
Fips City/County:	Richmond City
Status:	Not reported
Reference Id:	Not reported
IR Number:	2005-P-0701
Associated IR:	Not reported
Incident Date:	04/04/2005
Call Received Date:	04/04/2005
Closure Comments:	See Site Summary for details
Threat To:	Not reported
Terrorism (Y/N):	NO
Characterize Incident:	Not reported
Incident Type:	Water
Incident Subtype:	SSO
Materials:	Sewage(1200 - 1200 Gallons)
Effect To Receptor:	Not reported
Water Body:	James River
Low Quantity To Water:	-1
High Quantity To Water:	-1
Quantity Units:	Gallons
Other Receptors:	Not reported
RP Company:	Richmond WWTP
RP Name:	Not reported
Property Owner:	Kennis Wooten
Property Company:	Richmond WWTP
Duration Of Event (Hrs):	Not reported
Impacts:	Not reported
Other Impacts:	Not reported
Steps Taken:	Not reported
Steps Taken Description:	Not reported
System Components:	Not reported
Other System Components:	Not reported
Cause Of Event:	Not reported
Corrective Action Taken:	Not reported
Weather Status:	Not reported
Precipitation (Wet):	Not reported
Discharge Type:	Not reported
Discharge Volume:	Not reported
Unknown Discharge (Y/N):	NO
Site Name:	RICHMOND WWTP
Closure Date:	04/04/2005
Orig. Call Incident Description:	DEBRIS BUILDUP IN SEWER CAUSED A BACKUP THAT OVERFLOWED INTO A DITCH LEAKING TO THE JAMES RIVER
Original Call Material Description:	Not reported
Original Call Location Description:	Richmond WWTP-1400 Brander Street-Richmond-VA--Richmond City
Incident Ongoing at time of Call:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RICHMOND WWTW (Continued)

S109382441

Agencies Notified (Y/N):	NO
Other Agencies:	Not reported
Permitted (Y/N):	YES
Call Reported By Company Name:	Kennis Wooten
Call RP Company Name:	Richmond WWTP
Call RP Name:	Not reported
Call Property Owner Company Name:	Not reported
Call Property Owner Name:	Not reported
Site Summary:	Not reported
Fips City/County:	Richmond City
Status:	Not reported
Reference Id:	Not reported
IR Number:	2005-P-0702
Associated IR:	Not reported
Incident Date:	04/06/2005
Call Received Date:	04/08/2005
Closure Comments:	See Site Summary for details
Threat To:	Not reported
Terrorism (Y/N):	NO
Characterize Incident:	Not reported
Incident Type:	Water
Incident Subtype:	SSO
Materials:	Waste (Solid)(200 - 200 Gallons)
Effect To Receptor:	Not reported
Water Body:	Not reported
Low Quantity To Water:	Not reported
High Quantity To Water:	Not reported
Quantity Units:	Not reported
Other Receptors:	Not reported
RP Company:	Richmond WWTP
RP Name:	Not reported
Property Owner:	Kennis Wooten
Property Company:	Richmond WWTP
Duration Of Event (Hrs):	Not reported
Impacts:	Not reported
Other Impacts:	Not reported
Steps Taken:	Not reported
Steps Taken Description:	Not reported
System Components:	Not reported
Other System Components:	Not reported
Cause Of Event:	Not reported
Corrective Action Taken:	Not reported
Weather Status:	Not reported
Precipitation (Wet):	Not reported
Discharge Type:	Not reported
Discharge Volume:	Not reported
Unknown Discharge (Y/N):	NO
Site Name:	RICHMOND WWTP
Closure Date:	04/08/2005
Orig. Call Incident Description:	A 10 INCH MAINLINE WAS PLUGGED WITH GREASE & PAPER PRODUCTS
Original Call Material Description:	Not reported
Original Call Location Description:	Richmond WWTP-1400 Brander Street-Richmond-VA--Richmond City
Incident Ongoing at time of Call:	Not reported
Agencies Notified (Y/N):	NO
Other Agencies:	Not reported
Permitted (Y/N):	YES

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RICHMOND WWTW (Continued)

S109382441

Call Reported By Company Name: Kennis Wooten
Call RP Company Name: Richmond WWTP
Call RP Name: Not reported
Call Property Owner Company Name: Not reported
Call Property Owner Name: Not reported
Site Summary: Not reported

Fips City/County: Richmond City
Status: Not reported
Reference Id: Not reported
IR Number: 2008-P-0242
Associated IR: Not reported
Incident Date: 12/06/2007
Call Received Date: 12/06/2007
Closure Comments: See Site Summary for details
Threat To: Not reported
Terrorism (Y/N): NO
Characterize Incident: Not reported
Incident Type: Water
Incident Subtype: SSO
Materials: Sewage(1500 - 1500 Gallons)
Effect To Receptor: Not reported
Water Body: Kanawha Canal
Low Quantity To Water: 1500
High Quantity To Water: 1500
Quantity Units: Gallons
Other Receptors: Not reported
RP Company: Department of Public Utilities
RP Name: Not reported
Property Owner: Not reported
Property Company: Not reported
Duration Of Event (Hrs): Not reported
Impacts: Not reported
Other Impacts: Not reported
Steps Taken: Not reported
Steps Taken Description: Not reported
System Components: Not reported
Other System Components: Not reported
Cause Of Event: Not reported
Corrective Action Taken: Not reported
Weather Status: Not reported
Precipitation (Wet): Not reported
Discharge Type: Not reported
Discharge Volume: Not reported
Unknown Discharge (Y/N): NO
Site Name: RICHMOND WWTW
Closure Date: 12/06/2007
Orig. Call Incident Description: FOUND SEWAGE LEAKING INTO THE KANAWHA CANAL 1500 GALLONS
Original Call Material Description: Not reported
Original Call Location Description: Richmond Wastwater Treatment Works-1400 Brander
Street-Richmond-VA--Richmond City

Incident Ongoing at time of Call: Not reported
Agencies Notified (Y/N): NO
Other Agencies: Not reported
Permitted (Y/N): NO
Call Reported By Company Name: Clair Watson
Call RP Company Name: Department of Public Utilities

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

RICHMOND WWTW (Continued)

S109382441

Call RP Name:	Not reported
Call Property Owner Company Name:	Not reported
Call Property Owner Name:	Not reported
Site Summary:	Not reported
Fips City/County:	Richmond City
Status:	Not reported
Reference Id:	Not reported
IR Number:	2004-P-0790
Associated IR:	Not reported
Incident Date:	05/20/2004
Call Received Date:	05/20/2004
Closure Comments:	See Site Summary for details
Threat To:	Not reported
Terrorism (Y/N):	NO
Characterize Incident:	Not reported
Incident Type:	Water
Incident Subtype:	SSO
Materials:	Sewage(100 - 100 Gallons)
Effect To Receptor:	Not reported
Water Body:	Goodes Creek
Low Quantity To Water:	-1
High Quantity To Water:	-1
Quantity Units:	Gallons
Other Receptors:	Not reported
RP Company:	Richmond WWTP
RP Name:	Kennis Wooten
Property Owner:	Not reported
Property Company:	Not reported
Duration Of Event (Hrs):	Not reported
Impacts:	Not reported
Other Impacts:	Not reported
Steps Taken:	Not reported
Steps Taken Description:	Not reported
System Components:	Not reported
Other System Components:	Not reported
Cause Of Event:	Not reported
Corrective Action Taken:	Not reported
Weather Status:	Not reported
Precipitation (Wet):	Not reported
Discharge Type:	Not reported
Discharge Volume:	Not reported
Unknown Discharge (Y/N):	NO
Site Name:	RICHMOND WWTP
Closure Date:	05/20/2004
Orig. Call Incident Description:	INTERS. OF LYNHAVEN AVE. BELLMEADE ST. MAINLINE DISCHARGE. CLOGGED WITH GREASE IN AN EASMENT THAT IS LOCATED BESIDE AN OPEN STORM DITCH
Original Call Material Description:	SEWAGE
Original Call Location Description:	Richmond WWTP-1400 Brander Street-Richmond-VA-23224-Richmond City
Incident Ongoing at time of Call:	Not reported
Agencies Notified (Y/N):	NO
Other Agencies:	Not reported
Permitted (Y/N):	NO
Call Reported By Company Name:	Kennis Wooten
Call RP Company Name:	Richmond WWTP
Call RP Name:	Kennis Wooten
Call Property Owner Company Name:	Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

RICHMOND WWTW (Continued)

S109382441

Call Property Owner Name:	Not reported
Site Summary:	Not reported
Fips City/County:	Richmond City
Status:	Not reported
Reference Id:	Not reported
IR Number:	2005-P-0042
Associated IR:	Not reported
Incident Date:	07/15/2004
Call Received Date:	07/15/2004
Closure Comments:	See Site Summary for details
Threat To:	Not reported
Terrorism (Y/N):	NO
Characterize Incident:	Not reported
Incident Type:	Water
Incident Subtype:	SSO
Materials:	Sewage(200 - 200 Gallons)
Effect To Receptor:	Not reported
Water Body:	Gillies Creek
Low Quantity To Water:	-1
High Quantity To Water:	-1
Quantity Units:	Gallons
Other Receptors:	Not reported
RP Company:	Hubert Benthall
RP Name:	Hubert Benthall
Property Owner:	Not reported
Property Company:	Not reported
Duration Of Event (Hrs):	Not reported
Impacts:	Not reported
Other Impacts:	Not reported
Steps Taken:	Not reported
Steps Taken Description:	Not reported
System Components:	Not reported
Other System Components:	Not reported
Cause Of Event:	Not reported
Corrective Action Taken:	Not reported
Weather Status:	Not reported
Precipitation (Wet):	Not reported
Discharge Type:	Not reported
Discharge Volume:	Not reported
Unknown Discharge (Y/N):	NO
Site Name:	RICHMOND WWTP
Closure Date:	07/15/2004
Orig. Call Incident Description:	AT CSO 25, BRELL STREET AND GILLIE CREEK, THE MAINLINE DISCHARGE. LINE WAS CLOGGED WITH ROOTS WHICH CAUSED A BUILDUP OF DEBRIS CLOGGING THE LINE
Original Call Material Description:	SEWAGE
Original Call Location Description:	Richmond WWTP-1400 Brander Street-Richmond-VA--Richmond City
Incident Ongoing at time of Call:	Not reported
Agencies Notified (Y/N):	NO
Other Agencies:	Not reported
Permitted (Y/N):	NO
Call Reported By Company Name:	Hubert Benthall
Call RP Company Name:	Hubert Benthall
Call RP Name:	Hubert Benthall
Call Property Owner Company Name:	Not reported
Call Property Owner Name:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RICHMOND WWTW (Continued)

S109382441

Site Summary:	Not reported
Fips City/County:	Richmond City
Status:	Not reported
Reference Id:	Not reported
IR Number:	2005-P-0056
Associated IR:	Not reported
Incident Date:	07/15/2004
Call Received Date:	07/16/2004
Closure Comments:	See Site Summary for details
Threat To:	Not reported
Terrorism (Y/N):	NO
Characterize Incident:	Not reported
Incident Type:	Water
Incident Subtype:	Water
Materials:	Sewage(500 - 500 Gallons)
Effect To Receptor:	Not reported
Water Body:	Stoney Run Creek
Low Quantity To Water:	-1
High Quantity To Water:	-1
Quantity Units:	Gallons
Other Receptors:	Not reported
RP Company:	Richmond WWTP
RP Name:	Hubert Benthall
Property Owner:	Not reported
Property Company:	Not reported
Duration Of Event (Hrs):	Not reported
Impacts:	Not reported
Other Impacts:	Not reported
Steps Taken:	Not reported
Steps Taken Description:	Not reported
System Components:	Not reported
Other System Components:	Not reported
Cause Of Event:	Not reported
Corrective Action Taken:	Not reported
Weather Status:	Not reported
Precipitation (Wet):	Not reported
Discharge Type:	Not reported
Discharge Volume:	Not reported
Unknown Discharge (Y/N):	NO
Site Name:	RICHMOND WWTP
Closure Date:	07/15/2004
Orig. Call Incident Description:	RESIDENTIAL GREASE CLOGGED THE SEWER LINE AT FAIRFIELD AND PHAUP STREET
Original Call Material Description:	SEWAGE
Original Call Location Description:	Richmond WWTP-1400 Brander Street-Richmond-VA-23224-Richmond City
Incident Ongoing at time of Call:	Not reported
Agencies Notified (Y/N):	NO
Other Agencies:	Not reported
Permitted (Y/N):	NO
Call Reported By Company Name:	Hubert Benthall
Call RP Company Name:	Richmond WWTP
Call RP Name:	Hubert Benthall
Call Property Owner Company Name:	Not reported
Call Property Owner Name:	Not reported
Site Summary:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RICHMOND WWTW (Continued)

S109382441

Reference Id: Not reported
IR Number: 2005-P-0076
Associated IR: Not reported
Incident Date: 07/28/2004
Call Received Date: 07/29/2004
Closure Comments: See Site Summary for details
Threat To: Not reported
Terrorism (Y/N): NO
Characterize Incident: Not reported
Incident Type: Water
Incident Subtype: SSO
Materials: Sewage(3000 - 3000 Gallons)
Effect To Receptor: Not reported
Water Body: Pocoshock Creek
Low Quantity To Water: -1
High Quantity To Water: -1
Quantity Units: Gallons
Other Receptors: Not reported
RP Company: Richmond WWTP
RP Name: Kennis Wooten
Property Owner: Not reported
Property Company: Not reported
Duration Of Event (Hrs): Not reported
Impacts: Not reported
Other Impacts: Not reported
Steps Taken: Not reported
Steps Taken Description: Not reported
System Components: Not reported
Other System Components: Not reported
Cause Of Event: Not reported
Corrective Action Taken: Not reported
Weather Status: Not reported
Precipitation (Wet): Not reported
Discharge Type: Not reported
Discharge Volume: Not reported
Unknown Discharge (Y/N): NO
Site Name: RICHMOND WWTP
Closure Date: 07/28/2004
Orig. Call Incident Description: A MANHOLE ON PRIVATE PROPERTY NEAR THE INTERSECTION OF WHITEHEALD AND ELMRIDGE RD OVERFLOW THE SERVICE LINE TO AN APT. COMPLEX WAS PLUGGED WITH GREASE AND DEBRIS

Original Call Material Description: SEWAGE
Original Call Location Description: Richmond WWTP-1400 Brander Street-Richmond-VA-23224-Richmond City
Incident Ongoing at time of Call: Not reported
Agencies Notified (Y/N): NO
Other Agencies: Not reported
Permitted (Y/N): NO
Call Reported By Company Name: Kennis Wooten
Call RP Company Name: Richmond WWTP
Call RP Name: Kennis Wooten
Call Property Owner Company Name: Not reported
Call Property Owner Name: Not reported
Site Summary: Not reported

Fips City/County: Richmond City
Status: Not reported
Reference Id: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

RICHMOND WWTW (Continued)

S109382441

Associated IR:	Not reported
Incident Date:	01/08/2008
Call Received Date:	01/09/2008
Closure Comments:	See Site Summary for details
Threat To:	Not reported
Terrorism (Y/N):	NO
Characterize Incident:	Not reported
Incident Type:	Water
Incident Subtype:	SSO
Materials:	Sewage(100 - 100 Gallons)
Effect To Receptor:	Not reported
Water Body:	Not reported
Low Quantity To Water:	Not reported
High Quantity To Water:	Not reported
Quantity Units:	Not reported
Other Receptors:	Not reported
RP Company:	Not reported
RP Name:	Not reported
Property Owner:	Not reported
Property Company:	Not reported
Duration Of Event (Hrs):	Not reported
Impacts:	Not reported
Other Impacts:	Not reported
Steps Taken:	Not reported
Steps Taken Description:	Not reported
System Components:	Not reported
Other System Components:	Not reported
Cause Of Event:	Not reported
Corrective Action Taken:	Not reported
Weather Status:	Not reported
Precipitation (Wet):	Not reported
Discharge Type:	Not reported
Discharge Volume:	Not reported
Unknown Discharge (Y/N):	NO
Site Name:	RICHMOND WWTW
Closure Date:	01/08/2008
Orig. Call Incident Description:	5618 SOUTHERN PINE COURT SEWER MANHOLE IN ESAEMENT WAS BLOCKED WITH GREASE AND OVERFLOWING
Original Call Material Description:	Not reported
Original Call Location Description:	Richmond Wwt Works-1400 Brander Street-Richmond-VA-23224-Richmond City
Incident Ongoing at time of Call:	Not reported
Agencies Notified (Y/N):	NO
Other Agencies:	Not reported
Permitted (Y/N):	NO
Call Reported By Company Name:	Clair Watson
Call RP Company Name:	Not reported
Call RP Name:	Not reported
Call Property Owner Company Name:	Not reported
Call Property Owner Name:	Not reported
Site Summary:	Not reported
Fips City/County:	Richmond City
Status:	Not reported
Reference Id:	Not reported
IR Number:	2005-P-0436
Associated IR:	Not reported
Incident Date:	11/20/2004

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RICHMOND WWTW (Continued)

S109382441

Call Received Date: 11/20/2004
Closure Comments: See Site Summary for details
Threat To: Not reported
Terrorism (Y/N): NO
Characterize Incident: Not reported
Incident Type: Water
Incident Subtype: Water,SSO
Materials: Not reported
Effect To Receptor: Not reported
Water Body: James River
Low Quantity To Water: -1
High Quantity To Water: -1
Quantity Units: Unknown
Other Receptors: Not reported
RP Company: Richmond WWTP
RP Name: Not reported
Property Owner: Not reported
Property Company: Not reported
Duration Of Event (Hrs): Not reported
Impacts: Not reported
Other Impacts: Not reported
Steps Taken: Not reported
Steps Taken Description: Not reported
System Components: Not reported
Other System Components: Not reported
Cause Of Event: Not reported
Corrective Action Taken: Not reported
Weather Status: Not reported
Precipitation (Wet): Not reported
Discharge Type: Not reported
Discharge Volume: Not reported
Unknown Discharge (Y/N): NO
Site Name: RICHMOND WWTP
Closure Date: 11/20/2004
Orig. Call Incident Description: MAINLINE SEWER BROKEN AT A CREEK ALLOWING SEWAGE TO FLOW INTO A CREEK
Original Call Material Description: Not reported
Original Call Location Description: Richmond WWTP-1400 Brander Street-Richmond-VA--Richmond City
Incident Ongoing at time of Call: Not reported
Agencies Notified (Y/N): NO
Other Agencies: Not reported
Permitted (Y/N): YES
Call Reported By Company Name: Kennis Wooten
Call RP Company Name: Richmond WWTP
Call RP Name: Not reported
Call Property Owner Company Name: Not reported
Call Property Owner Name: Not reported
Site Summary: Not reported

Fips City/County: Richmond City
Status: Not reported
Reference Id: Not reported
IR Number: 2005-P-0437
Associated IR: Not reported
Incident Date: 11/15/2004
Call Received Date: 11/16/2004
Closure Comments: See Site Summary for details
Threat To: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RICHMOND WWTW (Continued)

S109382441

Terrorism (Y/N):	NO
Characterize Incident:	Not reported
Incident Type:	Water
Incident Subtype:	SSO
Materials:	Not reported
Effect To Receptor:	Not reported
Water Body:	Pocoshock Creek
Low Quantity To Water:	-1
High Quantity To Water:	-1
Quantity Units:	Unknown
Other Receptors:	Not reported
RP Company:	Richmond WWTP
RP Name:	Not reported
Property Owner:	Not reported
Property Company:	Not reported
Duration Of Event (Hrs):	Not reported
Impacts:	Not reported
Other Impacts:	Not reported
Steps Taken:	Not reported
Steps Taken Description:	Not reported
System Components:	Not reported
Other System Components:	Not reported
Cause Of Event:	Not reported
Corrective Action Taken:	Not reported
Weather Status:	Not reported
Precipitation (Wet):	Not reported
Discharge Type:	Not reported
Discharge Volume:	Not reported
Unknown Discharge (Y/N):	NO
Site Name:	RICHMOND WWTP
Closure Date:	11/16/2004
Orig. Call Incident Description:	MAINLINE SEWER PLUGGED WITH RAGS & DEBRIS CAUSING AN OVERFLOW
Original Call Material Description:	Not reported
Original Call Location Description:	Richmond WWTP-1400 Brander Street-Richmond-VA--Richmond City
Incident Ongoing at time of Call:	Not reported
Agencies Notified (Y/N):	NO
Other Agencies:	Not reported
Permitted (Y/N):	YES
Call Reported By Company Name:	Alan Benthall
Call RP Company Name:	Richmond WWTP
Call RP Name:	Not reported
Call Property Owner Company Name:	Not reported
Call Property Owner Name:	Not reported
Site Summary:	Not reported
Fips City/County:	Richmond City
Status:	Not reported
Reference Id:	Not reported
IR Number:	2005-P-0438
Associated IR:	Not reported
Incident Date:	11/16/2004
Call Received Date:	11/16/2004
Closure Comments:	See Site Summary for details
Threat To:	Not reported
Terrorism (Y/N):	NO
Characterize Incident:	Not reported
Incident Type:	Water

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RICHMOND WWTW (Continued)

S109382441

Incident Subtype: SSO
Materials: Not reported
Effect To Receptor: Not reported
Water Body: Powhite Creek
Low Quantity To Water: -1
High Quantity To Water: -1
Quantity Units: Unknown
Other Receptors: Not reported
RP Company: Richmond WWTP
RP Name: Not reported
Property Owner: Not reported
Property Company: Not reported
Duration Of Event (Hrs): Not reported
Impacts: Not reported
Other Impacts: Not reported
Steps Taken: Not reported
Steps Taken Description: Not reported
System Components: Not reported
Other System Components: Not reported
Cause Of Event: Not reported
Corrective Action Taken: Not reported
Weather Status: Not reported
Precipitation (Wet): Not reported
Discharge Type: Not reported
Discharge Volume: Not reported
Unknown Discharge (Y/N): NO
Site Name: RICHMOND WWTP
Closure Date: 11/16/2004
Orig. Call Incident Description: MAINLINE SEWER AT 5820 WESTOVER PLUGGED WITH GREASE CAUSING OVERFLOW
Original Call Material Description: Not reported
Original Call Location Description: Richmond WWTP-1400 Brander Street-Richmond-VA--Richmond City
Incident Ongoing at time of Call: Not reported
Agencies Notified (Y/N): NO
Other Agencies: Not reported
Permitted (Y/N): YES
Call Reported By Company Name: Alan Benthall
Call RP Company Name: Richmond WWTP
Call RP Name: Not reported
Call Property Owner Company Name: Not reported
Call Property Owner Name: Not reported
Site Summary: Not reported

Fips City/County: Richmond City
Status: Not reported
Reference Id: Not reported
IR Number: 2005-P-0441
Associated IR: Not reported
Incident Date: 11/30/2004
Call Received Date: 11/30/2004
Closure Comments: See Site Summary for details
Threat To: Not reported
Terrorism (Y/N): NO
Characterize Incident: Not reported
Incident Type: Water
Incident Subtype: SSO
Materials: Sewage(10 - 10 Gallons)
Effect To Receptor: Not reported

Map ID
 Direction
 Distance
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MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

RICHMOND WWTP (Continued)

S109382441

Water Body:	Gillies Creek
Low Quantity To Water:	-1
High Quantity To Water:	-1
Quantity Units:	Gallons
Other Receptors:	Not reported
RP Company:	Richmond WWTP
RP Name:	Albert White
Property Owner:	Not reported
Property Company:	Not reported
Duration Of Event (Hrs):	Not reported
Impacts:	Not reported
Other Impacts:	Not reported
Steps Taken:	Not reported
Steps Taken Description:	Not reported
System Components:	Not reported
Other System Components:	Not reported
Cause Of Event:	Not reported
Corrective Action Taken:	Not reported
Weather Status:	Not reported
Precipitation (Wet):	Not reported
Discharge Type:	Not reported
Discharge Volume:	Not reported
Unknown Discharge (Y/N):	NO
Site Name:	RICHMOND WWTP
Closure Date:	11/30/2004
Orig. Call Incident Description:	MAINLINE SEWER WAS CLOGGED WITH LEAVES & DEBRIS AT A DRY WEATHER FLOW
Original Call Material Description:	Not reported
Original Call Location Description:	Richmond WWTP-1400 Brander Street-Richmond-VA-23224-Richmond City
Incident Ongoing at time of Call:	Not reported
Agencies Notified (Y/N):	NO
Other Agencies:	Not reported
Permitted (Y/N):	YES
Call Reported By Company Name:	Kennis Wooten
Call RP Company Name:	Richmond WWTP
Call RP Name:	Albert White
Call Property Owner Company Name:	Not reported
Call Property Owner Name:	Not reported
Site Summary:	Not reported
Fips City/County:	Richmond City
Status:	Not reported
Reference Id:	Not reported
IR Number:	2005-P-0442
Associated IR:	Not reported
Incident Date:	11/25/2004
Call Received Date:	11/26/2004
Closure Comments:	See Site Summary for details
Threat To:	Not reported
Terrorism (Y/N):	NO
Characterize Incident:	Not reported
Incident Type:	Water
Incident Subtype:	SSO
Materials:	Waste (Solid)(1000 - 1000 Gallons)
Effect To Receptor:	Not reported
Water Body:	James River
Low Quantity To Water:	-1
High Quantity To Water:	-1

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RICHMOND WWTW (Continued)

S109382441

Quantity Units:	Gallons
Other Receptors:	Not reported
RP Company:	Richmond WWTP
RP Name:	David Kirk
Property Owner:	Not reported
Property Company:	Not reported
Duration Of Event (Hrs):	Not reported
Impacts:	Not reported
Other Impacts:	Not reported
Steps Taken:	Not reported
Steps Taken Description:	Not reported
System Components:	Not reported
Other System Components:	Not reported
Cause Of Event:	Not reported
Corrective Action Taken:	Not reported
Weather Status:	Not reported
Precipitation (Wet):	Not reported
Discharge Type:	Not reported
Discharge Volume:	Not reported
Unknown Discharge (Y/N):	NO
Site Name:	RICHMOND WWTP
Closure Date:	11/26/2004
Orig. Call Incident Description:	MAINLINE CLOGGED WITH MISCELLANEOUS DEBRIS AT 306 SAINT DAVID LANE
Original Call Material Description:	Not reported
Original Call Location Description:	Richmond WWTP-1400 Brander Street-Richmond-VA-23224-Richmond City
Incident Ongoing at time of Call:	Not reported
Agencies Notified (Y/N):	NO
Other Agencies:	Not reported
Permitted (Y/N):	YES
Call Reported By Company Name:	Kennis Wooten
Call RP Company Name:	Richmond WWTP
Call RP Name:	David Kirk
Call Property Owner Company Name:	Not reported
Call Property Owner Name:	Not reported
Site Summary:	Not reported
Fips City/County:	Richmond City
Status:	Not reported
Reference Id:	Not reported
IR Number:	2005-P-0443
Associated IR:	Not reported
Incident Date:	11/30/2004
Call Received Date:	11/30/2004
Closure Comments:	See Site Summary for details
Threat To:	Not reported
Terrorism (Y/N):	NO
Characterize Incident:	Not reported
Incident Type:	Water
Incident Subtype:	SSO
Materials:	Waste (Solid)(2000 - 2000 Gallons)
Effect To Receptor:	Not reported
Water Body:	James River
Low Quantity To Water:	-1
High Quantity To Water:	-1
Quantity Units:	Gallons
Other Receptors:	Not reported
RP Company:	Richmond WWTP

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

RICHMOND WWTP (Continued)

S109382441

RP Name:	Albert White
Property Owner:	Not reported
Property Company:	Not reported
Duration Of Event (Hrs):	Not reported
Impacts:	Not reported
Other Impacts:	Not reported
Steps Taken:	Not reported
Steps Taken Description:	Not reported
System Components:	Not reported
Other System Components:	Not reported
Cause Of Event:	Not reported
Corrective Action Taken:	Not reported
Weather Status:	Not reported
Precipitation (Wet):	Not reported
Discharge Type:	Not reported
Discharge Volume:	Not reported
Unknown Discharge (Y/N):	NO
Site Name:	RICHMOND WWTP
Closure Date:	11/30/2004
Orig. Call Incident Description:	MAINLINE CLOGGED WITH BRICKS, STONES, ASPHALT & OTHER RUBBLE RELATED TO A BANK CAVE-IN
Original Call Material Description:	Not reported
Original Call Location Description:	Richmond WWTP-1400 Brander Street-Richmond-VA-23224-Richmond City
Incident Ongoing at time of Call:	Not reported
Agencies Notified (Y/N):	NO
Other Agencies:	Not reported
Permitted (Y/N):	YES
Call Reported By Company Name:	Kennis Wooten
Call RP Company Name:	Richmond WWTP
Call RP Name:	Albert White
Call Property Owner Company Name:	Not reported
Call Property Owner Name:	Not reported
Site Summary:	Not reported
Fips City/County:	Richmond City
Status:	Not reported
Reference Id:	Not reported
IR Number:	2003-P-0430
Associated IR:	Not reported
Incident Date:	03/05/2003
Call Received Date:	03/11/2003
Closure Comments:	See Site Summary for details
Threat To:	Not reported
Terrorism (Y/N):	NO
Characterize Incident:	Not reported
Incident Type:	Water
Incident Subtype:	Water,SSO
Materials:	Sewage(4000 - 4000 Gallons)
Effect To Receptor:	Not reported
Water Body:	James River
Low Quantity To Water:	-1
High Quantity To Water:	-1
Quantity Units:	Gallons
Other Receptors:	Not reported
RP Company:	Not reported
RP Name:	Not reported
Property Owner:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RICHMOND WWTW (Continued)

S109382441

Property Company: Not reported
Duration Of Event (Hrs): Not reported
Impacts: Not reported
Other Impacts: Not reported
Steps Taken: Not reported
Steps Taken Description: Not reported
System Components: Not reported
Other System Components: Not reported
Cause Of Event: Not reported
Corrective Action Taken: Not reported
Weather Status: Not reported
Precipitation (Wet): Not reported
Discharge Type: Not reported
Discharge Volume: Not reported
Unknown Discharge (Y/N): NO
Site Name: RICHMOND WWTF (VA0063177)
Closure Date: 03/13/2003
Orig. Call Incident Description: 12th & Bryd Streets SCO overflow. At 1530 hours Sewer Maint. Crew was notified of an overflowing going to the James River. Crew worked trying to unstop line until after midnight (could not unstop). At 0800 on 03/06/03 it was determined two gates near the
Original Call Material Description: Sewage
Original Call Location Description: Richmond WWTF (VA0063177)-1400 Brander Street-Richmond-VA-23224-Richmond City
Incident Ongoing at time of Call: Not reported
Agencies Notified (Y/N): NO
Other Agencies: Not reported
Permitted (Y/N): YES
Call Reported By Company Name: Claire Watson
Call RP Company Name: Not reported
Call RP Name: Not reported
Call Property Owner Company Name: Not reported
Call Property Owner Name: Not reported
Site Summary: Gates were opened and this alleviated the overflow at 12th and Byrd. SOPs are being revised to insure these gates are properly checked after a flood.
Fips City/County: Richmond City
Status: Not reported
Reference Id: Not reported
IR Number: 2005-P-0293
Associated IR: Not reported
Incident Date: 09/01/2004
Call Received Date: 09/02/2004
Closure Comments: See Site Summary for details
Threat To: Not reported
Terrorism (Y/N): NO
Characterize Incident: Not reported
Incident Type: Water
Incident Subtype: SSO
Materials: Not reported
Effect To Receptor: Not reported
Water Body: Not reported
Low Quantity To Water: Not reported
High Quantity To Water: Not reported
Quantity Units: Not reported
Other Receptors: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RICHMOND WWTW (Continued)

S109382441

RP Company: Richmond WWTP
RP Name: Kennis Wooten
Property Owner: Not reported
Property Company: Not reported
Duration Of Event (Hrs): Not reported
Impacts: Not reported
Other Impacts: Not reported
Steps Taken: Not reported
Steps Taken Description: Not reported
System Components: Not reported
Other System Components: Not reported
Cause Of Event: Not reported
Corrective Action Taken: Not reported
Weather Status: Not reported
Precipitation (Wet): Not reported
Discharge Type: Not reported
Discharge Volume: Not reported
Unknown Discharge (Y/N): NO
Site Name: RICHMOND WWTW
Closure Date: 09/01/2004
Orig. Call Incident Description: BLOODY RUN REGULATOR WAS DISCOVERED TO BE CLOGGED WITH DEBRIS ALLOWING SEWER TO FLOW INTO JAMES RIVER
Original Call Material Description: Not reported
Original Call Location Description: Richmond WWTP-1400 Brander Street-Richmond-VA-23224-Richmond City
Incident Ongoing at time of Call: Not reported
Agencies Notified (Y/N): NO
Other Agencies: Not reported
Permitted (Y/N): NO
Call Reported By Company Name: Kennis Wooten
Call RP Company Name: Richmond WWTP
Call RP Name: Kennis Wooten
Call Property Owner Company Name: Not reported
Call Property Owner Name: Not reported
Site Summary: Not reported

Fips City/County: Richmond City
Status: Not reported
Reference Id: Not reported
IR Number: 2005-P-0294
Associated IR: Not reported
Incident Date: 09/02/2004
Call Received Date: 09/03/2004
Closure Comments: See Site Summary for details
Threat To: Not reported
Terrorism (Y/N): NO
Characterize Incident: Not reported
Incident Type: Water
Incident Subtype: SSO
Materials: Sewage(-1 - -1 Unknown)
Effect To Receptor: Not reported
Water Body: Cherokee Lake
Low Quantity To Water: -1
High Quantity To Water: -1
Quantity Units: Unknown
Other Receptors: Not reported
RP Company: Richmond WWTP
RP Name: Kennis Wooten

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

RICHMOND WWTP (Continued)

S109382441

Property Owner:	Not reported
Property Company:	Not reported
Duration Of Event (Hrs):	Not reported
Impacts:	Not reported
Other Impacts:	Not reported
Steps Taken:	Not reported
Steps Taken Description:	Not reported
System Components:	Not reported
Other System Components:	Not reported
Cause Of Event:	Not reported
Corrective Action Taken:	Not reported
Weather Status:	Not reported
Precipitation (Wet):	Not reported
Discharge Type:	Not reported
Discharge Volume:	Not reported
Unknown Discharge (Y/N):	NO
Site Name:	RICHMOND WWTP
Closure Date:	09/02/2004
Orig. Call Incident Description:	SEWER LINE WAS EXPOSED AND BROKEN WHEN A CREEK FLOODED AS A RESULT OF TROPICAL STORM GASTON
Original Call Material Description:	SEWAGE
Original Call Location Description:	Richmond WWTP-1400 Brander Street-Richmond-VA-23224-Richmond City
Incident Ongoing at time of Call:	Not reported
Agencies Notified (Y/N):	NO
Other Agencies:	Not reported
Permitted (Y/N):	NO
Call Reported By Company Name:	Kennis Wooten
Call RP Company Name:	Richmond WWTP
Call RP Name:	Kennis Wooten
Call Property Owner Company Name:	Not reported
Call Property Owner Name:	Not reported
Site Summary:	Not reported
Fips City/County:	Richmond City
Status:	Not reported
Reference Id:	Not reported
IR Number:	2005-P-0301
Associated IR:	Not reported
Incident Date:	09/18/2004
Call Received Date:	09/20/2004
Closure Comments:	See Site Summary for details
Threat To:	Not reported
Terrorism (Y/N):	NO
Characterize Incident:	Not reported
Incident Type:	Water
Incident Subtype:	SSO
Materials:	Sewage(-1 - -1 Unknown)
Effect To Receptor:	Not reported
Water Body:	Not reported
Low Quantity To Water:	Not reported
High Quantity To Water:	Not reported
Quantity Units:	Not reported
Other Receptors:	Not reported
RP Company:	Richmond WWTP
RP Name:	Not reported
Property Owner:	Not reported
Property Company:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RICHMOND WWTW (Continued)

S109382441

Duration Of Event (Hrs):	Not reported
Impacts:	Not reported
Other Impacts:	Not reported
Steps Taken:	Not reported
Steps Taken Description:	Not reported
System Components:	Not reported
Other System Components:	Not reported
Cause Of Event:	Not reported
Corrective Action Taken:	Not reported
Weather Status:	Not reported
Precipitation (Wet):	Not reported
Discharge Type:	Not reported
Discharge Volume:	Not reported
Unknown Discharge (Y/N):	NO
Site Name:	RICHMOND WWTP
Closure Date:	09/17/2004
Orig. Call Incident Description:	A SEWER MANHOLE WAS DISCOVERED WITH INDICATIONS OF PAST OVERFLOWS. NO OVERFLOW
Original Call Material Description:	SEWAGE
Original Call Location Description:	Richmond WWTP-1400 Brander Street-Richmond-VA-23224-Richmond City
Incident Ongoing at time of Call:	Not reported
Agencies Notified (Y/N):	NO
Other Agencies:	Not reported
Permitted (Y/N):	NO
Call Reported By Company Name:	Kennis Wooten
Call RP Company Name:	Richmond WWTP
Call RP Name:	Not reported
Call Property Owner Company Name:	Not reported
Call Property Owner Name:	Not reported
Site Summary:	Not reported
Fips City/County:	Richmond City
Status:	Not reported
Reference Id:	Not reported
IR Number:	2005-P-0307
Associated IR:	Not reported
Incident Date:	09/24/2004
Call Received Date:	09/24/2004
Closure Comments:	See Site Summary for details
Threat To:	Not reported
Terrorism (Y/N):	NO
Characterize Incident:	Not reported
Incident Type:	Water
Incident Subtype:	SSO
Materials:	Sewage(60 - 60 Gallons)
Effect To Receptor:	Not reported
Water Body:	Gillies Creek
Low Quantity To Water:	-1
High Quantity To Water:	-1
Quantity Units:	Gallons
Other Receptors:	Not reported
RP Company:	Not reported
RP Name:	Not reported
Property Owner:	Not reported
Property Company:	Not reported
Duration Of Event (Hrs):	Not reported
Impacts:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RICHMOND WWTP (Continued)

S109382441

Other Impacts:	Not reported
Steps Taken:	Not reported
Steps Taken Description:	Not reported
System Components:	Not reported
Other System Components:	Not reported
Cause Of Event:	Not reported
Corrective Action Taken:	Not reported
Weather Status:	Not reported
Precipitation (Wet):	Not reported
Discharge Type:	Not reported
Discharge Volume:	Not reported
Unknown Discharge (Y/N):	NO
Site Name:	RICHMOND WWTP
Closure Date:	09/24/2004
Orig. Call Incident Description:	GILLIES & VARINA REGULAR MALFUNCTIONSED DUE TO DEBRIS
Original Call Material Description:	SEWAGE
Original Call Location Description:	Richmond WWTP-1400 Brander Street-Richmond-VA-23224-Richmond City
Incident Ongoing at time of Call:	Not reported
Agencies Notified (Y/N):	NO
Other Agencies:	Not reported
Permitted (Y/N):	NO
Call Reported By Company Name:	Kennis Wooten
Call RP Company Name:	Not reported
Call RP Name:	Not reported
Call Property Owner Company Name:	Not reported
Call Property Owner Name:	Not reported
Site Summary:	Not reported
Fips City/County:	Richmond City
Status:	Not reported
Reference Id:	Not reported
IR Number:	2004-P-0518
Associated IR:	Not reported
Incident Date:	12/22/2003
Call Received Date:	12/23/2003
Closure Comments:	See Site Summary for details
Threat To:	Not reported
Terrorism (Y/N):	NO
Characterize Incident:	Not reported
Incident Type:	Water
Incident Subtype:	SSO
Materials:	Sewage(800 - 800 Gallons)
Effect To Receptor:	Not reported
Water Body:	Not reported
Low Quantity To Water:	Not reported
High Quantity To Water:	Not reported
Quantity Units:	Not reported
Other Receptors:	Not reported
RP Company:	City of Richmond WWTP
RP Name:	Claire Watson
Property Owner:	Not reported
Property Company:	City of Richmond
Duration Of Event (Hrs):	Not reported
Impacts:	Not reported
Other Impacts:	Not reported
Steps Taken:	Not reported
Steps Taken Description:	Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

RICHMOND WWTP (Continued)

S109382441

System Components:	Not reported
Other System Components:	Not reported
Cause Of Event:	Not reported
Corrective Action Taken:	Not reported
Weather Status:	Not reported
Precipitation (Wet):	Not reported
Discharge Type:	Not reported
Discharge Volume:	Not reported
Unknown Discharge (Y/N):	NO
Site Name:	RICHMOND WWTP
Closure Date:	01/29/2004
Orig. Call Incident Description:	2000 BLOCK OF RICHMOND- HENRICO TPKE, MAIN LINE COLLAPSE, SEWER MAINT. STARATED WORK AT 1900 AND COMPLETED REPAIRS AT 2400 PM 12/22.CREW CLEANED AND LIMED SPILL SITE
Original Call Material Description:	SEWAGE
Original Call Location Description:	Richmond WWTP-1400 Brander Street-Richmond-VA--Richmond City
Incident Ongoing at time of Call:	Not reported
Agencies Notified (Y/N):	NO
Other Agencies:	Not reported
Permitted (Y/N):	NO
Call Reported By Company Name:	Claire Watson
Call RP Company Name:	City of Richmond WWTP
Call RP Name:	Claire Watson
Call Property Owner Company Name:	Not reported
Call Property Owner Name:	Not reported
Site Summary:	Not reported
Fips City/County:	Richmond City
Status:	Not reported
Reference Id:	Not reported
IR Number:	2004-P-0519
Associated IR:	Not reported
Incident Date:	12/22/2003
Call Received Date:	12/23/2003
Closure Comments:	See Site Summary for details
Threat To:	Not reported
Terrorism (Y/N):	NO
Characterize Incident:	Not reported
Incident Type:	Water
Incident Subtype:	SSO
Materials:	Sewage(500 - 500 Gallons)
Effect To Receptor:	Not reported
Water Body:	Not reported
Low Quantity To Water:	Not reported
High Quantity To Water:	Not reported
Quantity Units:	Not reported
Other Receptors:	Not reported
RP Company:	City of Richmond WWTP
RP Name:	Not reported
Property Owner:	Not reported
Property Company:	Not reported
Duration Of Event (Hrs):	Not reported
Impacts:	Not reported
Other Impacts:	Not reported
Steps Taken:	Not reported
Steps Taken Description:	Not reported
System Components:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RICHMOND WWTW (Continued)

S109382441

Other System Components: Not reported
Cause Of Event: Not reported
Corrective Action Taken: Not reported
Weather Status: Not reported
Precipitation (Wet): Not reported
Discharge Type: Not reported
Discharge Volume: Not reported
Unknown Discharge (Y/N): NO
Site Name: RICHMOND WWTP
Closure Date: 01/29/2004
Orig. Call Incident Description: 6339 GLYNDON LANE, MAIN SEWER LINE CLOGGED WITH GREASE. LINE WAS CLEANED AND BACK IN SERVICE AT 1800.3 CREW CLEANED AND LIMED AREA OF SPILL
Original Call Material Description: SEWAGE
Original Call Location Description: Richmond WWTP-1400 Brander Street-Richmond-VA-23224-Richmond City
Incident Ongoing at time of Call: Not reported
Agencies Notified (Y/N): NO
Other Agencies: Not reported
Permitted (Y/N): NO
Call Reported By Company Name: Claire Watson
Call RP Company Name: City of Richmond WWTP
Call RP Name: Not reported
Call Property Owner Company Name: Not reported
Call Property Owner Name: Not reported
Site Summary: Not reported

Fips City/County: Richmond City
Status: Not reported
Reference Id: Not reported
IR Number: 2005-P-0314
Associated IR: Not reported
Incident Date: 09/27/2004
Call Received Date: 09/28/2004
Closure Comments: See Site Summary for details
Threat To: Not reported
Terrorism (Y/N): NO
Characterize Incident: Not reported
Incident Type: Water
Incident Subtype: SSO
Materials: Not reported
Effect To Receptor: Not reported
Water Body: Not reported
Low Quantity To Water: Not reported
High Quantity To Water: Not reported
Quantity Units: Not reported
Other Receptors: Not reported
RP Company: Richmond WWTP
RP Name: Kennis Wooten
Property Owner: Not reported
Property Company: Not reported
Duration Of Event (Hrs): Not reported
Impacts: Not reported
Other Impacts: Not reported
Steps Taken: Not reported
Steps Taken Description: Not reported
System Components: Not reported
Other System Components: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RICHMOND WWTW (Continued)

S109382441

Cause Of Event: Not reported
Corrective Action Taken: Not reported
Weather Status: Not reported
Precipitation (Wet): Not reported
Discharge Type: Not reported
Discharge Volume: Not reported
Unknown Discharge (Y/N): NO
Site Name: SEWAGE
Closure Date: 09/27/2004
Orig. Call Incident Description: SEWER LINE BROKEN BY TREALL FALL DUE TO TROPICAL STORM GASTON
Original Call Material Description: Not reported
Original Call Location Description: Sewage-1400 Brander Street-Richmond-VA-23224-Richmond City
Incident Ongoing at time of Call: Not reported
Agencies Notified (Y/N): NO
Other Agencies: Not reported
Permitted (Y/N): NO
Call Reported By Company Name: Kennis Wooten
Call RP Company Name: Richmond WWTP
Call RP Name: Kennis Wooten
Call Property Owner Company Name: Not reported
Call Property Owner Name: Not reported
Site Summary: Not reported

Fips City/County: Richmond City
Status: Not reported
Reference Id: Not reported
IR Number: 2006-P-0197
Associated IR: Not reported
Incident Date: 10/20/2005
Call Received Date: 10/20/2005
Closure Comments: See Site Summary for details
Threat To: Not reported
Terrorism (Y/N): NO
Characterize Incident: Not reported
Incident Type: Water
Incident Subtype: SSO
Materials: Sewage(2500 - 2500 Gallons)
Effect To Receptor: Not reported
Water Body: Almond Creek
Low Quantity To Water: -1
High Quantity To Water: -1
Quantity Units: Gallons
Other Receptors: Not reported
RP Company: Richmond WWTP
RP Name: Not reported
Property Owner: Not reported
Property Company: Not reported
Duration Of Event (Hrs): Not reported
Impacts: Not reported
Other Impacts: Not reported
Steps Taken: Not reported
Steps Taken Description: Not reported
System Components: Not reported
Other System Components: Not reported
Cause Of Event: Not reported
Corrective Action Taken: Not reported
Weather Status: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

RICHMOND WWTW (Continued)

S109382441

Precipitation (Wet):	Not reported
Discharge Type:	Not reported
Discharge Volume:	Not reported
Unknown Discharge (Y/N):	NO
Site Name:	RICHMOND WWTP
Closure Date:	10/20/2005
Orig. Call Incident Description:	A 12IN SEWER CROSSING ALMOND CREEK NEAR THE NEW OSBORNE TURNPIKE BRIDGE WAS BROCKEN AND DISCHARGED INTO ALMOND CREEK
Original Call Material Description:	Not reported
Original Call Location Description:	Richmond WWTP-1400 Brander Street-Richmond-VA-23224-Richmond City
Incident Ongoing at time of Call:	Not reported
Agencies Notified (Y/N):	NO
Other Agencies:	Not reported
Permitted (Y/N):	YES
Call Reported By Company Name:	Kennis Wooten
Call RP Company Name:	Richmond WWTP
Call RP Name:	Not reported
Call Property Owner Company Name:	Not reported
Call Property Owner Name:	Not reported
Site Summary:	DEQ REFERRAL TO CO.
Fips City/County:	Richmond City
Status:	Not reported
Reference Id:	Not reported
IR Number:	2006-P-0342
Associated IR:	Not reported
Incident Date:	01/30/2006
Call Received Date:	01/31/2006
Closure Comments:	See Site Summary for details
Threat To:	Not reported
Terrorism (Y/N):	NO
Characterize Incident:	Not reported
Incident Type:	Water
Incident Subtype:	SSO
Materials:	Oil (Unknown)(3 - 3 Gallons)
Effect To Receptor:	Not reported
Water Body:	Kanawha Canal
Low Quantity To Water:	-1
High Quantity To Water:	-1
Quantity Units:	Gallons
Other Receptors:	Not reported
RP Company:	Richmond WWTP
RP Name:	Not reported
Property Owner:	Not reported
Property Company:	Not reported
Duration Of Event (Hrs):	Not reported
Impacts:	Not reported
Other Impacts:	Not reported
Steps Taken:	Not reported
Steps Taken Description:	Not reported
System Components:	Not reported
Other System Components:	Not reported
Cause Of Event:	Not reported
Corrective Action Taken:	Not reported
Weather Status:	Not reported
Precipitation (Wet):	Not reported
Discharge Type:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RICHMOND WWTW (Continued)

S109382441

Discharge Volume: Not reported
Unknown Discharge (Y/N): NO
Site Name: RICHMOND WWTP
Closure Date: 01/31/2006
Orig. Call Incident Description: BROKEN SERVICE CONNECTION DISCOVERED BY A DPU CONTRACTOR
Original Call Material Description: Not reported
Original Call Location Description: Richmond WWTP-1400 Brander Street-Richmond-VA--Richmond City
Incident Ongoing at time of Call: Not reported
Agencies Notified (Y/N): NO
Other Agencies: Not reported
Permitted (Y/N): YES
Call Reported By Company Name: Kennis Wooten
Call RP Company Name: Richmond WWTP
Call RP Name: Not reported
Call Property Owner Company Name: Not reported
Call Property Owner Name: Not reported
Site Summary: Not reported

Fips City/County: Richmond City
Status: Not reported
Reference Id: Not reported
IR Number: 2010-P-0049
Associated IR: Not reported
Incident Date: 07/28/2009
Call Received Date: 07/28/2009
Closure Comments: See Site Summary for details
Threat To: Not reported
Terrorism (Y/N): NO
Characterize Incident: Not reported
Incident Type: Water
Incident Subtype: SSO
Materials: Sewage(100 - 100 Gallons)
Effect To Receptor: Not reported
Water Body: James River
Low Quantity To Water: 100
High Quantity To Water: 100
Quantity Units: Gallons
Other Receptors: Not reported
RP Company: Not reported
RP Name: Not reported
Property Owner: Not reported
Property Company: Not reported
Duration Of Event (Hrs): Not reported
Impacts: Not reported
Other Impacts: Not reported
Steps Taken: Not reported
Steps Taken Description: Not reported
System Components: Not reported
Other System Components: Not reported
Cause Of Event: Not reported
Corrective Action Taken: Not reported
Weather Status: Not reported
Precipitation (Wet): Not reported
Discharge Type: Not reported
Discharge Volume: Not reported
Unknown Discharge (Y/N): NO
Site Name: RICHMOND WWTP

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RICHMOND WWTW (Continued)

S109382441

Closure Date: 07/28/2009
Orig. Call Incident Description: UNAUTHORIZED DISCHARGE & OVERFLOW
Original Call Material Description: Not reported
Original Call Location Description: Richmond Wwtw-1400 Brander Street-Richmond-VA--Richmond City
Incident Ongoing at time of Call: Not reported
Agencies Notified (Y/N): NO
Other Agencies: Not reported
Permitted (Y/N): NO
Call Reported By Company Name: Gary Hamilton
Call RP Company Name: Not reported
Call RP Name: Not reported
Call Property Owner Company Name: Not reported
Call Property Owner Name: Not reported
Site Summary: Not reported

Fips City/County: Richmond City
Status: Open
Reference Id: 31448
IR Number: 2015-P-1615
Associated IR: Not reported
Incident Date: 08/18/2014
Call Received Date: 01/15/2015
Closure Comments: Not reported
Threat To: Not reported
Terrorism (Y/N): N
Characterize Incident: Unknown
Incident Type: Not reported
Incident Subtype: Not reported
Materials: Not reported
Effect To Receptor: Impacted
Water Body: Shockoe Creek
Low Quantity To Water: Not reported
High Quantity To Water: 800
Quantity Units: Gallons
Other Receptors: Not reported
RP Company: Not reported
RP Name: Not reported
Property Owner: Not reported
Property Company: Not reported
Duration Of Event (Hrs): 0
Impacts: Not reported
Other Impacts: Not reported
Steps Taken: Not reported
Steps Taken Description: Not reported
System Components: Not reported
Other System Components: Not reported
Cause Of Event: Not reported
Corrective Action Taken: Not reported
Weather Status: Not reported
Precipitation (Wet): 0
Discharge Type: Not reported
Discharge Volume: 0
Unknown Discharge (Y/N): N
Site Name: RICHMOND WWTW
Closure Date: Not reported
Orig. Call Incident Description: The 8 sanitary sewer CSO was by passing into Shockoe Creek through CSO outfall 006A. City of Richmond crews jetted through manhole in the

Map ID
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RICHMOND WWTW (Continued)

S109382441

woods and unstopped combined sewer overflow to unstop the 8 sanitary sewer line.

Original Call Material Description: sanitary sewer
Original Call Location Description: 1400 Brander Street Richmond, VA 23224
Incident Ongoing at time of Call: N
Agencies Notified (Y/N): N
Other Agencies: Not reported
Permitted (Y/N): Y
Call Reported By Company Name: Richmond Wastwater Treatment Works
Call RP Company Name: Not reported
Call RP Name: Not reported
Call Property Owner Company Name: Not reported
Call Property Owner Name: Not reported
Site Summary: Not reported

Fips City/County: Richmond City
Status: Closed
Reference Id: 11968
IR Number: 2012-P-1175
Associated IR: Not reported
Incident Date: 10/19/2011
Call Received Date: 11/02/2011
Closure Comments: Tracked via CEDS. VPDES VA0063177 - Richmond WWTP.
Threat To: Not reported
Terrorism (Y/N): N
Characterize Incident: Accidental
Incident Type: * Water
Incident Subtype: * SSO * Water
Materials: * Sewage (350-0 Gallons)
Effect To Receptor: Impacted
Water Body: GRINDALL CREEK/ JAMES RIVER
Low Quantity To Water: 350
High Quantity To Water: Not reported
Quantity Units: Gallons
Other Receptors: Not reported
RP Company: Not reported
RP Name: Not reported
Property Owner: Not reported
Property Company: Not reported
Duration Of Event (Hrs): 2
Impacts: SSO Reached Receiving Waters
Other Impacts: Not reported
Steps Taken: Removed Blockage
Steps Taken Description: UNPLUGED
System Components: Pipe Failure
Other System Components: Not reported
Cause Of Event: GREASE
Corrective Action Taken: LIMED AREA
Weather Status: Dry
Precipitation (Wet): 0
Discharge Type: Untreated
Discharge Volume: 350
Unknown Discharge (Y/N): N
Site Name: RICHMOND WASTEWATER TREATMENT PLANT
Closure Date: 11/30/2011
Orig. Call Incident Description: DISCHARGE RUN OVER INTO OPEN DITCH AND INTO GRINDALL CREEK. THE 8 SANITARY SEWER IN WOODED EASEMENT WAS BLOCKED WITH GREASE AND SLUDGE.

Map ID
Direction
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MAP FINDINGS

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RICHMOND WWTW (Continued)

S109382441

Original Call Material Description: SEWAGE-GREASE & SLUDGE
Original Call Location Description: 4318 SHORT STREET RICHMOND , VA
Incident Ongoing at time of Call: N
Agencies Notified (Y/N): N
Other Agencies: Not reported
Permitted (Y/N): Y
Call Reported By Company Name: RICHMOND WASTEWATER TREATMENT PLANT
Call RP Company Name: Not reported
Call RP Name: Not reported
Call Property Owner Company Name: Not reported
Call Property Owner Name: Not reported
Site Summary: Not reported

Fips City/County: Richmond City
Status: Closed
Reference Id: 5107
IR Number: 2011-P-0202
Associated IR: Not reported
Incident Date: 07/13/2010
Call Received Date: 07/22/2010
Closure Comments: Tracked via CEDS. (VA0063177, City of Richmond WWTP)
Threat To: Not reported
Terrorism (Y/N): N
Characterize Incident: Accidental
Incident Type: * Water
Incident Subtype: * Point Source * Water
Materials: Not reported
Effect To Receptor: Impacted
Water Body: James River
Low Quantity To Water: 1
High Quantity To Water: -1
Quantity Units: ppm
Other Receptors: Not reported
RP Company: Richmond DPU
RP Name: Watson, Clair
Property Owner: Not reported
Property Company: Not reported
Duration Of Event (Hrs): 0
Impacts: Not reported
Other Impacts: Not reported
Steps Taken: Not reported
Steps Taken Description: Not reported
System Components: Not reported
Other System Components: Not reported
Cause Of Event: Not reported
Corrective Action Taken: Not reported
Weather Status: N/A
Precipitation (Wet): 0
Discharge Type: N/A
Discharge Volume: 0
Unknown Discharge (Y/N): N
Site Name: WASTEWATER TREATMENT PLANT
Closure Date: 09/13/2010
Orig. Call Incident Description: CITY OF RICHMOND REPORTING HAZMAT INCIDENT AT THE WASTEWATER TREATMENT PLANT. A RAILCAR IS LEAKING SULFUR DIOXIDE.
Original Call Material Description: SULFUR DIOXIDE
Original Call Location Description: WASTEWATER TREATMENT PLANT 1400 BRANDER STREET RICHMOND, VA.

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RICHMOND WWTW (Continued)

S109382441

Incident Ongoing at time of Call: N
Agencies Notified (Y/N): N
Other Agencies: Not reported
Permitted (Y/N): N
Call Reported By Company Name: CITY OF RICHMOND HAZMAT
Call RP Company Name: Richmond DPU
Call RP Name: Watson, Clair
Call Property Owner Company Name: Not reported
Call Property Owner Name: Not reported
Site Summary: loss of dechlorination at Richmond Treatment Plant

Fips City/County: Richmond City
Status: Closed
Reference Id: 5014
IR Number: 2011-P-0124
Associated IR: Not reported
Incident Date: 06/09/2010
Call Received Date: 07/15/2010
Closure Comments: Entered into and tracked via CEDS. VA0063177 - City of Richmond WWTP.
Threat To: Not reported
Terrorism (Y/N): N
Characterize Incident: Accidental
Incident Type: * Water
Incident Subtype: * CSO * Water
Materials: Not reported
Effect To Receptor: Impacted
Water Body: SHOCKOE CREEK
Low Quantity To Water: Not reported
High Quantity To Water: 8500
Quantity Units: Gallons
Other Receptors: Not reported
RP Company: RICHMOND WASTEWATER TREATMENT WORKS
RP Name: STEIDEL, ROBERT
Property Owner: Not reported
Property Company: Not reported
Duration Of Event (Hrs): 0
Impacts: SSO Reached Receiving Waters
Other Impacts: Not reported
Steps Taken: Removed Blockage
Steps Taken Description: Not reported
System Components: Other
Other System Components: Not reported
Cause Of Event: CONTRACTOR LOST A HOSE INTO SYSTEM
Corrective Action Taken: REMOVED HOSE
Weather Status: Dry
Precipitation (Wet): 0
Discharge Type: Untreated
Discharge Volume: 8500
Unknown Discharge (Y/N): N
Site Name: RICHMOND WASTEWATER TREATMENT WORKS
Closure Date: 07/21/2010
Orig. Call Incident Description: CONTRACTOR, INSITUFORM TECHNOLOGIES, ALLOWED A 400 SECTION OF 6 RUBBER HOSE TO BECOME DISCONNECTED FROM THEIR CIPP LINING PROJECT AND ENTER THE SEWER SYSTEM CAUSING CSO 6-D TO BYPASS INTO SHOCKOE CREEK.

Original Call Material Description: CSO 6-D
Original Call Location Description: RICHMOND WASTEWATER TREATMENT WORKS, RICHMOND, VA.
Incident Ongoing at time of Call: N

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RICHMOND WWTW (Continued)

S109382441

Agencies Notified (Y/N): N
Other Agencies: VIRGINIA HEALTH DEPARTMENT
Permitted (Y/N): Y
Call Reported By Company Name: RICHMOND WASTEWATER TREATMENT WORKS
Call RP Company Name: RICHMOND WASTEWATER TREATMENT WORKS
Call RP Name: STEIDEL, ROBERT
Call Property Owner Company Name: Not reported
Call Property Owner Name: Not reported
Site Summary: Not reported

Fips City/County: Richmond City
Status: Closed
Reference Id: 2970
IR Number: 2010-P-2445
Associated IR: Not reported
Incident Date: 02/23/2010
Call Received Date: 03/08/2010
Closure Comments: Entered into and tracked via CEDS (VA0063177). Permitted facility has not been referred to Enforcement. Consent Order pending.

Threat To: Not reported
Terrorism (Y/N): N
Characterize Incident: Accidental
Incident Type: * Water
Incident Subtype: * CSO * Overflow * Water
Materials: Not reported
Effect To Receptor: Impacted
Water Body: STONY RUN CREEK
Low Quantity To Water: 4000
High Quantity To Water: Not reported
Quantity Units: Gallons
Other Receptors: Not reported
RP Company: RICHMOND WWTW
RP Name: WATSON, CLAIR
Property Owner: Not reported
Property Company: Not reported
Duration Of Event (Hrs): 8
Impacts: SSO Reached Receiving Waters
Other Impacts: Not reported
Steps Taken: Removed Blockage
Steps Taken Description: CITY CONTRACTOR REMOVED ROOT MASS
System Components: Pipe Failure
Other System Components: Not reported
Cause Of Event: SEWER MAIN BROKEN
Corrective Action Taken: Not reported
Weather Status: Dry
Precipitation (Wet): 0
Discharge Type: Untreated
Discharge Volume: 4000
Unknown Discharge (Y/N): N
Site Name: RICHMOND WWTW
Closure Date: 04/21/2010
Orig. Call Incident Description: 30 COMBINATION SEWER MAIN BROCKEN BY ROOT MASS OF FALLEN TREE ALLOWING COMBINED SEWER INTO STONY RUN CREEK.
Original Call Material Description: SEWER
Original Call Location Description: RICHMOND WASTEWATER TREATMENT WORKS 1400 BRANDER STREET RICHMOND, VA 23224.
Incident Ongoing at time of Call: N

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Database(s)

EDR ID Number
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RICHMOND WWTW (Continued)

S109382441

Agencies Notified (Y/N):	N
Other Agencies:	VIRGINIA HEALTH DEPARTMENT
Permitted (Y/N):	Y
Call Reported By Company Name:	RICHMOND WWTW
Call RP Company Name:	RICHMOND WWTW
Call RP Name:	WATSON, CLAIR
Call Property Owner Company Name:	Not reported
Call Property Owner Name:	Not reported
Site Summary:	Not reported
Fips City/County:	Richmond City
Status:	Not reported
Reference Id:	Not reported
IR Number:	2004-P-0624
Associated IR:	Not reported
Incident Date:	03/08/2004
Call Received Date:	03/08/2004
Closure Comments:	See Site Summary for details
Threat To:	Not reported
Terrorism (Y/N):	NO
Characterize Incident:	Not reported
Incident Type:	Water
Incident Subtype:	SSO
Materials:	Sewage(1300 - 1300 Gallons)
Effect To Receptor:	Not reported
Water Body:	Not reported
Low Quantity To Water:	Not reported
High Quantity To Water:	Not reported
Quantity Units:	Not reported
Other Receptors:	Not reported
RP Company:	Richmond WWTP
RP Name:	Claire Watson
Property Owner:	Not reported
Property Company:	Not reported
Duration Of Event (Hrs):	Not reported
Impacts:	Not reported
Other Impacts:	Not reported
Steps Taken:	Not reported
Steps Taken Description:	Not reported
System Components:	Not reported
Other System Components:	Not reported
Cause Of Event:	Not reported
Corrective Action Taken:	Not reported
Weather Status:	Not reported
Precipitation (Wet):	Not reported
Discharge Type:	Not reported
Discharge Volume:	Not reported
Unknown Discharge (Y/N):	NO
Site Name:	RICHMOND WWTP
Closure Date:	03/08/2004
Orig. Call Incident Description:	9 RIVER RD MAIN LINE CLOGGED WITH SLUDGE. LINE CLEARED AND AREA CLEANED AND LINED AND BACK IN SERVICE BY 1300
Original Call Material Description:	SEWAGE
Original Call Location Description:	Richmond WWTP-1400 Brander Street-Richmond-VA-23224-Richmond City
Incident Ongoing at time of Call:	Not reported
Agencies Notified (Y/N):	NO
Other Agencies:	Not reported

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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RICHMOND WWTW (Continued)

S109382441

Permitted (Y/N): YES
Call Reported By Company Name: Claire Watson
Call RP Company Name: Richmond WWTP
Call RP Name: Claire Watson
Call Property Owner Company Name: Not reported
Call Property Owner Name: Not reported
Site Summary: Not reported

Fips City/County: Richmond City
Status: Not reported
Reference Id: Not reported
IR Number: 2004-P-0625
Associated IR: Not reported
Incident Date: 03/12/2004
Call Received Date: 03/12/2004
Closure Comments: See Site Summary for details
Threat To: Not reported
Terrorism (Y/N): NO
Characterize Incident: Not reported
Incident Type: Water
Incident Subtype: SSO
Materials: Sewage(200 - 200 Gallons)
Effect To Receptor: Not reported
Water Body: Not reported
Low Quantity To Water: Not reported
High Quantity To Water: Not reported
Quantity Units: Not reported
Other Receptors: Not reported
RP Company: Richmond WWTP
RP Name: Claire Watson
Property Owner: Not reported
Property Company: Not reported
Duration Of Event (Hrs): Not reported
Impacts: Not reported
Other Impacts: Not reported
Steps Taken: Not reported
Steps Taken Description: Not reported
System Components: Not reported
Other System Components: Not reported
Cause Of Event: Not reported
Corrective Action Taken: Not reported
Weather Status: Not reported
Precipitation (Wet): Not reported
Discharge Type: Not reported
Discharge Volume: Not reported
Unknown Discharge (Y/N): NO
Site Name: RICHMOND WWTW
Closure Date: 03/12/2004
Orig. Call Incident Description: 10301 MALPESTED LANE MAIN LINE BLOCKED IN EASEMENT BEHIND ADDRESS
Original Call Material Description: SEWAGE
Original Call Location Description: Richmond WWTP-1400 Brander Street-Richmond-VA-23224-Richmond City
Incident Ongoing at time of Call: Not reported
Agencies Notified (Y/N): NO
Other Agencies: Not reported
Permitted (Y/N): NO
Call Reported By Company Name: Claire Watson
Call RP Company Name: Richmond WWTP

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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RICHMOND WWTW (Continued)

S109382441

Call RP Name: Claire Watson
Call Property Owner Company Name: Not reported
Call Property Owner Name: Not reported
Site Summary: Not reported

Fips City/County: Richmond City
Status: Not reported
Reference Id: Not reported
IR Number: 2004-P-0628
Associated IR: Not reported
Incident Date: 03/08/2004
Call Received Date: 03/09/2004
Closure Comments: See Site Summary for details
Threat To: Not reported
Terrorism (Y/N): NO
Characterize Incident: Not reported
Incident Type: Water
Incident Subtype: SSO
Materials: Sewage(1200 - 1200 Gallons)
Effect To Receptor: Not reported
Water Body: Not reported
Low Quantity To Water: Not reported
High Quantity To Water: Not reported
Quantity Units: Not reported
Other Receptors: Not reported
RP Company: Richmond WWTP
RP Name: Claire Watson
Property Owner: Not reported
Property Company: Not reported
Duration Of Event (Hrs): Not reported
Impacts: Not reported
Other Impacts: Not reported
Steps Taken: Not reported
Steps Taken Description: Not reported
System Components: Not reported
Other System Components: Not reported
Cause Of Event: Not reported
Corrective Action Taken: Not reported
Weather Status: Not reported
Precipitation (Wet): Not reported
Discharge Type: Not reported
Discharge Volume: Not reported
Unknown Discharge (Y/N): NO
Site Name: RICHMOND WWTP
Closure Date: 03/09/2004
Orig. Call Incident Description: 3500 EAST RICHMOND RD X BRELL STREET MAIN LINE CLOGGED IN THE EASEMENT BEHIND ABANDONED APT. COMPLEX. LINE CLEARED AND BACK IN SERVICE AT 1900

Original Call Material Description: SEWAGE
Original Call Location Description: Richmond WWTP-1400 Brander Street-Richmond-VA--Richmond City
Incident Ongoing at time of Call: Not reported
Agencies Notified (Y/N): NO
Other Agencies: Not reported
Permitted (Y/N): NO
Call Reported By Company Name: Claire Watson
Call RP Company Name: Richmond WWTP
Call RP Name: Claire Watson

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Database(s)

EDR ID Number
EPA ID Number

RICHMOND WWTW (Continued)

S109382441

Call Property Owner Company Name: Not reported
Call Property Owner Name: Not reported
Site Summary: Not reported

Fips City/County: Richmond City
Status: Closed
Reference Id: 20141
IR Number: 2014-P-0061
Associated IR: Not reported
Incident Date: 06/11/2013
Call Received Date: 07/05/2013
Closure Comments: power rerouted 1 hr later, city looking into automating the alternate power source instead of manual switch.

Threat To: Not reported
Terrorism (Y/N): N
Characterize Incident: Unknown
Incident Type: * Water
Incident Subtype: * SSO * Water
Materials: * Sewage (-1-1 Gallons)
Effect To Receptor: Not reported
Water Body: James River
Low Quantity To Water: Not reported
High Quantity To Water: Not reported
Quantity Units: Not reported
Other Receptors: Not reported
RP Company: Not reported
RP Name: Not reported
Property Owner: Not reported
Property Company: Not reported
Duration Of Event (Hrs): 0
Impacts: SSO Reached Receiving Waters
Other Impacts: Not reported
Steps Taken: Other
Steps Taken Description: power source rerouted to Maury St. Line and city looking into automating alternate power switch.

System Components: Not reported
Other System Components: Not reported
Cause Of Event: power outage from tree on power line
Corrective Action Taken: Not reported
Weather Status: Wet
Precipitation (Wet): 0
Discharge Type: Untreated
Discharge Volume: 0
Unknown Discharge (Y/N): Y
Site Name: SSO - RICHMOND WWTP AND SHOCKOE RETENTION BASIN
Closure Date: 07/05/2013
Orig. Call Incident Description: SSO - Richmond WWTP and Shockoe Retention basin during 1 hr power outage

Original Call Material Description: sewage
Original Call Location Description: Richmond WWTP, 1400 Brander Street, Richmond, VA 23224
Incident Ongoing at time of Call: Not reported
Agencies Notified (Y/N): Y
Other Agencies: VDH
Permitted (Y/N): Y
Call Reported By Company Name: Richmond DPU
Call RP Company Name: Not reported
Call RP Name: Not reported

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RICHMOND WWTW (Continued)

S109382441

Call Property Owner Company Name: Not reported
Call Property Owner Name: Not reported
Site Summary: At 2139 hrs 6/11/13 a tree fell on the main Brander St. power line to the Richmond WWTP and cut power. Power rerouted through Maury St feed line just before 2230. Outfall 001 flow dropped to a trickle. Storm event inflows occurring so probable CSO at Shockoe Retention basin from this event, volume unknown. No floating solids or visible foam in trickle outflow.

SPILLS PD:

Region: PD
ID: 2862
Incident Response #: 2005-P-0056
Date In: 7/16/2004
Time In: 9:30:00 AM
Reported By Name: HUBERT BENTHALL
Reported By Phone #: 804-646-8963
Reported By Affiliation/Addr: RICHMOND
Facility Permitted: False
Site Contact: HUBERT BENTHALL
Site Phone: 804-646-8963
Responsible Party Name: RICHMOND WWTP
RP Contact: HUBERT BENTHALL
RP Address: 1400 BRANDER ST
RP City,St,Zip: RICHMOND, VA
RP Phone: 804-646-8963
Owner Name: Not reported
Owner Contact: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Owner Phone: Not reported
Incident Date: 7/15/2004
Incident Time: 3:22:00 PM
Petroleum: False
Solid Waste: False
Hazardous Waste: False
Water: True
Wetlands: False
Odor: False
Air Reg/permit Number: False
Fish Killed: False
Tires: False
Sewage: False
Incident Summary: RESIDENTIAL GREASE CLOGGED THE SEWER LINE AT FAIRFIELD AND PHAUP STREET
Violation: Yes
Compliance: Yes
Material Released: SEWAGE
Possible Receptors: Not reported
Quantity Released: 500
Unit: GALS
Quantity In Water: Not reported
Receiving Waters: STONY RUN
River Basin: Not reported
Topo Map Id: Not reported
Inspection Date: Not reported
Call Date: Not reported

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

RICHMOND WWTW (Continued)

S109382441

No Action Required: 7/15/2004
Inspector: SM
Response Due: Not reported
Response Received: Not reported
Inspect Comments: Not reported
Date Closed: 7/15/2004
Date Ref Air C/m: Not reported
Air Reg/permit Number: Not reported
Date Ref Waste C/m: Not reported
EPA Id Or Permit Number: Not reported
Date Ref Water C/m: Not reported
Water Permit Number: Not reported
Date Ref Remediation: Not reported
Remediation Pc Number: Not reported
Date Ref Enforcement: Not reported
NOV Number: Not reported

CEDS:

Facility ID: VA0063177
Class: Active
Minor/Major: Major
Industrial: Municipal
Permit Date: 06/30/2018
Outfall Num: 026
Lat/Long (dms): 37 31 27 / 77 23 58
Event Desc: Permit expires
Project Status: Not reported

Facility ID: VA0063177
Class: Active
Minor/Major: Major
Industrial: Municipal
Permit Date: 06/30/2018
Outfall Num: 004
Lat/Long (dms): 37 31 23 / 77 25 0
Event Desc: Permit expires
Project Status: Not reported

Facility ID: VA0063177
Class: Active
Minor/Major: Major
Industrial: Municipal
Permit Date: 06/30/2018
Outfall Num: 003
Lat/Long (dms): 37 31 14 / 77 25 1
Event Desc: Permit expires
Project Status: Not reported

Facility ID: VA0063177
Class: Active
Minor/Major: Major
Industrial: Municipal
Permit Date: 06/30/2018
Outfall Num: 002
Lat/Long (dms): 37 31 5 / 77 25 0
Event Desc: Permit expires
Project Status: Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RICHMOND WWTW (Continued)

S109382441

Facility ID: VA0063177
Class: Active
Minor/Major: Major
Industrial: Municipal
Permit Date: 06/30/2018
Outfall Num: 001
Lat/Long (dms): 37 31 2 / 77 25 6
Event Desc: Permit expires
Project Status: Not reported

Facility ID: VA0063177
Class: Active
Minor/Major: Major
Industrial: Municipal
Permit Date: 06/30/2018
Outfall Num: 006
Lat/Long (dms): 37 31 53 / 77 25 56
Event Desc: Permit expires
Project Status: Not reported

Facility ID: VA0063177
Class: Active
Minor/Major: Major
Industrial: Municipal
Permit Date: 06/30/2018
Outfall Num: 007
Lat/Long (dms): 37 32 3 / 77 26 12
Event Desc: Permit expires
Project Status: Not reported

Facility ID: VA0063177
Class: Active
Minor/Major: Major
Industrial: Municipal
Permit Date: 06/30/2018
Outfall Num: S01
Lat/Long (dms): 37 31 1 / 77 25 6
Event Desc: Permit expires
Project Status: Not reported

Facility ID: VA0063177
Class: Active
Minor/Major: Major
Industrial: Municipal
Permit Date: 06/30/2018
Outfall Num: 028
Lat/Long (dms): 37 31 18 / 77 24 39
Event Desc: Permit expires
Project Status: Not reported

Facility ID: VA0063177
Class: Active
Minor/Major: Major
Industrial: Municipal
Permit Date: 06/30/2018
Outfall Num: 031
Lat/Long (dms): 37 32 19 / 77 23 23

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RICHMOND WWTW (Continued)

S109382441

Event Desc: Permit expires
Project Status: Not reported

Facility ID: VA0063177
Class: Active
Minor/Major: Major
Industrial: Municipal
Permit Date: 06/30/2018
Outfall Num: 033
Lat/Long (dms): 37 32 15 / 77 28 35
Event Desc: Permit expires
Project Status: Not reported

Facility ID: VA0063177
Class: Active
Minor/Major: Major
Industrial: Municipal
Permit Date: 06/30/2018
Outfall Num: 034
Lat/Long (dms): 37 31 51 / 77 25 40
Event Desc: Permit expires
Project Status: Not reported

Facility ID: VA0063177
Class: Active
Minor/Major: Major
Industrial: Municipal
Permit Date: 06/30/2018
Outfall Num: 035
Lat/Long (dms): 37 31 40 / 77 25 21
Event Desc: Permit expires
Project Status: Not reported

Facility ID: VA0063177
Class: Active
Minor/Major: Major
Industrial: Municipal
Permit Date: 06/30/2018
Outfall Num: 039
Lat/Long (dms): 37 31 22 / 77 24 15
Event Desc: Permit expires
Project Status: Not reported

Facility ID: VA0063177
Class: Active
Minor/Major: Major
Industrial: Municipal
Permit Date: 06/30/2018
Outfall Num: 040
Lat/Long (dms): 37 31 42 / 77 26 27
Event Desc: Permit expires
Project Status: Not reported

Facility ID: VA0063177
Class: Active
Minor/Major: Major
Industrial: Municipal

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

RICHMOND WWTW (Continued)

S109382441

Permit Date: 06/30/2018
Outfall Num: 005
Lat/Long (dms): 37 31 32 / 77 25 15
Event Desc: Permit expires
Project Status: Not reported

Facility ID: VA0063177
Class: Active
Minor/Major: Major
Industrial: Municipal
Permit Date: 06/30/2018
Outfall Num: 009
Lat/Long (dms): 37 32 7 / 77 26 35
Event Desc: Permit expires
Project Status: Not reported

Facility ID: VA0063177
Class: Active
Minor/Major: Major
Industrial: Municipal
Permit Date: 06/30/2018
Outfall Num: 010
Lat/Long (dms): 37 32 8 / 77 26 41
Event Desc: Permit expires
Project Status: Not reported

Facility ID: VA0063177
Class: Active
Minor/Major: Major
Industrial: Municipal
Permit Date: 06/30/2018
Outfall Num: 011
Lat/Long (dms): 37 32 2 / 77 27 15
Event Desc: Permit expires
Project Status: Not reported

Facility ID: VA0063177
Class: Active
Minor/Major: Major
Industrial: Municipal
Permit Date: 06/30/2018
Outfall Num: 012
Lat/Long (dms): 37 30 25 / 77 23 54
Event Desc: Permit expires
Project Status: Not reported

Facility ID: VA0063177
Class: Active
Minor/Major: Major
Industrial: Municipal
Permit Date: 06/30/2018
Outfall Num: 013
Lat/Long (dms): 37 31 31 / 77 25 45
Event Desc: Permit expires
Project Status: Not reported

Facility ID: VA0063177

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Database(s)

EDR ID Number
EPA ID Number

RICHMOND WWTW (Continued)

S109382441

Class: Active
Minor/Major: Major
Industrial: Municipal
Permit Date: 06/30/2018
Outfall Num: 014
Lat/Long (dms): 37 31 32 / 77 26 0
Event Desc: Permit expires
Project Status: Not reported

Facility ID: VA0063177
Class: Active
Minor/Major: Major
Industrial: Municipal
Permit Date: 06/30/2018
Outfall Num: 015
Lat/Long (dms): 37 31 30 / 77 27 27
Event Desc: Permit expires
Project Status: Not reported

Facility ID: VA0063177
Class: Active
Minor/Major: Major
Industrial: Municipal
Permit Date: 06/30/2018
Outfall Num: 016
Lat/Long (dms): 37 31 28 / 77 27 42
Event Desc: Permit expires
Project Status: Not reported

Facility ID: VA0063177
Class: Active
Minor/Major: Major
Industrial: Municipal
Permit Date: 06/30/2018
Outfall Num: 017
Lat/Long (dms): 37 31 39 / 77 28 12
Event Desc: Permit expires
Project Status: Not reported

Facility ID: VA0063177
Class: Active
Minor/Major: Major
Industrial: Municipal
Permit Date: 06/30/2018
Outfall Num: 021
Lat/Long (dms): 37 31 22 / 77 25 21
Event Desc: Permit expires
Project Status: Not reported

Facility ID: VA0063177
Class: Active
Minor/Major: Major
Industrial: Municipal
Permit Date: 06/30/2018
Outfall Num: 018
Lat/Long (dms): 37 31 33 / 77 28 28
Event Desc: Permit expires

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RICHMOND WWTW (Continued)

S109382441

Project Status: Not reported

Facility ID: VA0063177
Class: Active
Minor/Major: Major
Industrial: Municipal
Permit Date: 06/30/2018
Outfall Num: 019
Lat/Long (dms): 37 31 51 / 77 28 33
Event Desc: Permit expires
Project Status: Not reported

Facility ID: VA0063177
Class: Active
Minor/Major: Major
Industrial: Municipal
Permit Date: 06/30/2018
Outfall Num: 020
Lat/Long (dms): 37 32 27 / 77 29 42
Event Desc: Permit expires
Project Status: Not reported

Facility ID: VA0063177
Class: Active
Minor/Major: Major
Industrial: Municipal
Permit Date: 06/30/2018
Outfall Num: 024
Lat/Long (dms): 37 31 21 / 77 24 15
Event Desc: Permit expires
Project Status: Not reported

Facility ID: VA0063177
Class: Active
Minor/Major: Major
Industrial: Municipal
Permit Date: 06/30/2018
Outfall Num: 025
Lat/Long (dms): 37 31 42 / 77 23 39
Event Desc: Permit expires
Project Status: Not reported

38
South
1/4-1/2
0.443 mi.
2340 ft.

ROCKETTS-HENRICO PHASE 2A/POWER PLANT
251 ROCKETTS WAYS
RICHMOND, VA 23223

VA ENG CONTROLS
VA INST CONTROL
VA VCP

S109329908
N/A

Relative:
Higher

ENG CONTROLS:
Facility ID: VRP00517
Corrective Action Desc: Limited Removal, Hardscape,
Other Condition of Issuance: True
Notes: Not reported

Actual:
46 ft.

INST CONTROL:
Facility ID: VRP00517
Corrective Action Desc: Limited Removal, Hardscape,

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROCKETTS-HENRICO PHASE 2A/POWER PLANT (Continued)

S109329908

Ground Water Use Restriction: True
Res. Use Restriction: False
Excavation Restriction: True
Other Condition of Issuance: True
Notes: Not reported

VRP:

Facility ID: VRP00517
Site Status: Certificate Issued
Site Status 2: Certificate Recorded
DEQ Region: Piedmont
Size in Acres: 3.7000
Site Type: Industry
Corrective Action Desc: Limited Removal, Hardscape,
Owner Name: Not reported
Owner Contact: Not reported
Owner Address: Not reported
Owner Phone: Not reported
Operator Name: Not reported
Operator Owner: Not reported
Operator Phone: Not reported
Participant Name: Not reported
Relationship to Site: Not reported
Participant Contact: Not reported
Participant Phone: Not reported
Participant Title: Not reported
Participant Affiliation: Not reported
Participant Address: Not reported
Participant City,St,Zip: Not reported
Additional Parts: Not reported
Participation Notes: This is a parcel of the site that eligibility established under VRP00315
Participant Rep/Contractor: Not reported
Participant Rep/Contractor Phone: Not reported
Participant Rep/Contractor Title: Not reported
Participant Rep/Contractor Affiliation: Not reported
Participant Rep/Contractor Address: Not reported
Participant Rep/Contractor City,St,Zip: Not reported
Metal Contaminants Present in Soil: Not reported
Organic Contaminants Present in Soil: Not reported
Metal Contaminants Present in GW: Not reported
Organic Contaminants Present GW: Not reported
DEQ Staff Case Manager's Initials: KLG
Cleanup Standards: Teir III
No Further VRP Action Date: Not reported
Date Participant Notified of NFA: Not reported
Certification Date: 10/08/2008
Deed Received Date: 11/11/2008
Terms of NFA Determination: Not reported
Date VRP Eligibility Declared by Participant: 01/04/2002
Date VRP Eligibility Determined by DEQ Region: Not reported
Dt Office Of Waste Permitting Verified Site Eligblty: Not reported
Date VRP Eligibility Determined by VRP: Not reported
Date Signed Agreement Submitted By Participant: Not reported
Date Agreement Executed by DEQ: Not reported
Registration Fee Amount Submitted by Participant: 5000
Date Registration Fee Submitted by Participant: 06/29/2008

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

ROCKETTS-HENRICO PHASE 2A/POWER PLANT (Continued)

S109329908

Site Characterization Document Number: Not reported
 DEQ Concurrence with Site Characterization Date: Not reported
 Remedial Action Work Plan Document Number: Not reported
 DEQ Concurs with Remedial Action Work Plan Date: Not reported
 Completion Report Document Number: Not reported
 DEQ Concurs with Completion Report Date: Not reported
 Submittal Date for Document Number 1: Not reported
 Title of Submitted Document Number 1: Not reported
 Submittal Date for Document Number 2: Not reported
 Title of Submitted Document Number 2: Not reported
 Submittal Date for Document Number 3: Not reported
 Title of Submitted Document Number 3: Not reported
 Submittal Date for Document Number 4: Not reported
 Title of Submitted Document Number 4: Not reported
 Submittal Date for Document Number 5: Not reported
 Title of Submitted Document Number 5: Not reported
 Submittal Date for Document Number 6: Not reported
 Title of Submitted Document Number 6: Not reported
 Submittal Date for Document Number 7: Not reported
 Title of Submitted Document Number 7: Not reported
 Submittal Date for Document Number 8: Not reported
 Title of Submitted Document Number 8: Not reported
 DEQ Response Incident ID Number: Not reported
 EPA CERCLIS ID: Not reported
 EPA RCRA ID NUMBER: Not reported
 DEQ Pollution Complaint Number: Not reported
 Latest Action Relative To Site: Not reported
 Latest Action Relative To Site Date: Not reported
 Next VRP Step Needed Relating To Site: Not reported
 Pending Since: Not reported
 Date Next Step Should Be Completed: Not reported
 Lat/Long: 0 / 0
 Brownfield Tax Incentive: Not reported
 Ground Water Use Restriction: True
 Res. User Restriction: False
 Excavation Restriction: True
 Unrestricted: False
 Other Condition of Issuance: True
 GPS Lat: 0
 GPS Long: 0
 GPS Desc: Not reported
 Notes: Not reported

39
 SSE
 1/4-1/2
 0.467 mi.
 2466 ft.

**REYNOLDS EQUIPMENT CTR
 509 GODDIN ST
 RICHMOND, VA 23231**

**VA LUST S108060934
 VA LTANKS N/A**

**Relative:
 Higher**

LUST REG PD:
 Region: PD
Status: Closed
 Pollution Complaint #: 19921501
 Reg Code: PRO

**Actual:
 50 ft.**

LTANKS:
 Region: PRO

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REYNOLDS EQUIPMENT CTR (Continued)

S108060934

CEDS Facility Id: 200000170113
Case Status: **Closed**
Pollution Complaint #: 19921501
Reported: 03/02/1992

H40
North
1/4-1/2
0.469 mi.
2477 ft.

VOGELEY KEVIN PROPERTY
416 N 28TH ST
RICHMOND, VA 23223

VA LUST **S112154224**
VA LTANKS **N/A**

Site 1 of 2 in cluster H

Relative:
Higher

LUST REG PD:
Region: PD
Status: **Closed**
Pollution Complaint #: 20124694
Reg Code: PRO

Actual:
158 ft.

LTANKS:
Region: PRO
CEDS Facility Id: 200000857695
Case Status: **Closed**
Pollution Complaint #: 20124694
Reported: 06/07/2012

H41
North
1/4-1/2
0.483 mi.
2551 ft.

MCCARTHY JIMMY
2720 E MARSHALL ST
RICHMOND, VA 23219

VA LUST **S104658997**
VA LTANKS **N/A**

Site 2 of 2 in cluster H

Relative:
Higher

LUST REG PD:
Region: PD
Status: **Closed**
Pollution Complaint #: 19900702
Reg Code: PRO

Actual:
160 ft.

LTANKS:
Region: PRO
CEDS Facility Id: 200000174813
Case Status: **Closed**
Pollution Complaint #: 19900702
Reported: 12/07/1989

42
South
1/4-1/2
0.497 mi.
2625 ft.

BMG METALS INCORPORATED
5100 OLD OSBORNE TPKE
RICHMOND, VA 23231

VA LUST **U003688141**
VA LTANKS **N/A**
VA UST

Relative:
Higher

LUST REG PD:
Region: PD
Status: **Closed**
Pollution Complaint #: 19932318
Reg Code: PRO

Actual:
47 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BMG METALS INCORPORATED (Continued)

U003688141

Region: PD
Status: Closed
Pollution Complaint #: 19921545
Reg Code: PRO

LTANKS:

Region: PRO
CEDS Facility Id: 200000166699
Case Status: Closed
Pollution Complaint #: 19932318
Reported: 05/19/1993

Facility:

Facility Id: 4025420
Facility Type: INDUSTRIAL
CEDS Facility ID: 200000166699

Owner:

Owner Id: 37004
Owner Name: BMG Metals Inc
Owner Address: 5100 Old OsborneTpke
Owner Address2: Not reported
Owner City, State, Zip: Richmond, VA 23231
UST Status: Reg
AST Status: Not reported

UST:

Facility ID: 4025420
Federally Regulated: Yes

Tank Number: R1
Tank Capacity: 2500
Tank Contents: DIESEL
Tank Status: REM FROM GRD
Tank Type: UST

Tank Material:

Install Date: 01-OCT-1980
Tank Materials: Bare Steel Yes
Tank Materials: Cath Protect Steel No
Tank Materials: Epoxy Steel No
Tank Materials: Fiberglass No
Tank Materials: Concrete No
Tank Materials: Composite No
Tank Materials: Double Walled No
Tank Materials: Lined Interior No
Tank Materials: Excav Liner No
Tank Materials: Insulated Tank Jacket No
Tank Materials: Repaired No
Tank Materials: Unknown No
Tank Materials: Other No
Tank Materials: Other Note Not reported

Release Detection:

Tank Release Detection: Leak Deferred No
Tank Release Detection: Manual Gauge No

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BMG METALS INCORPORATED (Continued)

U003688141

Tank Release Detection: Auto Gauge	No
Tank Release Detection: Tank Tightness	No
Tank Release Detection: Vapor Monitor	No
Tank Release Detection: Inventory	No
Tank Release Detection: Stat Invent Recon	No
Tank Release Detection: Spill Install	No
Tank Release Detection: Overfill Install	No
Tank Release Detection: Groundwater	No
Tank Release Detection: Int Sec Containment	No
Tank Release Detection: Int Double Walled	No
Tank Release Detection: Other Method	No
Tank Release Detection: Other Note	Not reported
Pipe Release Detection: Leak Deferred	Not reported
Pipe Release Detection: Autoleak	No
Pipe Release Detection: Line Tightness	No
Pipe Release Detection: Stat Invent Recon	No
Pipe Release Detection: Groundwater	No
Pipe Release Detection: Int Sec Containment	No
Pipe Release Det: Interior Double Walled	No
Pipe Release Detection: Other Method	No
Pipe Release Detection: Other Note	Not reported
Pipe Type:	VALVE: SUCTION
Pipe Materials: Bare Steel	Yes
Pipe Materials: Galvanized Steel	No
Pipe Materials: Copper	No
Pipe Materials: Fiberglass	No
Pipe Materials: Cath Protect	No
Pipe Materials: Double Walled	No
Pipe Materials: Sec Containment	No
Pipe Materials: Repaired	No
Pipe Materials: Unknown	No
Pipe Materials: Other	No
Pipe Materials: Other Note	Not reported

43
 SSE
 1/2-1
 0.795 mi.
 4200 ft.

**5300 HATCHER ST
 RICHMOND, VA 23231**

**CERC-NFRAP 1000150844
 CORRACTS VAD003112364
 RCRA NonGen / NLR
 FINDS
 NY MANIFEST
 LEAD SMELTERS
 PRP**

**Relative:
 Higher**

CERC-NFRAP:
 Site ID: 0302508
 Federal Facility: Not a Federal Facility
 NPL Status: Not on the NPL
 Non NPL Status: Referred to Removal - NFRAP

**Actual:
 71 ft.**

CERCLIS-NFRAP Site Contact Details:
 Contact Sequence ID: 13302721.00000
 Person ID: 13002059.00000

CERCLIS-NFRAP Assessment History:
 Action: DISCOVERY
 Date Started: / /

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

1000150844

Date Completed: 02/01/85
Priority Level: Not reported

Action: ISSUE REQUEST LETTERS (104E)
Date Started: / /
Date Completed: 03/02/92
Priority Level: Not reported

Action: ADMINISTRATIVE RECORDS
Date Started: 12/07/94
Date Completed: 12/07/94
Priority Level: Admin Record Compiled for a Removal Event

Action: INFORMATION REPOSITORY ESTABLISHED
Date Started: / /
Date Completed: 12/07/94
Priority Level: Not reported

Action: REMOVAL ASSESSMENT
Date Started: 04/12/93
Date Completed: 01/11/94
Priority Level: Not reported

Action: UNILATERAL ADMIN ORDER
Date Started: / /
Date Completed: 11/14/94
Priority Level: Not reported

Action: ARCHIVE SITE
Date Started: / /
Date Completed: 03/16/10
Priority Level: Not reported

Action: SITE INSPECTION
Date Started: / /
Date Completed: 08/26/88
Priority Level: Referred to Removal, no further Rmdl Asmt

Action: COMMUNITY INVOLVEMENT
Date Started: 01/26/05
Date Completed: 01/26/05
Priority Level: Not reported

Action: ISSUE REQUEST LETTERS (104E)
Date Started: / /
Date Completed: 03/30/94
Priority Level: Not reported

Action: REMOVAL
Date Started: 01/08/94
Date Completed: 09/30/02
Priority Level: Cleaned up

Action: PRELIMINARY ASSESSMENT
Date Started: 04/30/85
Date Completed: 09/30/85
Priority Level: Low priority for further assessment

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

1000150844

CORRACTS:

EPA ID: VAD003112364
EPA Region: 03
Area Name: ENTIRE FACILITY
Actual Date: 19960326
Action: CA210SF - CA Responsibility Referred To A Non-RCRA Federal Authority,
Corrective Action at the facility or area referred to CERCLA
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

RCRA NonGen / NLR:

Date form received by agency: 10/07/2013
Facility name: Not reported
Facility address: 5300 HATCHER ST
RICHMOND, VA 23231
EPA ID: VAD003112364
Mailing address: PO BOX 573
RICHMOND, VA 23205
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: Not reported
Contact email: Not reported
EPA Region: Not reported
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:

Date form received by agency: 09/10/1999
Site name: HYMAN VIENER & SONS
Classification: Not a generator, verified
Date form received by agency: 11/10/1980
Site name: HYMAN VIENER & SONS
Classification: Not a generator, verified

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

1000150844

. Waste code: K052
. Waste name: TANK BOTTOMS (LEADED) FROM THE PETROLEUM REFINING INDUSTRY.

. Waste code: K069
. Waste name: EMISSION CONTROL DUST/SLUDGE FROM SECONDARY LEAD SMELTING.

Date form received by agency: 08/18/1980
Site name: HYMAN VIENER & SONS
Classification: Large Quantity Generator

. Waste code: K052
. Waste name: TANK BOTTOMS (LEADED) FROM THE PETROLEUM REFINING INDUSTRY.

. Waste code: K069
. Waste name: EMISSION CONTROL DUST/SLUDGE FROM SECONDARY LEAD SMELTING.

Corrective Action Summary:

Event date: 03/26/1996
Event: CA Responsibility Referred To A Non-RCRA Federal Authority, Corrective Action at the facility or area referred to CERCLA.

Violation Status: No violations found

FINDS:

Registry ID: 110005218255

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:

EPA ID: VAD003112364
Country: USA
Location Address 1: 5300 HATCHER ST
Location Address 2: Not reported
Location City: RICHMOND
Location State: VA
Location Zip Code: Not reported
Location Zip Code 4: Not reported

Mailing Info:

Name: USEPA REGION 3 - HYMAN-VIENER SITE
Contact: CHRISTINE WAGNER
Address: 841 CHESTNUT ST
City/State/Zip: PHILADELPHIA, PA 19107
Country: USA
Phone: 304-236-0332

Manifest:

Document ID: NYB8773641

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

1000150844

Manifest Status: Completed copy
Trans1 State ID: 22869HNY
Trans2 State ID: Not reported
Generator Ship Date: 03/03/1997
Trans1 Recv Date: 03/03/1997
Trans2 Recv Date: / /
TSD Site Recv Date: 03/04/1997
Part A Recv Date: 03/19/1997
Part B Recv Date: 03/19/1997
Generator EPA ID: VAD003112364
Trans1 EPA ID: NYD051809952
Trans2 EPA ID: Not reported
TSDF ID: NYD049836679
Waste Code: D008 - LEAD 5.0 MG/L TCLP
Quantity: 45600
Units: P - Pounds
Number of Containers: 001
Container Type: DT - Dump trucks
Handling Method: L Landfill.
Specific Gravity: 100
Year: 1997

Document ID: NYB8773317
Manifest Status: Completed copy
Trans1 State ID: 80362BNY
Trans2 State ID: Not reported
Generator Ship Date: 03/04/1997
Trans1 Recv Date: 03/04/1997
Trans2 Recv Date: / /
TSD Site Recv Date: 03/05/1997
Part A Recv Date: 03/19/1997
Part B Recv Date: 03/19/1997
Generator EPA ID: VAD003112364
Trans1 EPA ID: NYD982792814
Trans2 EPA ID: Not reported
TSDF ID: NYD049836679
Waste Code: D008 - LEAD 5.0 MG/L TCLP
Quantity: 48060
Units: P - Pounds
Number of Containers: 001
Container Type: DT - Dump trucks
Handling Method: L Landfill.
Specific Gravity: 100
Year: 1997

Document ID: NYB8773407
Manifest Status: Completed copy
Trans1 State ID: 68612K
Trans2 State ID: Not reported
Generator Ship Date: 03/05/1997
Trans1 Recv Date: 03/05/1997
Trans2 Recv Date: / /
TSD Site Recv Date: 03/06/1997
Part A Recv Date: 03/19/1997
Part B Recv Date: 03/19/1997

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

1000150844

Generator EPA ID: VAD003112364
Trans1 EPA ID: NYD097644801
Trans2 EPA ID: Not reported
TSDF ID: NYD049836679
Waste Code: D008 - LEAD 5.0 MG/L TCLP
Quantity: 49060
Units: P - Pounds
Number of Containers: 001
Container Type: DT - Dump trucks
Handling Method: L Landfill.
Specific Gravity: 100
Year: 1997

Document ID: NYB8773677
Manifest Status: Completed copy
Trans1 State ID: 43473ENY
Trans2 State ID: Not reported
Generator Ship Date: 03/03/1997
Trans1 Recv Date: 03/03/1997
Trans2 Recv Date: / /
TSD Site Recv Date: 03/04/1997
Part A Recv Date: 03/19/1997
Part B Recv Date: 03/19/1997
Generator EPA ID: VAD003112364
Trans1 EPA ID: NYD982792814
Trans2 EPA ID: Not reported
TSDF ID: NYD049836679
Waste Code: D008 - LEAD 5.0 MG/L TCLP
Quantity: 44440
Units: P - Pounds
Number of Containers: 001
Container Type: DT - Dump trucks
Handling Method: L Landfill.
Specific Gravity: 100
Year: 1997

Document ID: NYB8773371
Manifest Status: Completed copy
Trans1 State ID: 2216AZNY
Trans2 State ID: Not reported
Generator Ship Date: 03/04/1997
Trans1 Recv Date: 03/04/1997
Trans2 Recv Date: / /
TSD Site Recv Date: 03/05/1997
Part A Recv Date: 03/19/1997
Part B Recv Date: 03/19/1997
Generator EPA ID: VAD003112364
Trans1 EPA ID: NYD046765574
Trans2 EPA ID: Not reported
TSDF ID: NYD049836679
Waste Code: D008 - LEAD 5.0 MG/L TCLP
Quantity: 45620
Units: P - Pounds
Number of Containers: 001
Container Type: DT - Dump trucks

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

1000150844

Handling Method: L Landfill.
Specific Gravity: 100
Year: 1997

Document ID: NYB8773389
Manifest Status: Completed copy
Trans1 State ID: 60421ZNY
Trans2 State ID: Not reported
Generator Ship Date: 03/04/1997
Trans1 Recv Date: 03/04/1997
Trans2 Recv Date: / /
TSD Site Recv Date: 03/06/1997
Part A Recv Date: 03/19/1997
Part B Recv Date: 03/19/1997
Generator EPA ID: VAD003112364
Trans1 EPA ID: NYD046765574
Trans2 EPA ID: Not reported
TSDF ID: NYD049836679
Waste Code: D008 - LEAD 5.0 MG/L TCLP
Quantity: 47340
Units: P - Pounds
Number of Containers: 001
Container Type: DT - Dump trucks
Handling Method: L Landfill.
Specific Gravity: 100
Year: 1997

Document ID: NYB8773398
Manifest Status: Completed copy
Trans1 State ID: TH80270PA
Trans2 State ID: Not reported
Generator Ship Date: 03/05/1997
Trans1 Recv Date: 03/05/1997
Trans2 Recv Date: / /
TSD Site Recv Date: 03/06/1997
Part A Recv Date: 03/19/1997
Part B Recv Date: 03/19/1997
Generator EPA ID: VAD003112364
Trans1 EPA ID: NYD097644801
Trans2 EPA ID: Not reported
TSDF ID: NYD049836679
Waste Code: D008 - LEAD 5.0 MG/L TCLP
Quantity: 41560
Units: P - Pounds
Number of Containers: 001
Container Type: DT - Dump trucks
Handling Method: L Landfill.
Specific Gravity: 100
Year: 1997

Document ID: NYB8773452
Manifest Status: Completed copy
Trans1 State ID: 35687CNY
Trans2 State ID: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

1000150844

Generator Ship Date: 03/05/1997
Trans1 Recv Date: 03/05/1997
Trans2 Recv Date: / /
TSD Site Recv Date: 03/06/1997
Part A Recv Date: 03/19/1997
Part B Recv Date: 03/19/1997
Generator EPA ID: VAD003112364
Trans1 EPA ID: NYD046765574
Trans2 EPA ID: Not reported
TSDF ID: NYD049836679
Waste Code: D008 - LEAD 5.0 MG/L TCLP
Quantity: 37240
Units: P - Pounds
Number of Containers: 001
Container Type: DT - Dump trucks
Handling Method: L Landfill.
Specific Gravity: 100
Year: 1997

Document ID: NYB8773623
Manifest Status: Completed copy
Trans1 State ID: 67277KNY
Trans2 State ID: Not reported
Generator Ship Date: 03/04/1997
Trans1 Recv Date: 03/04/1997
Trans2 Recv Date: / /
TSD Site Recv Date: 03/05/1997
Part A Recv Date: 03/19/1997
Part B Recv Date: 03/19/1997
Generator EPA ID: VAD003112364
Trans1 EPA ID: NYD000688671
Trans2 EPA ID: Not reported
TSDF ID: NYD049836679
Waste Code: D008 - LEAD 5.0 MG/L TCLP
Quantity: 45760
Units: P - Pounds
Number of Containers: 001
Container Type: DT - Dump trucks
Handling Method: L Landfill.
Specific Gravity: 100
Year: 1997

Document ID: NYB8773632
Manifest Status: Completed copy
Trans1 State ID: 67278KNY
Trans2 State ID: Not reported
Generator Ship Date: 03/04/1997
Trans1 Recv Date: 03/04/1997
Trans2 Recv Date: / /
TSD Site Recv Date: 03/05/1997
Part A Recv Date: 03/19/1997
Part B Recv Date: 03/19/1997
Generator EPA ID: VAD003112364
Trans1 EPA ID: NYD000688671
Trans2 EPA ID: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

1000150844

TSDF ID: NYD049836679
Waste Code: D008 - LEAD 5.0 MG/L TCLP
Quantity: 46020
Units: P - Pounds
Number of Containers: 001
Container Type: DT - Dump trucks
Handling Method: L Landfill.
Specific Gravity: 100
Year: 1997

Document ID: NYB8773668
Manifest Status: Completed copy
Trans1 State ID: 3165A1NY
Trans2 State ID: Not reported
Generator Ship Date: 03/03/1997
Trans1 Recv Date: 03/03/1997
Trans2 Recv Date: / /
TSD Site Recv Date: 03/04/1997
Part A Recv Date: 03/19/1997
Part B Recv Date: 03/19/1997
Generator EPA ID: VAD003112364
Trans1 EPA ID: NYD046765574
Trans2 EPA ID: Not reported
TSDF ID: NYD049836679
Waste Code: D008 - LEAD 5.0 MG/L TCLP
Quantity: 45960
Units: P - Pounds
Number of Containers: 001
Container Type: DT - Dump trucks
Handling Method: L Landfill.
Specific Gravity: 100
Year: 1997

Document ID: NYB8773695
Manifest Status: Completed copy
Trans1 State ID: 155035687
Trans2 State ID: Not reported
Generator Ship Date: 03/03/1997
Trans1 Recv Date: 03/03/1997
Trans2 Recv Date: / /
TSD Site Recv Date: 03/04/1997
Part A Recv Date: 03/19/1997
Part B Recv Date: 03/19/1997
Generator EPA ID: VAD003112364
Trans1 EPA ID: NYD046765574
Trans2 EPA ID: Not reported
TSDF ID: NYD049836679
Waste Code: D008 - LEAD 5.0 MG/L TCLP
Quantity: 45680
Units: P - Pounds
Number of Containers: 001
Container Type: DT - Dump trucks
Handling Method: L Landfill.
Specific Gravity: 100
Year: 1997

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

1000150844

Document ID: NYB8773713
Manifest Status: Completed copy
Trans1 State ID: NY67285K
Trans2 State ID: Not reported
Generator Ship Date: 03/03/1997
Trans1 Recv Date: 03/03/1997
Trans2 Recv Date: / /
TSD Site Recv Date: 03/04/1997
Part A Recv Date: 03/19/1997
Part B Recv Date: 03/19/1997
Generator EPA ID: VAD003112364
Trans1 EPA ID: NYD000688671
Trans2 EPA ID: Not reported
TSDF ID: NYD049836679
Waste Code: D008 - LEAD 5.0 MG/L TCLP
Quantity: 46500
Units: P - Pounds
Number of Containers: 001
Container Type: DT - Dump trucks
Handling Method: L Landfill.
Specific Gravity: 100
Year: 1997

Document ID: NYB8773722
Manifest Status: Completed copy
Trans1 State ID: NY67293K
Trans2 State ID: Not reported
Generator Ship Date: 03/03/1997
Trans1 Recv Date: 03/03/1997
Trans2 Recv Date: / /
TSD Site Recv Date: 03/04/1997
Part A Recv Date: 03/19/1997
Part B Recv Date: 03/19/1997
Generator EPA ID: VAD003112364
Trans1 EPA ID: NYD000688671
Trans2 EPA ID: Not reported
TSDF ID: NYD049836679
Waste Code: D008 - LEAD 5.0 MG/L TCLP
Quantity: 44900
Units: P - Pounds
Number of Containers: 001
Container Type: DT - Dump trucks
Handling Method: L Landfill.
Specific Gravity: 100
Year: 1997

Document ID: NYB8773731
Manifest Status: Completed copy
Trans1 State ID: NY67301K
Trans2 State ID: Not reported
Generator Ship Date: 03/03/1997
Trans1 Recv Date: 03/03/1997
Trans2 Recv Date: / /
TSD Site Recv Date: 03/04/1997
Part A Recv Date: 03/19/1997

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

1000150844

Part B Recv Date: 03/19/1997
Generator EPA ID: VAD003112364
Trans1 EPA ID: NYD000688671
Trans2 EPA ID: Not reported
TSD ID: NYD049836679
Waste Code: D008 - LEAD 5.0 MG/L TCLP
Quantity: 46780
Units: P - Pounds
Number of Containers: 001
Container Type: DT - Dump trucks
Handling Method: L Landfill.
Specific Gravity: 100
Year: 1997

Document ID: NYB8773686
Manifest Status: Completed copy
Trans1 State ID: NY803GOV
Trans2 State ID: Not reported
Generator Ship Date: 03/03/1997
Trans1 Recv Date: 03/03/1997
Trans2 Recv Date: / /
TSD Site Recv Date: 03/04/1997
Part A Recv Date: 03/19/1997
Part B Recv Date: 03/19/1997
Generator EPA ID: VAD003112364
Trans1 EPA ID: NYD982792814
Trans2 EPA ID: Not reported
TSD ID: NYD049836679
Waste Code: D008 - LEAD 5.0 MG/L TCLP
Quantity: 44200
Units: P - Pounds
Number of Containers: 001
Container Type: DT - Dump trucks
Handling Method: L Landfill.
Specific Gravity: 100
Year: 1997

Document ID: NYB8773344
Manifest Status: Completed copy
Trans1 State ID: XC47781PA
Trans2 State ID: Not reported
Generator Ship Date: 03/04/1997
Trans1 Recv Date: 03/04/1997
Trans2 Recv Date: / /
TSD Site Recv Date: 03/05/1997
Part A Recv Date: 03/19/1997
Part B Recv Date: 03/19/1997
Generator EPA ID: VAD003112364
Trans1 EPA ID: NYD986969947
Trans2 EPA ID: Not reported
TSD ID: NYD049836679
Waste Code: D008 - LEAD 5.0 MG/L TCLP
Quantity: 50240
Units: P - Pounds
Number of Containers: 001

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

1000150844

Container Type: DT - Dump trucks
Handling Method: L Landfill.
Specific Gravity: 100
Year: 1997

Document ID: NYB8773659
Manifest Status: Completed copy
Trans1 State ID: 22866HNY
Trans2 State ID: Not reported
Generator Ship Date: 03/03/1997
Trans1 Recv Date: 03/03/1997
Trans2 Recv Date: / /
TSD Site Recv Date: 03/04/1997
Part A Recv Date: 03/19/1997
Part B Recv Date: 03/19/1997
Generator EPA ID: VAD003112364
Trans1 EPA ID: NYD051809952
Trans2 EPA ID: Not reported
TSDF ID: NYD049836679
Waste Code: D008 - LEAD 5.0 MG/L TCLP
Quantity: 42260
Units: P - Pounds
Number of Containers: 001
Container Type: DT - Dump trucks
Handling Method: L Landfill.
Specific Gravity: 100
Year: 1997

Document ID: NYB8773353
Manifest Status: Completed copy
Trans1 State ID: 56966KNY
Trans2 State ID: Not reported
Generator Ship Date: 03/04/1997
Trans1 Recv Date: 03/04/1997
Trans2 Recv Date: / /
TSD Site Recv Date: 03/05/1997
Part A Recv Date: 03/19/1997
Part B Recv Date: 03/19/1997
Generator EPA ID: VAD003112364
Trans1 EPA ID: NYD097644801
Trans2 EPA ID: Not reported
TSDF ID: NYD049836679
Waste Code: D008 - LEAD 5.0 MG/L TCLP
Quantity: 46620
Units: P - Pounds
Number of Containers: 001
Container Type: DT - Dump trucks
Handling Method: L Landfill.
Specific Gravity: 100
Year: 1997

Document ID: NYB8773704
Manifest Status: Completed copy
Trans1 State ID: NY67280K

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

1000150844

Trans2 State ID: Not reported
Generator Ship Date: 03/03/1997
Trans1 Recv Date: 03/03/1997
Trans2 Recv Date: / /
TSD Site Recv Date: 03/04/1997
Part A Recv Date: 03/19/1997
Part B Recv Date: 03/19/1997
Generator EPA ID: VAD003112364
Trans1 EPA ID: NYD000688671
Trans2 EPA ID: Not reported
TSD ID: NYD049836679
Waste Code: D008 - LEAD 5.0 MG/L TCLP
Quantity: 47200
Units: P - Pounds
Number of Containers: 001
Container Type: DT - Dump trucks
Handling Method: L Landfill.
Specific Gravity: 100
Year: 1997

Lead Smelter Sites:

Site ID: 0302508
Facility Region Id: 03
NPL Status: Not on the NPL
Federal Facility: No
Primary Site Type Category Description: Recycling
Site Type Category Description 1: Not reported
Site Type Category Description 2: Not reported
Site Type Category Description 3: Not reported
Latitude: Not reported
Longitude: Not reported

Site ID: 0302508
Facility Region Id: 03
NPL Status: Not on the NPL
Federal Facility: No
Primary Site Type Category Description: Recycling
Site Type Category Description 1: Not reported
Site Type Category Description 2: Not reported
Site Type Category Description 3: Not reported
Latitude: Not reported
Longitude: Not reported

Site ID: 0302508
Facility Region Id: 03
NPL Status: Not on the NPL
Federal Facility: No
Primary Site Type Category Description: Recycling
Site Type Category Description 1: Not reported
Site Type Category Description 2: Not reported
Site Type Category Description 3: Not reported
Latitude: Not reported
Longitude: Not reported

Site ID: 0302508
Facility Region Id: 03
NPL Status: Not on the NPL

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

1000150844

Federal Facility: No
Primary Site Type Category Description: Recycling
Site Type Category Description 1: Not reported
Site Type Category Description 2: Not reported
Site Type Category Description 3: Not reported
Latitude: Not reported
Longitude: Not reported

PRP:

PRP name: ELI VIENER
ESTATE OF MAURICA VIENER THE
HYMAN VIENER & SONS
JACOB VIENER
SAUL VIENER

44
West
1/2-1
0.898 mi.
4741 ft.

FEC BIOREMEDIATION FACILITY
200 MAURY STREET
RICHMOND, VA 23224

CORRACTS 1000261495
2020 COR ACTION N/A

Relative:
Higher

CORRACTS:

Actual:
19 ft.

EPA ID: VAD086293719
EPA Region: 03
Area Name: ENTIRE FACILITY
Actual Date: 19980501
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: VAD086293719
EPA Region: 03
Area Name: ENTIRE FACILITY
Actual Date: 20090901
Action: CA750IN - Migration of Contaminated Groundwater under Control, More information is needed to make a determination
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: VAD086293719
EPA Region: 03
Area Name: ENTIRE FACILITY
Actual Date: 20090901
Action: CA725YE - Current Human Exposures Under Control, Yes, Current Human Exposures Under Control has been verified
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: VAD086293719
EPA Region: 03
Area Name: ENTIRE FACILITY
Actual Date: 20091106

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FEC BIOREMEDIATION FACILITY (Continued)

1000261495

Action: CA150 - RFI Workplan Approved
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: VAD086293719
EPA Region: 03
Area Name: AOC-1 STORAGE TRAILER
Actual Date: 20101008
Action: CA190 - RFI Report Received
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: VAD086293719
EPA Region: 03
Area Name: SWMU-1 STORAGE TRAILER
Actual Date: 20101008
Action: CA190 - RFI Report Received
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: VAD086293719
EPA Region: 03
Area Name: AOC-1 STORAGE TRAILER
Actual Date: 20100909
Action: CA196
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: VAD086293719
EPA Region: 03
Area Name: SWMU-1 STORAGE TRAILER
Actual Date: 20100909
Action: CA196
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: VAD086293719
EPA Region: 03
Area Name: ENTIRE FACILITY
Actual Date: 20120913
Action: CA900NC
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: VAD086293719
EPA Region: 03
Area Name: ENTIRE FACILITY
Actual Date: 20120913
Action: CA999NF - Corrective Action Process Terminated, No Further Action
NAICS Code(s): Not reported
Original schedule date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FEC BIOREMEDIATION FACILITY (Continued)

1000261495

Schedule end date: Not reported

EPA ID: VAD086293719
EPA Region: 03
Area Name: ENTIRE FACILITY
Actual Date: 20120913
Action: CA800YE
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: VAD086293719
EPA Region: 03
Area Name: ENTIRE FACILITY
Actual Date: 20120913
Action: CA550NR
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: VAD086293719
EPA Region: 03
Area Name: ENTIRE FACILITY
Actual Date: 20120913
Action: CA400 - Date For Remedy Selection (CM Imposed)
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: VAD086293719
EPA Region: 03
Area Name: SWMU-1 STORAGE TRAILER
Actual Date: 20100914
Action: CA197
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: VAD086293719
EPA Region: 03
Area Name: AOC-1 STORAGE TRAILER
Actual Date: 20100914
Action: CA197
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: VAD086293719
EPA Region: 03
Area Name: AOC-1 STORAGE TRAILER
Actual Date: 20101015
Action: CA020
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: VAD086293719

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FEC BIOREMEDIATION FACILITY (Continued)

1000261495

EPA Region: 03
Area Name: SWMU-1 STORAGE TRAILER
Actual Date: 20101015
Action: CA020
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: VAD086293719
EPA Region: 03
Area Name: SWMU-1 STORAGE TRAILER
Actual Date: 20101119
Action: CA191
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: VAD086293719
EPA Region: 03
Area Name: AOC-1 STORAGE TRAILER
Actual Date: 20101119
Action: CA191
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: VAD086293719
EPA Region: 03
Area Name: ENTIRE FACILITY
Actual Date: 20080421
Action: CA100 - RFI Imposition
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: VAD086293719
EPA Region: 03
Area Name: ENTIRE FACILITY
Actual Date: 20120621
Action: CA750YE - Migration of Contaminated Groundwater under Control, Yes,
Migration of Contaminated Groundwater Under Control has been verified
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: VAD086293719
EPA Region: 03
Area Name: ENTIRE FACILITY
Actual Date: 20090922
Action: CA160 - RFI Supplemental Information Received
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: VAD086293719
EPA Region: 03
Area Name: SWMU-1 STORAGE TRAILER

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FEC BIOREMEDIATION FACILITY (Continued)

1000261495

Actual Date: 20080423
Action: CA155 - RFI Supplemental Information Requested By Agency
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: VAD086293719
EPA Region: 03
Area Name: AOC-1 STORAGE TRAILER
Actual Date: 20080423
Action: CA155 - RFI Supplemental Information Requested By Agency
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: VAD086293719
EPA Region: 03
Area Name: AOC-1 STORAGE TRAILER
Actual Date: 20090123
Action: CA155 - RFI Supplemental Information Requested By Agency
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: VAD086293719
EPA Region: 03
Area Name: SWMU-1 STORAGE TRAILER
Actual Date: 20090123
Action: CA155 - RFI Supplemental Information Requested By Agency
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

2020 COR ACTION:
EPA ID: VAD086293719
Region: 3
Action: Not reported

45
NW
1/2-1
0.959 mi.
5065 ft.

**RICHMOND GAS CO
DOCK STREET
RICHMOND, VA 23219**

**EDR MGP 1008408685
N/A**

**Relative:
Higher**

Manufactured Gas Plants:
No additional information available

**Actual:
22 ft.**

Count: 12 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
RICHMOND	S105984284	SECOND BAPTIST CHURCH FORMER	7 TO 13 W FRANKLIN ST	23219	VA LUST, VA LTANKS
RICHMOND	S105984417	VDOT 17TH AND DOCK ST	17TH AND DOCK ST	23219	VA LUST, VA LTANKS
RICHMOND	S111014111	COMMERCIAL SHOPPING CENTER	1732 TO 1808 BROAD ROCK RD	23224	VA LUST
RICHMOND	S105984474	THORPE AND ARONSON PARTNERSHIP	18TH AND BROAD ST	23224	VA LUST, VA LTANKS
RICHMOND	S105984102	LAYFIELD BUILDING FORMER	400 TO 406 WILLIAMSBURG RD	23231	VA LUST, VA LTANKS
RICHMOND	S104659114	MARRIOTT AND CHAVEZ PARKING LOTS	4TH 5TH BROAD AND MARSHALL ST	23223	VA LUST, VA LTANKS
RICHMOND	S106528780	NEW FEDERAL COURTHOUSE SITE	7TH AND BROAD ST	23219	VA LUST, VA LTANKS
RICHMOND	S105984362	WINN BUS LINES INC	9TH AND BROAD ST	23219	VA LUST
RICHMOND	S110761718	FIRST FREEDOM CENTER	E CARY ST AND S 14TH ST	23219	VA LUST, VA LTANKS
RICHMOND	S117881532	LEWIS STREET AND NICHOLSON STREET	LEWIS ST AND NICHOLSON ST	23231	VA LTANKS
RICHMOND	S105384147	ROCKETTS LANDING	EAST MAIN STREET	23231	VA INST CONTROL, VA VCP
RICHMOND	1003866062	BYRD INTERNATIONAL AIRPORT	WILLIAMSBURG RD	23231	CERC-NFRAP

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

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

Date of Government Version: 03/26/2015	Source: EPA
Date Data Arrived at EDR: 04/08/2015	Telephone: N/A
Date Made Active in Reports: 06/22/2015	Last EDR Contact: 07/09/2015
Number of Days to Update: 75	Next Scheduled EDR Contact: 10/19/2015
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

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

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

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

Date of Government Version: 03/26/2015	Source: EPA
Date Data Arrived at EDR: 04/08/2015	Telephone: N/A
Date Made Active in Reports: 06/22/2015	Last EDR Contact: 07/09/2015
Number of Days to Update: 75	Next Scheduled EDR Contact: 10/19/2015
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

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

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

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

Date of Government Version: 03/26/2015	Source: EPA
Date Data Arrived at EDR: 04/08/2015	Telephone: N/A
Date Made Active in Reports: 06/22/2015	Last EDR Contact: 07/09/2015
Number of Days to Update: 75	Next Scheduled EDR Contact: 10/19/2015
	Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 05/29/2015
Number of Days to Update: 94	Next Scheduled EDR Contact: 09/07/2015
	Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

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

Date of Government Version: 03/26/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/08/2015	Telephone: 703-603-8704
Date Made Active in Reports: 06/11/2015	Last EDR Contact: 07/10/2015
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/19/2015
	Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS 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 this 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. This 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 a potential NPL site.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 05/29/2015
Number of Days to Update: 94	Next Scheduled EDR Contact: 09/07/2015
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/10/2015
Date Data Arrived at EDR: 03/31/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 72

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

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

Date of Government Version: 03/10/2015
Date Data Arrived at EDR: 03/31/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 72

Source: Environmental Protection Agency
Telephone: 800-438-2474
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

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

Date of Government Version: 03/10/2015
Date Data Arrived at EDR: 03/31/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 72

Source: Environmental Protection Agency
Telephone: 800-438-2474
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

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

Date of Government Version: 03/10/2015
Date Data Arrived at EDR: 03/31/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 72

Source: Environmental Protection Agency
Telephone: 800-438-2474
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

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

Date of Government Version: 03/10/2015
Date Data Arrived at EDR: 03/31/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 72

Source: Environmental Protection Agency
Telephone: 800-438-2474
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

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

Date of Government Version: 03/16/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/17/2015	Telephone: 703-603-0695
Date Made Active in Reports: 06/02/2015	Last EDR Contact: 06/01/2015
Number of Days to Update: 77	Next Scheduled EDR Contact: 09/14/2015
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

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

Date of Government Version: 03/16/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/17/2015	Telephone: 703-603-0695
Date Made Active in Reports: 06/02/2015	Last EDR Contact: 06/01/2015
Number of Days to Update: 77	Next Scheduled EDR Contact: 09/14/2015
	Data Release Frequency: Varies

LUCIS: Land Use Control Information System

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

Date of Government Version: 05/28/2015	Source: Department of the Navy
Date Data Arrived at EDR: 05/29/2015	Telephone: 843-820-7326
Date Made Active in Reports: 06/11/2015	Last EDR Contact: 05/18/2015
Number of Days to Update: 13	Next Scheduled EDR Contact: 08/31/2015
	Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

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

Date of Government Version: 03/30/2015	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 03/31/2015	Telephone: 202-267-2180
Date Made Active in Reports: 06/02/2015	Last EDR Contact: 06/26/2015
Number of Days to Update: 63	Next Scheduled EDR Contact: 10/12/2015
	Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

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

Date of Government Version: N/A	Source: Department of Environmental Quality
Date Data Arrived at EDR: N/A	Telephone: 804-698-4236
Date Made Active in Reports: N/A	Last EDR Contact: 06/18/2015
Number of Days to Update: N/A	Next Scheduled EDR Contact: 10/05/2015
	Data Release Frequency: N/A

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

SWF/LF: Solid Waste Management Facilities

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

Date of Government Version: 04/17/2015
Date Data Arrived at EDR: 04/20/2015
Date Made Active in Reports: 04/24/2015
Number of Days to Update: 4

Source: Department of Environmental Quality
Telephone: 804-698-4238
Last EDR Contact: 06/04/2015
Next Scheduled EDR Contact: 09/21/2015
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG TD: Leaking Underground Storage Tank Sites

Leaking underground storage tank site locations. Includes: counties of Accomack, Isle of Wight, James City, Northampton, Southampton, York; cities of Chesapeake, Franklin, Hampton, Newport News, Norfolk, Poquoson, Portsmouth, Suffolk, Virginia Beach, Williamsburg.

Date of Government Version: 06/30/2013
Date Data Arrived at EDR: 07/05/2013
Date Made Active in Reports: 09/16/2013
Number of Days to Update: 73

Source: Department of Environmental Quality Tidewater Regional Office
Telephone: trofoia@deq.vir
Last EDR Contact: 06/24/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Quarterly

LUST REG SW: Leaking Underground Storage Tank Database

Leaking underground storage tank site locations. Includes: counties of Bland, Buchanan, Carroll, Dickenson, Grayson, Lee, Russell, Scott, Smyth, Tazewell, Washington, Wise, Wythe; cities of Bristol, Galax, Norton.

Date of Government Version: 07/15/2013
Date Data Arrived at EDR: 07/18/2013
Date Made Active in Reports: 09/16/2013
Number of Days to Update: 60

Source: Department of Environmental Quality Southwest Regional Office
Telephone: 276-676-4800
Last EDR Contact: 07/13/2015
Next Scheduled EDR Contact: 10/28/2015
Data Release Frequency: No Update Planned

LUST REG SC: Leaking Underground Storage Tanks

Leaking underground storage tank site locations. Includes: counties of Amherst, Appomattox, Buckingham, Campbell, Charlotte, Cumberland, Halifax, Lunenburg, Mecklenburg, Nottoway, Pittsylvania, Prince Deward; cities of Danville, Lynchburg.

Date of Government Version: 09/06/2013
Date Data Arrived at EDR: 09/06/2013
Date Made Active in Reports: 09/17/2013
Number of Days to Update: 11

Source: Department of Environmental Quality, South Central Region
Telephone: 434-582-5120
Last EDR Contact: 06/01/2015
Next Scheduled EDR Contact: 09/14/2015
Data Release Frequency: Semi-Annually

LUST REG VA: Leaking Underground Storage Tank List

Leaking underground storage tank site locations. Includes: counties of Albemarle, Augusta, Bath, Clarke, Fluvanna, Frederick, Greene, Highland, Nelson, Page, Rockbridge, Rockingham, Shenandoah, Warren; cities of Buena Vista, Charlottesville, Harrisonburg, Lexington, Staunton, Waynesboro, Winchester.

Date of Government Version: 12/06/2011
Date Data Arrived at EDR: 12/08/2011
Date Made Active in Reports: 01/16/2012
Number of Days to Update: 39

Source: Department of Environmental Quality Valley Regional Office
Telephone: 540-574-7800
Last EDR Contact: 06/01/2015
Next Scheduled EDR Contact: 09/14/2015
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG WC: Leaking Underground Storage Tank List

Leaking underground storage tank site locations. Includes: counties of Alleghany, Bedford, Botetourt, Craig, Floyd, Franklin, Giles, Henry, Montgomery, Patrick, Pulaski, Roanoke; cities of Bedford, Clifton Forge, Covington, Martinsville, Radford, Roanoke, Salem.

Date of Government Version: 06/04/2015	Source: Department of Environmental Quality West Central Regional Office
Date Data Arrived at EDR: 06/05/2015	Telephone: 540-562-6700
Date Made Active in Reports: 07/07/2015	Last EDR Contact: 06/01/2015
Number of Days to Update: 32	Next Scheduled EDR Contact: 09/14/2015
	Data Release Frequency: No Update Planned

LUST REG NO: Leaking Underground Storage Tank Tracking Database

Leaking underground storage tank site locations. Includes: counties of Arlington, Caroline, Culpeper, Fairfax, Fauquier, King George, Loudoun, Louisa, Madison, Orange, Prince William, Rappahannock, Spotsylvania, Stafford; cities of Alexandria, Fairfax, Falls Church, Fredericksburg, Manassas, Manassas Park.

Date of Government Version: 05/18/2004	Source: Department of Environmental Quality Northern Regional Office
Date Data Arrived at EDR: 05/22/2004	Telephone: 703-583-3800
Date Made Active in Reports: 07/09/2004	Last EDR Contact: 09/06/2011
Number of Days to Update: 48	Next Scheduled EDR Contact: 12/19/2011
	Data Release Frequency: No Update Planned

LUST REG PD: Leaking Underground Storage Tank Sites

Leaking underground storage tank site locations. Includes: counties of Amelia, Brunswick, Charles City, Chesterfield, Dinwiddie, Essex, Gloucester, Goochland, Greenville, Hanover, Henrico, King and Queen, King William, Lancaster, Mathews, Middlesex, New Kent, Northumberland, Powhatan, Prince George, Richmond, Surry, Sussex, Westmoreland; cities of Colonial Heights, Emporia, Hopewell, Petersburg.

Date of Government Version: 12/02/2014	Source: Department of Environmental Quality Piedmont Regional Office
Date Data Arrived at EDR: 12/04/2014	Telephone: 804-527-5020
Date Made Active in Reports: 01/16/2015	Last EDR Contact: 06/01/2015
Number of Days to Update: 43	Next Scheduled EDR Contact: 09/14/2015
	Data Release Frequency: Quarterly

LTANKS: Leaking Petroleum Storage Tanks

Includes releases of petroleum from underground storage tanks and aboveground storage tanks.

Date of Government Version: 05/01/2015	Source: Department of Environmental Quality
Date Data Arrived at EDR: 06/03/2015	Telephone: 804-698-4010
Date Made Active in Reports: 07/01/2015	Last EDR Contact: 06/03/2015
Number of Days to Update: 28	Next Scheduled EDR Contact: 09/14/2015
	Data Release Frequency: Quarterly

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 03/17/2015	Source: EPA Region 6
Date Data Arrived at EDR: 05/01/2015	Telephone: 214-665-6597
Date Made Active in Reports: 06/22/2015	Last EDR Contact: 07/22/2015
Number of Days to Update: 52	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 03/30/2015	Source: EPA Region 7
Date Data Arrived at EDR: 04/28/2015	Telephone: 913-551-7003
Date Made Active in Reports: 06/22/2015	Last EDR Contact: 07/22/2015
Number of Days to Update: 55	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/30/2015	Source: EPA Region 8
Date Data Arrived at EDR: 05/05/2015	Telephone: 303-312-6271
Date Made Active in Reports: 06/22/2015	Last EDR Contact: 07/22/2015
Number of Days to Update: 48	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 01/08/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/08/2015	Telephone: 415-972-3372
Date Made Active in Reports: 02/09/2015	Last EDR Contact: 01/08/2015
Number of Days to Update: 32	Next Scheduled EDR Contact: 05/11/2015
	Data Release Frequency: Quarterly

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

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

Date of Government Version: 04/30/2015	Source: EPA, Region 5
Date Data Arrived at EDR: 05/29/2015	Telephone: 312-886-7439
Date Made Active in Reports: 06/22/2015	Last EDR Contact: 07/22/2015
Number of Days to Update: 24	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 09/30/2014	Source: EPA Region 4
Date Data Arrived at EDR: 03/03/2015	Telephone: 404-562-8677
Date Made Active in Reports: 03/13/2015	Last EDR Contact: 07/22/2015
Number of Days to Update: 10	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Semi-Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 02/03/2015	Source: EPA Region 10
Date Data Arrived at EDR: 02/12/2015	Telephone: 206-553-2857
Date Made Active in Reports: 03/13/2015	Last EDR Contact: 07/22/2015
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/03/2015	Source: EPA Region 1
Date Data Arrived at EDR: 04/30/2015	Telephone: 617-918-1313
Date Made Active in Reports: 06/22/2015	Last EDR Contact: 04/03/2015
Number of Days to Update: 53	Next Scheduled EDR Contact: 08/10/2015
	Data Release Frequency: Varies

State and tribal registered storage tank lists

UST: Registered Petroleum Storage Tanks

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/01/2015
Date Data Arrived at EDR: 06/03/2015
Date Made Active in Reports: 07/01/2015
Number of Days to Update: 28

Source: Department of Environmental Quality
Telephone: 804-698-4010
Last EDR Contact: 06/03/2015
Next Scheduled EDR Contact: 09/14/2015
Data Release Frequency: Semi-Annually

AST: Registered Petroleum Storage Tanks
Registered Aboveground Storage Tanks.

Date of Government Version: 05/01/2015
Date Data Arrived at EDR: 06/03/2015
Date Made Active in Reports: 07/01/2015
Number of Days to Update: 28

Source: Department of Environmental Quality
Telephone: 804-698-4010
Last EDR Contact: 06/03/2015
Next Scheduled EDR Contact: 09/14/2015
Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

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

Date of Government Version: 02/03/2015
Date Data Arrived at EDR: 04/30/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 53

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/28/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

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

Date of Government Version: 09/30/2014
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 10

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 07/22/2015
Next Scheduled EDR Contact: 11/09/2015
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

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

Date of Government Version: 04/30/2015
Date Data Arrived at EDR: 05/26/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 27

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 07/22/2015
Next Scheduled EDR Contact: 11/09/2015
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

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

Date of Government Version: 03/17/2015
Date Data Arrived at EDR: 05/01/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 52

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 07/22/2015
Next Scheduled EDR Contact: 11/09/2015
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/23/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 65

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/22/2015
Next Scheduled EDR Contact: 11/09/2015
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

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

Date of Government Version: 04/30/2015
Date Data Arrived at EDR: 05/05/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 48

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 07/22/2015
Next Scheduled EDR Contact: 11/09/2015
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

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

Date of Government Version: 05/06/2015
Date Data Arrived at EDR: 05/19/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 34

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/22/2015
Next Scheduled EDR Contact: 11/09/2015
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

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

Date of Government Version: 12/14/2014
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 28

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Quarterly

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 07/10/2015
Next Scheduled EDR Contact: 10/28/2015
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

ENG CONTROLS: Engineering Controls Sites Listing

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

Date of Government Version: 06/23/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 07/01/2015
Number of Days to Update: 5

Source: Department of Environmental Quality
Telephone: 804-698-4228
Last EDR Contact: 09/29/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Quarterly

INST CONTROL: Voluntary Remediation Program Database

Sites included in the Voluntary Remediation Program database that have deed restrictions.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/23/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 07/01/2015
Number of Days to Update: 5

Source: Department of Environmental Quality
Telephone: 804-698-4228
Last EDR Contact: 09/29/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

VRP: Voluntary Remediation Program

The Voluntary Cleanup Program encourages owners of elected contaminated sites to take the initiative and conduct voluntary cleanups that meet state environmental standards.

Date of Government Version: 06/23/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 07/01/2015
Number of Days to Update: 5

Source: Department of Environmental Quality
Telephone: 804-698-4228
Last EDR Contact: 09/29/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/29/2014
Date Data Arrived at EDR: 10/01/2014
Date Made Active in Reports: 11/06/2014
Number of Days to Update: 36

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

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

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

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Site Specific Assessments

To qualify for Brownfields Assessment, the site must meet the Federal definition of a Brownfields and should have contaminant issues that need to be addressed and a redevelopment plan supported by the local government and community. Virginia's Department of Environmental Quality performs brownfields assessments under a cooperative agreement with the U.S. Environmental Protection Agency at no cost to communities, property owners or, prospective purchasers. The assessment is an evaluation of environmental impacts caused by previous site uses similar to a Phase II Environmental Assessment.

Date of Government Version: 04/29/2015
Date Data Arrived at EDR: 04/30/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 33

Source: Department of Environmental Quality
Telephone: 804-698-4207
Last EDR Contact: 04/29/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/23/2015
Date Data Arrived at EDR: 03/24/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 70

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/24/2015
Next Scheduled EDR Contact: 10/05/2015
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

ODI: Open Dump Inventory

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

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

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

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

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

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

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/22/2015
Next Scheduled EDR Contact: 11/09/2015
Data Release Frequency: No Update Planned

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

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

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 05/01/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

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

Date of Government Version: 02/25/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 15

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/29/2015
Next Scheduled EDR Contact: 09/14/2015
Data Release Frequency: Quarterly

US HIST CDL: National Clandestine Laboratory Register

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/25/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 15

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/29/2015
Next Scheduled EDR Contact: 09/14/2015
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

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

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 07/22/2015
Next Scheduled EDR Contact: 11/09/2015
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

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

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 03/31/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 72

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Annually

SPILLS WC: Prep Database

The Department of Environmental Quality's POLLUTION RESPONSE PROGRAM, known as PREP, provides for responses to air, water, and waste pollution incidents in order to protect human health and the environment.

Date of Government Version: 09/21/2009
Date Data Arrived at EDR: 09/29/2009
Date Made Active in Reports: 10/30/2009
Number of Days to Update: 31

Source: Department of Environmental Quality, West Central Region
Telephone: 540-562-6700
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

SPILLS VA: PREP Database

The Department of Environmental Quality's POLLUTION RESPONSE PROGRAM, known as PREP, provides for responses to air, water, and waste pollution incidents in order to protect human health and the environment.

Date of Government Version: 08/08/2012
Date Data Arrived at EDR: 08/09/2012
Date Made Active in Reports: 10/05/2012
Number of Days to Update: 57

Source: Department of Environmental Quality, Valley Regional Office
Telephone: 540-574-7800
Last EDR Contact: 05/06/2013
Next Scheduled EDR Contact: 08/19/2013
Data Release Frequency: Quarterly

SPILLS TD: PREP Database

The Department of Environmental Quality's POLLUTION RESPONSE PROGRAM, known as PREP, provides for responses to air, water, and waste pollution incidents in order to protect human health and the environment.

Date of Government Version: 09/17/2009
Date Data Arrived at EDR: 09/23/2009
Date Made Active in Reports: 10/06/2009
Number of Days to Update: 13

Source: Department of Environmental Quality, Tidewater Region
Telephone: trofoia@deq.vir
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SPILLS SW: Reportable Spills

The Department of Environmental Quality's POLLUTION RESPONSE PROGRAM, known as PREP, provides for responses to air, water, and waste pollution incidents in order to protect human health and the environment.

Date of Government Version: 01/21/2010	Source: Department of Environmental Quality, Southwest Region
Date Data Arrived at EDR: 01/22/2010	Telephone: 276-676-4839
Date Made Active in Reports: 02/16/2010	Last EDR Contact: 07/13/2012
Number of Days to Update: 25	Next Scheduled EDR Contact: 10/29/2012
	Data Release Frequency: No Update Planned

SPILLS PD: PREP Database

The Department of Environmental Quality's POLLUTION RESPONSE PROGRAM, known as PREP, provides for responses to air, water, and waste pollution incidents in order to protect human health and the environment.

Date of Government Version: 10/20/2009	Source: Department of Environmental Quality, Piedmont Region
Date Data Arrived at EDR: 10/29/2009	Telephone: 804-527-5020
Date Made Active in Reports: 12/03/2009	Last EDR Contact: 02/06/2012
Number of Days to Update: 35	Next Scheduled EDR Contact: 05/21/2012
	Data Release Frequency: Quarterly

SPILLS NO: PREP Database

The Department of Environmental Quality's POLLUTION RESPONSE PROGRAM, known as PREP, provides for responses to air, water, and waste pollution incidents in order to protect human health and the environment.

Date of Government Version: 09/23/2009	Source: Department of Environmental Quality, Northern Region
Date Data Arrived at EDR: 09/29/2009	Telephone: 703-583-3864
Date Made Active in Reports: 10/30/2009	Last EDR Contact: 09/06/2011
Number of Days to Update: 31	Next Scheduled EDR Contact: 12/19/2011
	Data Release Frequency: No Update Planned

SPILLS PC: Pollution Complaint Database

Pollution Complaints Database. The pollution reports contained in the PC database include the initial release reporting of Leaking Underground Storage Tanks and all other releases of petroleum to the environment as well as releases to state waters. The database is current through 12/1/93. Since that time, all spill and pollution reporting information has been collected and tracked through the DEQ regional offices.

Date of Government Version: 06/01/1996	Source: Department of Environmental Quality
Date Data Arrived at EDR: 10/22/1996	Telephone: 804-698-4287
Date Made Active in Reports: 11/21/1996	Last EDR Contact: 03/08/2010
Number of Days to Update: 30	Next Scheduled EDR Contact: 06/21/2010
	Data Release Frequency: No Update Planned

SPILLS BRL: Prep/Spills Database Listing

A listing of spills locations located in the Blue Ridge Regional area, Lynchburg.

Date of Government Version: 09/18/2009	Source: DEQ, Blue Ridge Regional Office
Date Data Arrived at EDR: 09/18/2009	Telephone: 434-582-6218
Date Made Active in Reports: 10/06/2009	Last EDR Contact: 11/28/2011
Number of Days to Update: 18	Next Scheduled EDR Contact: 03/12/2012
	Data Release Frequency: Varies

SPILLS: Prep/Spills Database Listing

The Department of Environmental Quality's POLLUTION RESPONSE PROGRAM, known as PREP, provides for responses to air, water, and waste pollution incidents in order to protect human health and the environment. PREP staff often work to assist local emergency responders, other state agencies, federal agencies, and responsible parties, as may be needed, to manage pollution incidents. Oil spills, fish kills, and hazardous materials spills are examples of incidents that may involve the DEQ's PREP Program.

Date of Government Version: 05/01/2015	Source: Department of Environmental Quality
Date Data Arrived at EDR: 06/03/2015	Telephone: 804-698-4287
Date Made Active in Reports: 07/01/2015	Last EDR Contact: 06/03/2015
Number of Days to Update: 28	Next Scheduled EDR Contact: 09/14/2015
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SPILLS 90: SPILLS90 data from FirstSearch

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

Date of Government Version: 09/01/2012	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/15/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 43	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

Other Ascertainable Records

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

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

Date of Government Version: 03/10/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/31/2015	Telephone: 800-438-2474
Date Made Active in Reports: 06/11/2015	Last EDR Contact: 06/26/2015
Number of Days to Update: 72	Next Scheduled EDR Contact: 10/12/2015
	Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

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

Date of Government Version: 07/31/2012	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 08/07/2012	Telephone: 202-366-4595
Date Made Active in Reports: 09/18/2012	Last EDR Contact: 05/05/2015
Number of Days to Update: 42	Next Scheduled EDR Contact: 08/17/2015
	Data Release Frequency: Varies

DOD: Department of Defense Sites

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

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 07/14/2015
Number of Days to Update: 62	Next Scheduled EDR Contact: 10/28/2015
	Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

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

Date of Government Version: 06/06/2014	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 09/10/2014	Telephone: 202-528-4285
Date Made Active in Reports: 09/18/2014	Last EDR Contact: 07/08/2015
Number of Days to Update: 8	Next Scheduled EDR Contact: 09/21/2015
	Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 46

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 06/22/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Varies

ROD: Records Of Decision

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

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/12/2015
Next Scheduled EDR Contact: 09/21/2015
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

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

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/26/2015
Next Scheduled EDR Contact: 09/07/2015
Data Release Frequency: Varies

US MINES: Mines Master Index File

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

Date of Government Version: 12/30/2014
Date Data Arrived at EDR: 12/31/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 29

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 06/03/2015
Next Scheduled EDR Contact: 09/14/2015
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

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

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/12/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 110

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 01/29/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

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

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/25/2015
Next Scheduled EDR Contact: 10/05/2015
Data Release Frequency: Every 4 Years

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 05/20/2015
Number of Days to Update: 25	Next Scheduled EDR Contact: 09/07/2015
	Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 05/20/2015
Number of Days to Update: 25	Next Scheduled EDR Contact: 09/07/2015
	Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

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

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

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

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

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

SSTS: Section 7 Tracking Systems

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

Date of Government Version: 12/31/2009	Source: EPA
Date Data Arrived at EDR: 12/10/2010	Telephone: 202-564-4203
Date Made Active in Reports: 02/25/2011	Last EDR Contact: 07/22/2015
Number of Days to Update: 77	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ICIS: Integrated Compliance Information System

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

Date of Government Version: 01/23/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/06/2015	Telephone: 202-564-5088
Date Made Active in Reports: 03/09/2015	Last EDR Contact: 07/09/2015
Number of Days to Update: 31	Next Scheduled EDR Contact: 10/28/2015
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

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

Date of Government Version: 07/01/2014	Source: EPA
Date Data Arrived at EDR: 10/15/2014	Telephone: 202-566-0500
Date Made Active in Reports: 11/17/2014	Last EDR Contact: 07/17/2015
Number of Days to Update: 33	Next Scheduled EDR Contact: 10/28/2015
	Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

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

Date of Government Version: 03/31/2015	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 04/09/2015	Telephone: 301-415-7169
Date Made Active in Reports: 06/11/2015	Last EDR Contact: 06/04/2015
Number of Days to Update: 63	Next Scheduled EDR Contact: 09/21/2015
	Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

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

Date of Government Version: 04/07/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/09/2015	Telephone: 202-343-9775
Date Made Active in Reports: 06/11/2015	Last EDR Contact: 07/09/2015
Number of Days to Update: 63	Next Scheduled EDR Contact: 10/19/2015
	Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

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

Date of Government Version: 01/18/2015	Source: EPA
Date Data Arrived at EDR: 02/27/2015	Telephone: (215) 814-5000
Date Made Active in Reports: 03/25/2015	Last EDR Contact: 06/10/2015
Number of Days to Update: 26	Next Scheduled EDR Contact: 09/21/2015
	Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

RMP: Risk Management Plans

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

Date of Government Version: 02/01/2015
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/22/2015
Next Scheduled EDR Contact: 11/09/2015
Data Release Frequency: Varies

BRS: Biennial Reporting System

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

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 04/19/2013
Number of Days to Update: 52

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 05/29/2015
Next Scheduled EDR Contact: 09/07/2015
Data Release Frequency: Biennially

UIC: Underground Injection Control Wells

A listing of underground injection controls wells.

Date of Government Version: 05/04/2015
Date Data Arrived at EDR: 05/06/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 27

Source: Department of Mines, Minerals and Energy
Telephone: 276-415-9700
Last EDR Contact: 05/06/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: Varies

DRYCLEANERS: Drycleaner List

A listing of registered drycleaners.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 04/23/2015
Date Made Active in Reports: 04/24/2015
Number of Days to Update: 1

Source: Department of Environmental Quality
Telephone: 804-698-4407
Last EDR Contact: 07/13/2015
Next Scheduled EDR Contact: 10/28/2015
Data Release Frequency: Varies

ENFORCEMENT: Enforcement Actions Data

A listing of enforcement actions.

Date of Government Version: 06/16/2015
Date Data Arrived at EDR: 06/18/2015
Date Made Active in Reports: 07/07/2015
Number of Days to Update: 19

Source: Department of Environmental Quality
Telephone: 804-698-4031
Last EDR Contact: 06/04/2015
Next Scheduled EDR Contact: 09/21/2015
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CEDS: Comprehensive Environmental Data System

Virginia Water Protection Permits, Virginia Pollution Discharge System (point discharge) permits and Virginia Pollution Abatement (no point discharge) permits.

Date of Government Version: 06/08/2015
Date Data Arrived at EDR: 06/09/2015
Date Made Active in Reports: 07/01/2015
Number of Days to Update: 22

Source: Department of Environmental Quality
Telephone: 804-698-4077
Last EDR Contact: 06/04/2015
Next Scheduled EDR Contact: 09/21/2015
Data Release Frequency: Semi-Annually

AIRS: Permitted Airs Facility List

A listing of permitted Airs facilities.

Date of Government Version: 06/11/2015
Date Data Arrived at EDR: 06/12/2015
Date Made Active in Reports: 07/01/2015
Number of Days to Update: 19

Source: Department of Environmental Quality
Telephone: 804-698-4000
Last EDR Contact: 06/01/2015
Next Scheduled EDR Contact: 09/14/2015
Data Release Frequency: Varies

TIER 2: Tier 2 Information Listing

A listing of facilities which store or manufacture hazardous materials and submit a chemical inventory report.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 12/21/2012
Date Made Active in Reports: 02/19/2013
Number of Days to Update: 60

Source: Department of Environmental Quality
Telephone: 804-698-4159
Last EDR Contact: 07/13/2015
Next Scheduled EDR Contact: 10/05/2015
Data Release Frequency: Annually

INDIAN RESERV: Indian Reservations

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

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/14/2015
Next Scheduled EDR Contact: 10/28/2015
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

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

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/21/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: Varies

2020 COR ACTION: 2020 Corrective Action Program List

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

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/14/2015
Next Scheduled EDR Contact: 08/24/2015
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 11/25/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/26/2014	Telephone: 703-603-8787
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 07/07/2015
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/19/2015
	Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

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

Date of Government Version: 04/05/2001	Source: American Journal of Public Health
Date Data Arrived at EDR: 10/27/2010	Telephone: 703-305-6451
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/02/2009
Number of Days to Update: 36	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 10/17/2014	Telephone: 202-564-6023
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 05/14/2015
Number of Days to Update: 3	Next Scheduled EDR Contact: 08/24/2015
	Data Release Frequency: Quarterly

FEDLAND: Federal and Indian Lands

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

Date of Government Version: 12/31/2005	Source: U.S. Geological Survey
Date Data Arrived at EDR: 02/06/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 07/14/2015
Number of Days to Update: 339	Next Scheduled EDR Contact: 10/28/2015
	Data Release Frequency: N/A

US FIN ASSUR: Financial Assurance Information

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

Date of Government Version: 03/09/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/10/2015	Telephone: 202-566-1917
Date Made Active in Reports: 03/25/2015	Last EDR Contact: 05/14/2015
Number of Days to Update: 15	Next Scheduled EDR Contact: 08/31/2015
	Data Release Frequency: Quarterly

Financial Assurance 2: Financial Assurance Information listing

Solid waste financial assurance information.

Date of Government Version: 05/02/2015	Source: Department of Environmental Quality
Date Data Arrived at EDR: 05/08/2015	Telephone: 804-698-4123
Date Made Active in Reports: 06/02/2015	Last EDR Contact: 05/04/2015
Number of Days to Update: 25	Next Scheduled EDR Contact: 08/17/2015
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/10/2014	Telephone: N/A
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 06/12/2015
Number of Days to Update: 40	Next Scheduled EDR Contact: 09/21/2015
	Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/19/2011	Telephone: 202-566-0517
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 05/01/2015
Number of Days to Update: 83	Next Scheduled EDR Contact: 08/10/2015
	Data Release Frequency: Varies

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 07/13/2015
Number of Days to Update: 76	Next Scheduled EDR Contact: 10/28/2015
	Data Release Frequency: Varies

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

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

Date of Government Version: 10/16/2014	Source: EPA
Date Data Arrived at EDR: 10/31/2014	Telephone: 202-564-2496
Date Made Active in Reports: 11/17/2014	Last EDR Contact: 06/22/2015
Number of Days to Update: 17	Next Scheduled EDR Contact: 10/05/2015
	Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/16/2014	Source: EPA
Date Data Arrived at EDR: 10/31/2014	Telephone: 202-564-2496
Date Made Active in Reports: 11/17/2014	Last EDR Contact: 06/22/2015
Number of Days to Update: 17	Next Scheduled EDR Contact: 10/22/2015
	Data Release Frequency: Annually

Financial Assurance 1: Financial Assurance Information Listing

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

Date of Government Version: 05/02/2015	Source: Department of Environmental Quality
Date Data Arrived at EDR: 05/08/2015	Telephone: 804-698-4205
Date Made Active in Reports: 07/13/2015	Last EDR Contact: 05/04/2015
Number of Days to Update: 66	Next Scheduled EDR Contact: 08/17/2015
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EPA WATCH LIST: EPA WATCH LIST

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

Date of Government Version: 08/30/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 05/07/2015
Number of Days to Update: 88	Next Scheduled EDR Contact: 08/24/2015
	Data Release Frequency: Quarterly

COAL ASH: Coal Ash Disposal Sites

A listing of facilities with coal ash impoundments.

Date of Government Version: 07/29/2009	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/31/2009	Telephone: 804-698-4285
Date Made Active in Reports: 08/21/2009	Last EDR Contact: 06/04/2015
Number of Days to Update: 21	Next Scheduled EDR Contact: 09/21/2015
	Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

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

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

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

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

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

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

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Virginia and at the Regional VA Levels.

Date of Government Version: N/A	Source: Department of Environmental Quality
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/15/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 198	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

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

Date of Government Version: N/A	Source: Department of Environmental Quality
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/20/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 203	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

OTHER DATABASE(S)

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

CT MANIFEST: Hazardous Waste Manifest Data

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

Date of Government Version: 07/30/2013	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 08/19/2013	Telephone: 860-424-3375
Date Made Active in Reports: 10/03/2013	Last EDR Contact: 05/18/2015
Number of Days to Update: 45	Next Scheduled EDR Contact: 08/31/2015
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 04/29/2015
Date Made Active in Reports: 05/29/2015
Number of Days to Update: 30

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/13/2015
Next Scheduled EDR Contact: 10/28/2015
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

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

Date of Government Version: 05/01/2015
Date Data Arrived at EDR: 05/06/2015
Date Made Active in Reports: 05/20/2015
Number of Days to Update: 14

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/06/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/21/2014
Date Made Active in Reports: 08/25/2014
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/20/2015
Next Scheduled EDR Contact: 11/02/2015
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/19/2015
Date Made Active in Reports: 07/15/2015
Number of Days to Update: 26

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/26/2015
Next Scheduled EDR Contact: 09/07/2015
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 03/19/2015
Date Made Active in Reports: 04/07/2015
Number of Days to Update: 19

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/11/2015
Next Scheduled EDR Contact: 09/28/2015
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: PennWell Corporation
Telephone: 281-546-1505

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

Electric Power Transmission Line Data

Source: PennWell Corporation
Telephone: 800-823-6277

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

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

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 804-692-1900

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

FULTON GAS WORKS
3301 WILLIAMSBURG AVENUE
RICHMOND, VA 23223

TARGET PROPERTY COORDINATES

Latitude (North):	37.5236 - 37° 31' 24.96"
Longitude (West):	77.4155 - 77° 24' 55.80"
Universal Transverse Mercator:	Zone 18
UTM X (Meters):	286539.2
UTM Y (Meters):	4155496.8
Elevation:	14 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5951487 RICHMOND, VA
Version Date:	2013

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

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

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

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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

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

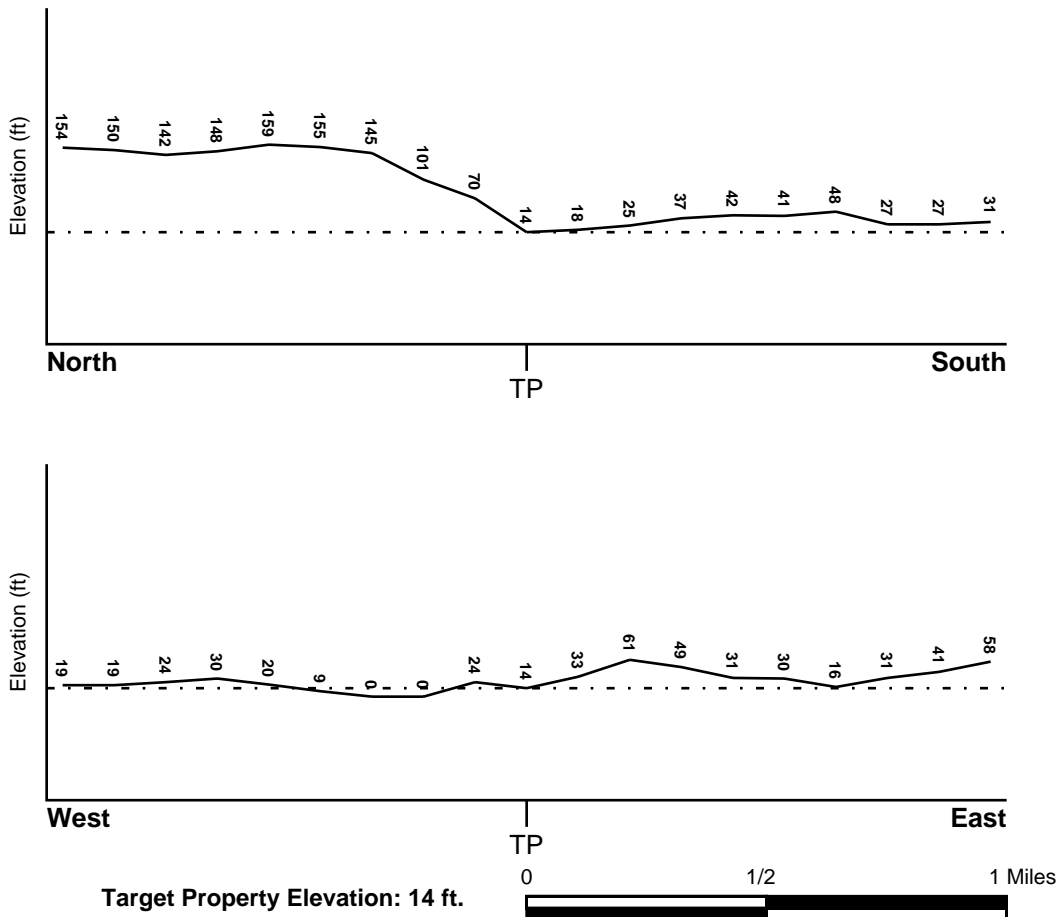
TOPOGRAPHIC INFORMATION

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

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

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

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

FEMA FLOOD ZONE

<u>Target Property County</u> RICHMOND CITY, VA	<u>FEMA Flood Electronic Data</u> YES - refer to the Overview Map and Detail Map
Flood Plain Panel at Target Property:	510129 - FEMA DFIRM Flood data
Additional Panels in search area:	51087C - FEMA DFIRM Flood data

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u> RICHMOND	<u>NWI Electronic Data Coverage</u> YES - refer to the Overview Map and Detail Map
------------------------------------------------	---------------------------------------------------------------------------------------

HYDROGEOLOGIC INFORMATION

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

Site-Specific Hydrogeological Data:*

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

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

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

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

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

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

ROCK STRATIGRAPHIC UNIT

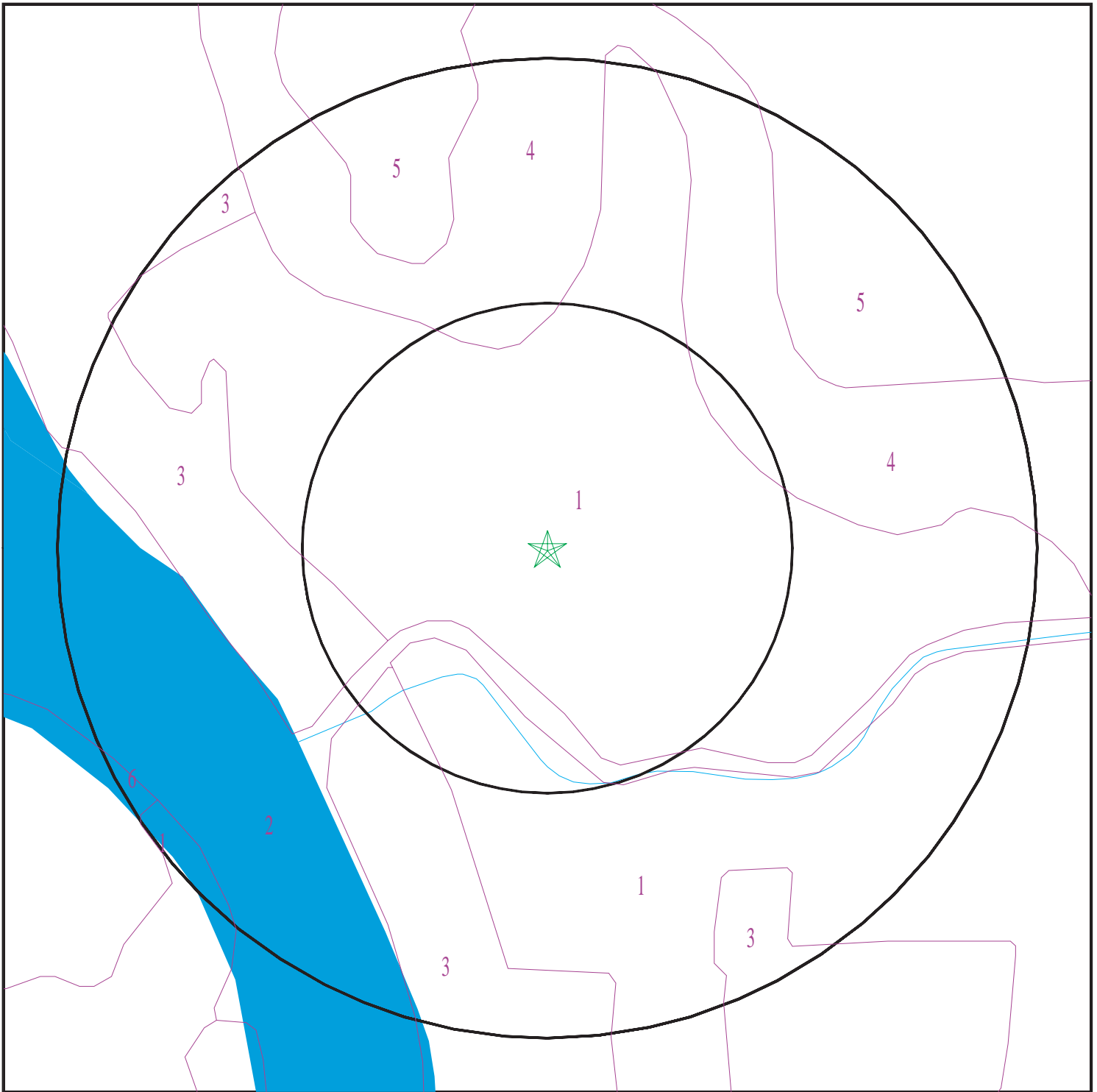
Era:	Mesozoic
System:	Cretaceous
Series:	Lower Cretaceous
Code:	IK <i>(decoded above as Era, System & Series)</i>

GEOLOGIC AGE IDENTIFICATION

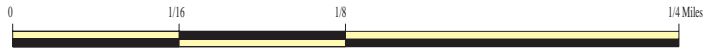
Category: Stratified Sequence

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

SSURGO SOIL MAP - 4370257.2s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: Fulton Gas Works
ADDRESS: 3301 Williamsburg Avenue
Richmond VA 23223
LAT/LONG: 37.5236 / 77.4155

CLIENT: Timmons Group
CONTACT: Chase Farnsworth
INQUIRY #: 4370257.2s
DATE: July 31, 2015 1:41 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

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

Soil Map ID: 1

Soil Component Name: Udorthents

Soil Surface Texture:
Hydrologic Group: Not reported

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 2

Soil Component Name: Water

Soil Surface Texture:
Hydrologic Group: Not reported

Soil Drainage Class:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 3

Soil Component Name: Urban land

Soil Surface Texture:
Hydrologic Group: Not reported

Soil Drainage Class:

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 4

Soil Component Name: Wateree

Soil Surface Texture: sandy loam

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

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 4.5
2	9 inches	22 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 141 Min: 42	Max: 6 Min: 4.5

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
3	22 inches	79 inches	bedrock	Not reported	Not reported	Max: 0.42 Min: 0	Max: Min:

Soil Map ID: 5

Soil Component Name: Atlee

Soil Surface Texture: very fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	very fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 3.6
2	11 inches	22 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 5.5 Min: 3.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
3	22 inches	53 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 4 Min: 1.4	Max: 5.5 Min: 3.6
4	53 inches	78 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 14 Min: 1.4	Max: 5.5 Min: 3.6

Soil Map ID: 6

Soil Component Name: Riverview

Soil Surface Texture: silt loam

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

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 152 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 14 Min: 4	Max: 6.5 Min: 4.5

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	5 inches	27 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	27 inches	78 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 42 Min: 14	Max: 6 Min: 4.5

LOCAL / REGIONAL WATER AGENCY RECORDS

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

WELL SEARCH DISTANCE INFORMATION

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

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

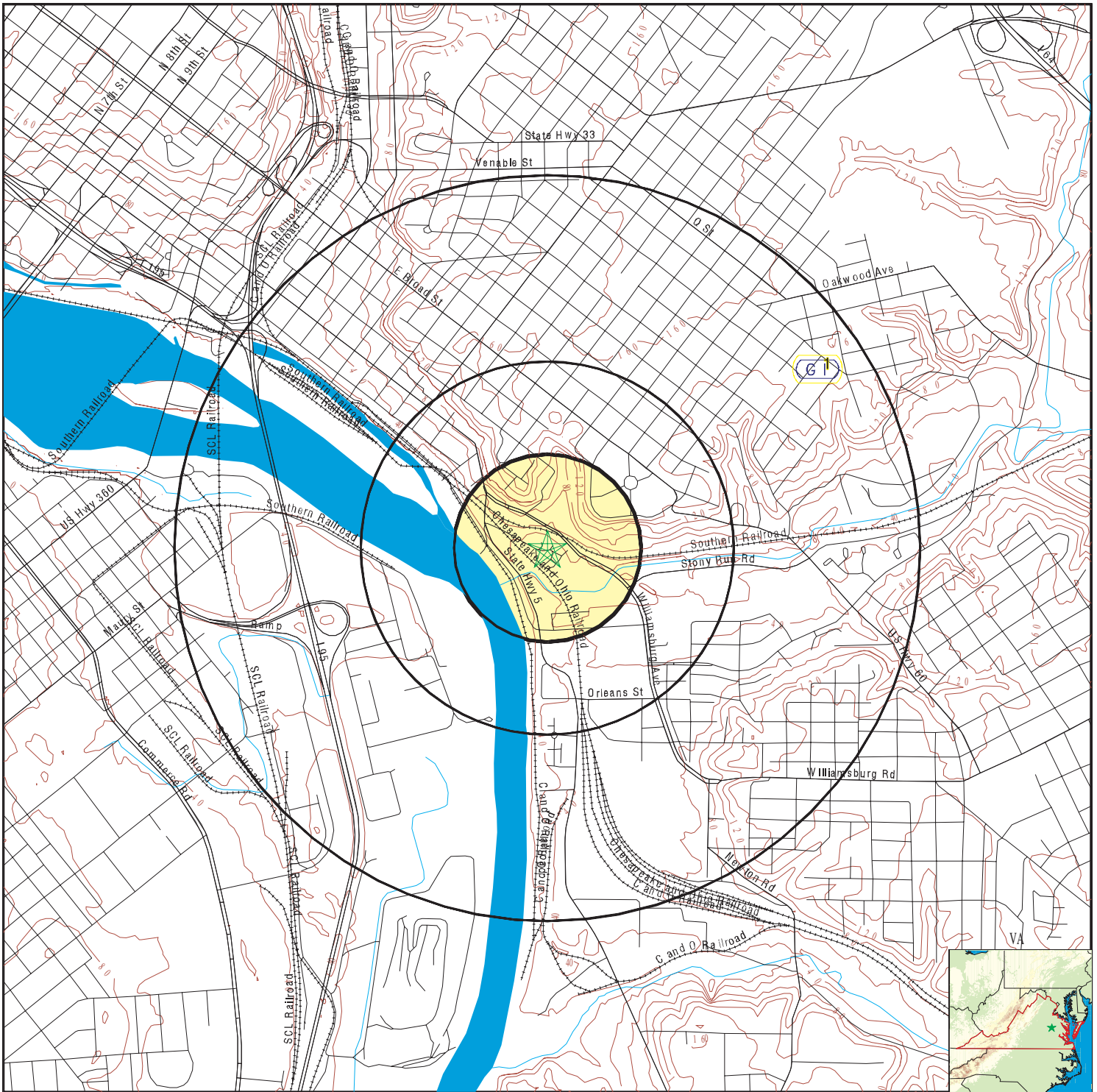
MAP ID	WELL ID	LOCATION FROM TP
<u> </u>	<u> </u>	<u> </u>
No PWS System Found		








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





STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
<u> </u>	<u> </u>	<u> </u>
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 4370257.2s



-  County Boundary
-  Major Roads
-  Contour Lines
-  Earthquake epicenter, Richter 5 or greater
-  Water Wells
-  Public Water Supply Wells
-  Cluster of Multiple Icons

-  Groundwater Flow Direction
-  Indeterminate Groundwater Flow at Location
-  Groundwater Flow Varies at Location
-  Closest Hydrogeological Data



SITE NAME: Fulton Gas Works
 ADDRESS: 3301 Williamsburg Avenue
 Richmond VA 23223
 LAT/LONG: 37.5236 / 77.4155

CLIENT: Timmons Group
 CONTACT: Chase Farnsworth
 INQUIRY #: 4370257.2s
 DATE: July 31, 2015 1:40 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

1
ENE
1/2 - 1 Mile
Higher

Site ID: 4-026540
Groundwater Flow: Not Reported
Shallowest Water Table Depth: 13.13
Deepest Water Table Depth: 27.79
Average Water Table Depth: Not Reported
Date: 07/10/1991

AQUIFLOW 72162

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

EPA Region 3 Statistical Summary Readings for Zip Code: 23223

Number of sites tested: 40.

Maximum Radon Level: 15.6 pCi/L.

Minimum Radon Level: -0.2 pCi/L.

pCi/L <4	pCi/L 4-10	pCi/L 10-20	pCi/L 20-50	pCi/L 50-100	pCi/L >100
33 (82.50%)	5 (12.50%)	2 (5.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)

Federal EPA Radon Zone for RICHMOND CITY 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.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

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

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

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

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

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

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

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

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

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

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Virginia Public Water Supplies

Source: Department of Health, Office of Water Programs

Telephone: 804-786-1756

OTHER STATE DATABASE INFORMATION

Virginia Oil and Gas Wells

Source: Department of Mines, Minerals and Energy

Telephone: 804-692-3200

A listing of oil and gas well locations

RADON

Area Radon Information

Source: USGS

Telephone: 703-356-4020

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

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

EPA Region 3 Statistical Summary Readings

Source: Region 3 EPA

Telephone: 215-814-2082

Radon readings for Delaware, D.C., Maryland, Pennsylvania, Virginia and West Virginia.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

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

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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APPENDIX 5

The EDR Aerial Photo Decade Package



RRHA East End Properties

3409 Williamsburg Avenue
Richmond, VA 23231

Inquiry Number: 3999963.9
July 09, 2014

The EDR Aerial Photo Decade Package



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

EDR Aerial Photo Decade Package

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.

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Please contact EDR at 1-800-352-0050
with any questions or comments.

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SUBJECT PROPERTY

INQUIRY #: 3999963.9

YEAR: 1942

| = 500'





SUBJECT PROPERTY

INQUIRY #: 3999963.9

YEAR: 1952

| = 500'



SUBJECT PROPERTY

INQUIRY #: 3999963.9

YEAR: 1959

| = 500'



SUBJECT PROPERTY



INQUIRY #: 3999963.9

YEAR: 1965

| = 500'



SUBJECT PROPERTY

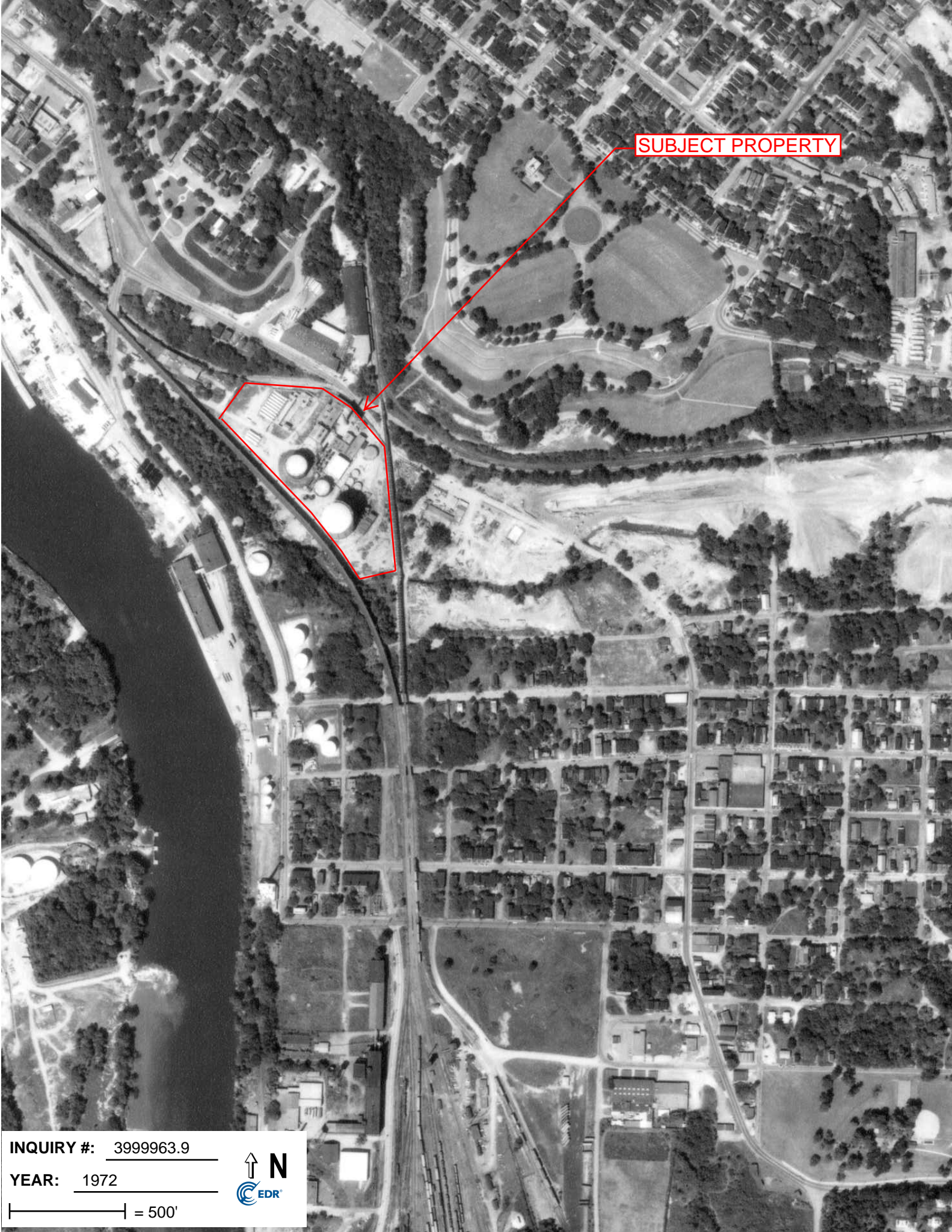


INQUIRY #: 3999963.9

YEAR: 1968

| = 500'





SUBJECT PROPERTY

INQUIRY #: 3999963.9

YEAR: 1972

| = 500'





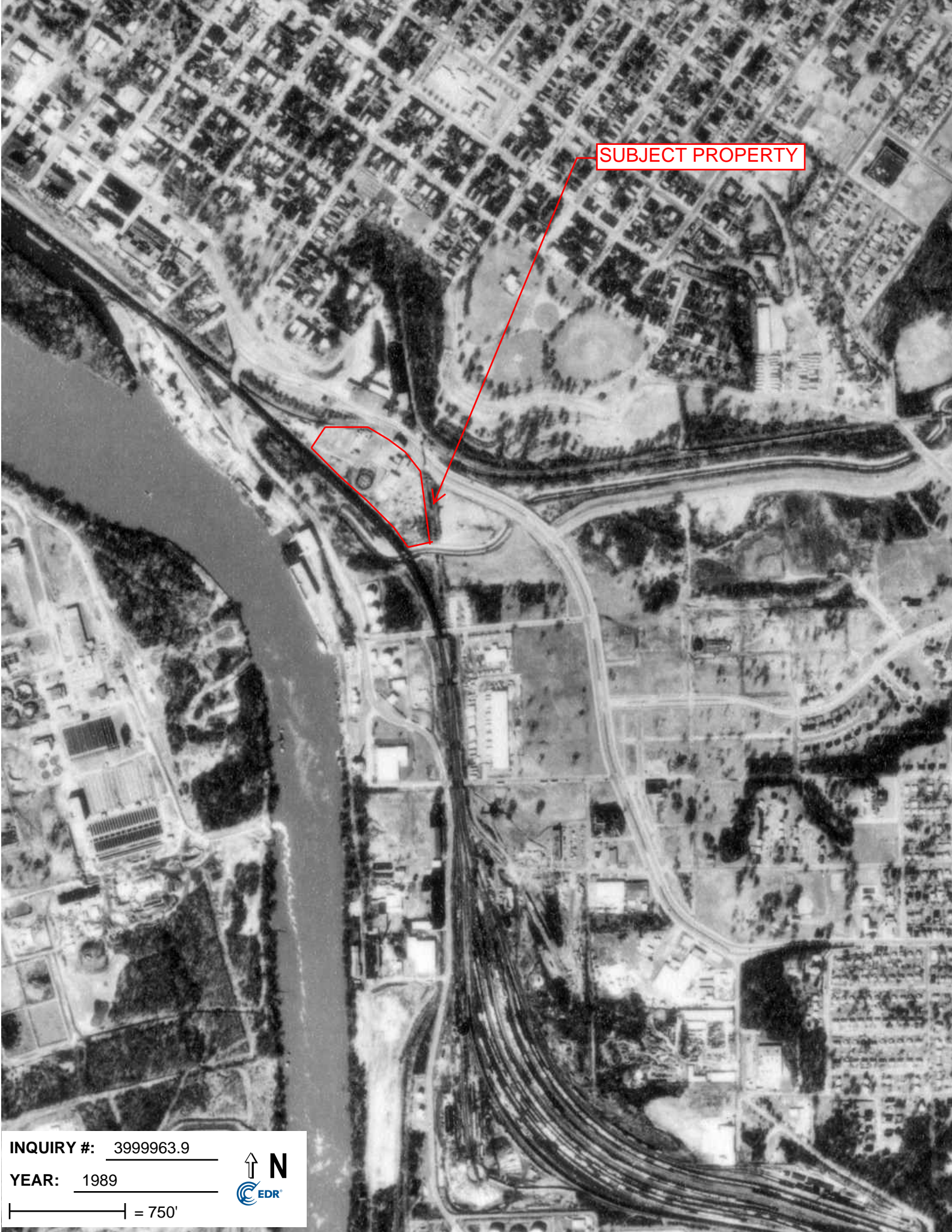
SUBJECT PROPERTY

INQUIRY #: 3999963.9

YEAR: 1980

| = 750'





SUBJECT PROPERTY

INQUIRY #: 3999963.9

YEAR: 1989

| = 750'



SUBJECT PROPERTY

INQUIRY #: 3999963.9

YEAR: 1994

| = 500'



SUBJECT PROPERTY



INQUIRY #: 3999963.9

YEAR: 2005

| = 500'



SUBJECT PROPERTY

INQUIRY #: 3999963.9

YEAR: 2009

| = 500'



SUBJECT PROPERTY



INQUIRY #: 3999963.9

YEAR: 2011

| = 500'



SUBJECT PROEPRTY

INQUIRY #: 3999963.9

YEAR: 2012

| = 500'



APPENDIX 6

The EDR City Directory Abstract

Fulton Gas Works

3301 Williamsburg Avenue
Richmond, VA 23223

Inquiry Number: 4370257.5
July 31, 2015

The EDR-City Directory Abstract

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

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

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2013. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
2013	Cole Information Services	-	X	X	-
2008	Cole Information Services	-	-	-	-
2003	Polk City Directory	-	X	X	-
1996	R.L. Polk & Co Publishers	X	X	X	-
1991	R.L. Polk & Co Publishers	X	X	X	-
1987	R.L. POLK & CO. PUBLISHERS	X	X	X	-
1983	R.L. Polk & Co Publishers	X	X	X	-
1978	Hill Directory Co. Inc. Publishers	X	X	X	-
1973	Hill Directory Co Inc Publishers	-	X	X	-
1968	Hill Directory Co. Inc. Publishers	-	X	X	-
1963	Hill Directory Co. Inc. Publishers	-	X	X	-
1960	Hill Directory Co. Inc. Publishers	-	X	X	-
1959	Hill Directory Co. Inc. Publishers	-	-	-	-
1955	Hill Directory Co Inc Publishers	-	X	X	-
1951	Hill Directory Co. Inc. Publishers	-	X	X	-
1946	Hill Directory Co. Inc. Publishers	-	X	X	-
1940	Hill Directory Co Inc Publishers	-	X	X	-
1935	Hill Directory Co. Inc. Publishers	-	X	X	-
1930	Hill Directory Co. Inc. Publishers	-	X	X	-
1925	Hill Directory Co. Inc. Publishers	-	X	X	-
1920	Hill Directory Co. Inc. Publishers	-	X	X	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

3301 Williamsburg Avenue
Richmond, VA 23223

FINDINGS DETAIL

Target Property research detail.

WILLIAMSBURG AVE

3301 WILLIAMSBURG AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1991	GILLIES CREEK BRIDGE	R.L. Polk & Co Publishers
	No Return	R.L. Polk & Co Publishers
1987	Vacant	R.L. POLK & CO. PUBLISHERS
1983	City Dept Public Utilities Fulton Gas Works	R.L. Polk & Co Publishers
1978	Fulton Gas Wks plant	Hill Directory Co. Inc. Publishers

WILLIAMSBURG RD

3301 WILLIAMSBURG RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1996	+GILLIES CREEK BRIDGE	R.L. Polk & Co Publishers
	Vacant	R.L. Polk & Co Publishers

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

31ST N

1 31ST N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1960	Hunter Robt H	Hill Directory Co. Inc. Publishers
1955	Gunn Mary Mrs	Hill Directory Co Inc Publishers

6 31ST N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1960	Jones Toxie M	Hill Directory Co. Inc. Publishers
1955	Jones Chuck	Hill Directory Co Inc Publishers

8 31ST N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1960	Wylie Geo F	Hill Directory Co. Inc. Publishers
1955	Wylie Geo F	Hill Directory Co Inc Publishers

31ST ST N

1 31ST ST N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1973	Vacant	Hill Directory Co Inc Publishers
1968	RICHARDSON ROOT	Hill Directory Co. Inc. Publishers
1963	Jones Russell R	Hill Directory Co. Inc. Publishers
	Hunter Robt H	Hill Directory Co. Inc. Publishers
1951	Gunn Jos W	Hill Directory Co. Inc. Publishers
1930	Vacant	Hill Directory Co. Inc. Publishers
1925	Randolph Dock	Hill Directory Co. Inc. Publishers
1920	Gunn Joseph	Hill Directory Co. Inc. Publishers

2 31ST ST N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	Vacant	Hill Directory Co. Inc. Publishers
1920	Mc Coy Saml	Hill Directory Co. Inc. Publishers

FINDINGS

3 31ST ST N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Smith Mamie c	Hill Directory Co. Inc. Publishers
1925	Vacant	Hill Directory Co. Inc. Publishers
1920	Mc Kinley James	Hill Directory Co. Inc. Publishers

4 31ST ST N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	Hill Mary	Hill Directory Co. Inc. Publishers
1920	Ruffin Joseph	Hill Directory Co. Inc. Publishers

6 31ST ST N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1987	No Return	R.L. POLK & CO. PUBLISHERS
1983	Mc Koy Leonard	R.L. Polk & Co Publishers
1973	Witcher Toxie M	Hill Directory Co Inc Publishers
1968	NO RETURN	Hill Directory Co. Inc. Publishers
1963	Jones Toxie M	Hill Directory Co. Inc. Publishers
1951	Jones John D	Hill Directory Co. Inc. Publishers
1946	Bassett Jas	Hill Directory Co. Inc. Publishers
1935	Vacant	Hill Directory Co. Inc. Publishers
1930	Vacant	Hill Directory Co. Inc. Publishers
1925	Vacant	Hill Directory Co. Inc. Publishers
1920	Childrey Nat	Hill Directory Co. Inc. Publishers

8 31ST ST N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1987	No Return	R.L. POLK & CO. PUBLISHERS
1983	Hall Loretta	R.L. Polk & Co Publishers
1978	Me Koy Lenon	Hill Directory Co. Inc. Publishers
1973	Wylie Geo F	Hill Directory Co Inc Publishers
1968	WYLIE GEO F	Hill Directory Co. Inc. Publishers
1963	Wylie Geo F	Hill Directory Co. Inc. Publishers
1951	Wylie Geo F	Hill Directory Co. Inc. Publishers
1946	Wiley Geo	Hill Directory Co. Inc. Publishers
1935	Wiley Geo	Hill Directory Co. Inc. Publishers
1930	Wiley Geo c	Hill Directory Co. Inc. Publishers
1925	Wiley Geo	Hill Directory Co. Inc. Publishers
1920	Peterson Esau	Hill Directory Co. Inc. Publishers

FINDINGS

S 31ST ST W

1 S 31ST ST W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	Savoy J A	Hill Directory Co. Inc. Publishers

16 S 31ST ST W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	Walthall H R	Hill Directory Co. Inc. Publishers

2 S 31ST ST W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	Coleman E W	Hill Directory Co. Inc. Publishers

3 S 31ST ST W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	Sinclair A F Mrs	Hill Directory Co. Inc. Publishers

5 S 31ST ST W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	Cox E M	Hill Directory Co. Inc. Publishers

6 S 31ST ST W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	Jeffers W W	Hill Directory Co. Inc. Publishers

7 S 31ST ST W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	Vacant	Hill Directory Co. Inc. Publishers

9 S 31ST ST W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	Rex F M	Hill Directory Co. Inc. Publishers

WILLIAMSBURG AVE

3200 WILLIAMSBURG AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	STORE PACK & SHIP marketing programs & serv	Polk City Directory
	RAUIRADCONTINES	Polk City Directory
1991	2911 3200 Vacant 2 Hses	R.L. Polk & Co Publishers

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1978	Continental Can Co Inc Corrugated Container Div	Hill Directory Co. Inc. Publishers
1973	Container Div I	Hill Directory Co Inc Publishers
	Continental Can Co Inc Corrugated	Hill Directory Co Inc Publishers
1968	CONTINENTAL CAN CO INC	Hill Directory Co. Inc. Publishers
	CORRUGATED CONTAINER DIV	Hill Directory Co. Inc. Publishers
1963	Continental Can Co Inc Corrugated Container Div	Hill Directory Co. Inc. Publishers
1960	Continental Can Co Inc Robt Gair	Hill Directory Co. Inc. Publishers
	Paper Products Group Fibre	Hill Directory Co. Inc. Publishers
	Drum & Corrugated Box Div	Hill Directory Co. Inc. Publishers
1951	Fibre Board Container Corp box mfrs	Hill Directory Co. Inc. Publishers
1946	Fibre Board Container Co box mfrs	Hill Directory Co. Inc. Publishers
1940	3200 20 Fibre Board Container Co box mfrs	Hill Directory Co Inc Publishers
1935	Alcatraz Co Inc The paint mfrs	Hill Directory Co. Inc. Publishers
1930	3200 3220 Alcatraz Co Inc The roofers	Hill Directory Co. Inc. Publishers
1925	Alcatraz Co Inc The	Hill Directory Co. Inc. Publishers
1920	Alcatraz Co Inc The	Hill Directory Co. Inc. Publishers

3201 WILLIAMSBURG AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1946	Fibre Board Container Co box mfrs	Hill Directory Co. Inc. Publishers
1935	Alcatraz Co Inc The paint mfrs	Hill Directory Co. Inc. Publishers
	Vacant	Hill Directory Co. Inc. Publishers
1930	Booker Inez c	Hill Directory Co. Inc. Publishers
1925	Booker Wim	Hill Directory Co. Inc. Publishers
1920	Booker Wm	Hill Directory Co. Inc. Publishers

3202 WILLIAMSBURG AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1946	Fibre Board Container Co box mfrs	Hill Directory Co. Inc. Publishers
1935	Alcatraz Co Inc The paint mfrs	Hill Directory Co. Inc. Publishers

3203 WILLIAMSBURG AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1946	Fibre Board Container Co box mfrs	Hill Directory Co. Inc. Publishers
1935	Alcatraz Co Inc The paint mfrs	Hill Directory Co. Inc. Publishers
1925	Pollard Oscar	Hill Directory Co. Inc. Publishers
	Davis Eliza	Hill Directory Co. Inc. Publishers
1920	Crump Abraham	Hill Directory Co. Inc. Publishers

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	Vacant	Hill Directory Co. Inc. Publishers

3204 WILLIAMSBURG AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1946	Fibre Board Container Co box mfrs	Hill Directory Co. Inc. Publishers
1935	Alcatraz Co Inc The paint mfrs	Hill Directory Co. Inc. Publishers

3205 WILLIAMSBURG AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1946	Fibre Board Container Co box mfrs	Hill Directory Co. Inc. Publishers
1935	Alcatraz Co Inc The paint mfrs	Hill Directory Co. Inc. Publishers
1925	Morgan Jno	Hill Directory Co. Inc. Publishers
	Skipwith Georgia A	Hill Directory Co. Inc. Publishers
1920	Skipwith Georgie A	Hill Directory Co. Inc. Publishers

3206 WILLIAMSBURG AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1946	Fibre Board Container Co box mfrs	Hill Directory Co. Inc. Publishers
1935	Alcatraz Co Inc The paint mfrs	Hill Directory Co. Inc. Publishers

3207 WILLIAMSBURG AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1946	Fibre Board Container Co box mfrs	Hill Directory Co. Inc. Publishers
1935	Alcatraz Co Inc The paint mfrs	Hill Directory Co. Inc. Publishers
1925	Covington Jno	Hill Directory Co. Inc. Publishers
1920	Johnson Julia	Hill Directory Co. Inc. Publishers

3208 WILLIAMSBURG AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1946	Fibre Board Container Co box mfrs	Hill Directory Co. Inc. Publishers
1935	Alcatraz Co Inc The paint mfrs	Hill Directory Co. Inc. Publishers

3209 WILLIAMSBURG AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1946	Fibre Board Container Co box mfrs	Hill Directory Co. Inc. Publishers
1935	Alcatraz Co Inc The paint mfrs	Hill Directory Co. Inc. Publishers
1925	Flevis Thos	Hill Directory Co. Inc. Publishers
	Washington fteo	Hill Directory Co. Inc. Publishers
1920	Vacant	Hill Directory Co. Inc. Publishers

FINDINGS

3210 WILLIAMSBURG AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1946	Fibre Board Container Co box mfrs	Hill Directory Co. Inc. Publishers
1935	Alcatraz Co Inc The paint mfrs	Hill Directory Co. Inc. Publishers
1925	3210 3220 Fibre Board Container Co	Hill Directory Co. Inc. Publishers
1920	3210 3220 Fibre Board Container Co	Hill Directory Co. Inc. Publishers

3211 WILLIAMSBURG AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1946	Fibre Board Container Co box mfrs	Hill Directory Co. Inc. Publishers
1935	Alcatraz Co Inc The paint mfrs	Hill Directory Co. Inc. Publishers
1925	White Catherine	Hill Directory Co. Inc. Publishers
1920	White Catherine	Hill Directory Co. Inc. Publishers

3212 WILLIAMSBURG AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1946	Fibre Board Container Co box mfrs	Hill Directory Co. Inc. Publishers
1935	Alcatraz Co Inc The paint mfrs	Hill Directory Co. Inc. Publishers

3213 WILLIAMSBURG AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1946	Fibre Board Container Co box mfrs	Hill Directory Co. Inc. Publishers
1935	Alcatraz Co Inc The paint mfrs	Hill Directory Co. Inc. Publishers
1925	Holmes Henry	Hill Directory Co. Inc. Publishers
1920	Holmes Henry	Hill Directory Co. Inc. Publishers

3214 WILLIAMSBURG AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1946	Fibre Board Container Co box mfrs	Hill Directory Co. Inc. Publishers
1935	Alcatraz Co Inc The paint mfrs	Hill Directory Co. Inc. Publishers

3215 WILLIAMSBURG AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1946	Fibre Board Container Co box mfrs	Hill Directory Co. Inc. Publishers
1935	Alcatraz Co Inc The paint mfrs	Hill Directory Co. Inc. Publishers

3216 WILLIAMSBURG AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1946	Fibre Board Container Co box mfrs	Hill Directory Co. Inc. Publishers
1935	Alcatraz Co Inc The paint mfrs	Hill Directory Co. Inc. Publishers

FINDINGS

3217 WILLIAMSBURG AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1946	Fibre Board Container Co box mfrs	Hill Directory Co. Inc. Publishers
1935	Alcatraz Co Inc The paint mfrs	Hill Directory Co. Inc. Publishers

3218 WILLIAMSBURG AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1946	Fibre Board Container Co box mfrs	Hill Directory Co. Inc. Publishers
1935	Alcatraz Co Inc The paint mfrs	Hill Directory Co. Inc. Publishers

3219 WILLIAMSBURG AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1946	Fibre Board Container Co box mfrs	Hill Directory Co. Inc. Publishers
1935	Alcatraz Co Inc The paint mfrs	Hill Directory Co. Inc. Publishers

3220 WILLIAMSBURG AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1951	Fibre Board Container Corp box mfrs	Hill Directory Co. Inc. Publishers
1946	Fibre Board Container Co box mfrs	Hill Directory Co. Inc. Publishers
1940	3200 20 Fibre Board Container Co box mfrs	Hill Directory Co Inc Publishers
1935	Alcatraz Co Inc The paint mfrs	Hill Directory Co. Inc. Publishers
	Fibre Board Container Co box mfrs	Hill Directory Co. Inc. Publishers
1930	Fibre Board Container Co Inc	Hill Directory Co. Inc. Publishers
	3200 3220 Alcatraz Co Inc The roofers	Hill Directory Co. Inc. Publishers
1925	3210 3220 Fibre Board Container Co	Hill Directory Co. Inc. Publishers
1920	3210 3220 Fibre Board Container Co	Hill Directory Co. Inc. Publishers

3221 WILLIAMSBURG AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1963	City Gas Wks plant	Hill Directory Co. Inc. Publishers
1960	City Gas Wks plant	Hill Directory Co. Inc. Publishers
	C&O overpass	Hill Directory Co. Inc. Publishers
	Gillies Creek Bridge	Hill Directory Co. Inc. Publishers
1951	Richmond City Gas Wks plant	Hill Directory Co. Inc. Publishers
1946	Rd City Gas Wks plant	Hill Directory Co. Inc. Publishers
1940	Rd City Gas Wks plant	Hill Directory Co Inc Publishers
1935	Rd City Gas Wks plant	Hill Directory Co. Inc. Publishers
1930	City Gas Works plant	Hill Directory Co. Inc. Publishers
1925	Richmond City Gas Wks plant	Hill Directory Co. Inc. Publishers

FINDINGS

3300 WILLIAMSBURG AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1973	City Gas Wks plant	Hill Directory Co Inc Publishers
1968	CITY GAS WKS PLANT	Hill Directory Co. Inc. Publishers
	CEO OVERPAs SS	Hill Directory Co. Inc. Publishers
	GILLIES CREEK BRIDGE	Hill Directory Co. Inc. Publishers

3308 WILLIAMSBURG AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	SPORTMAN RESTAURANT & LOUNGE	Cole Information Services

3321 WILLIAMSBURG AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	Richmond City Gas Wks plant	Hill Directory Co. Inc. Publishers Hill Directory Co. Inc. Publishers

3400 WILLIAMSBURG AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	MOON GARDEN RESTAURANT	Cole Information Services
1940	Rilee R Magruder lbr	Hill Directory Co Inc Publishers
1935	Rilee R Magruder lbr	Hill Directory Co. Inc. Publishers
1930	Rilee R Magruder bldg matl	Hill Directory Co. Inc. Publishers
1925	Stagg Thos E & Co	Hill Directory Co. Inc. Publishers
1920	Stagg Thos E & Co Inc	Hill Directory Co. Inc. Publishers

3408 WILLIAMSBURG AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1946	Vacant	Hill Directory Co. Inc. Publishers

3409 WILLIAMSBURG AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1963	Johnnies Surplus & Sup	Hill Directory Co. Inc. Publishers
1960	Johnnies Surplus & Sup	Hill Directory Co. Inc. Publishers
1951	Gillies Creek bridge	Hill Directory Co. Inc. Publishers
	Vacant	Hill Directory Co. Inc. Publishers
1940	Armitage Earl Q roofer	Hill Directory Co Inc Publishers
1935	Armitage Earl Q roofer	Hill Directory Co. Inc. Publishers
1930	Armitage Mfg Co roofers	Hill Directory Co. Inc. Publishers
1925	Armitage Mfg Co	Hill Directory Co. Inc. Publishers
1920	Armitage Mfg Co	Hill Directory Co. Inc. Publishers

FINDINGS

3422 WILLIAMSBURG AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1973	Vacant	Hill Directory Co Inc Publishers
1968	AUTO PARTS R E S AUTO WRECKING CO USED	Hill Directory Co. Inc. Publishers Hill Directory Co. Inc. Publishers
1963	R & S Auto Wrecking Co used auto parts	Hill Directory Co. Inc. Publishers
1960	parts R&S Auto Wrecking Co used auto	Hill Directory Co. Inc. Publishers Hill Directory Co. Inc. Publishers

3429 WILLIAMSBURG AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Vacant	Hill Directory Co. Inc. Publishers
1925	Brown Augustus	Hill Directory Co. Inc. Publishers
1920	Johnson Benj	Hill Directory Co. Inc. Publishers

WILLIAMSBURG RD

3118 WILLIAMSBURG RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1955	Carls Fountain restr	Hill Directory Co Inc Publishers
1951	Carls Fountain restr	Hill Directory Co. Inc. Publishers

3200 WILLIAMSBURG RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1996	glueing co GLUEING SERVICES INC	R.L. Polk & Co Publishers R.L. Polk & Co Publishers
1955	Gwaltney Leon R	Hill Directory Co Inc Publishers
1951	Gwaltney Leon R	Hill Directory Co. Inc. Publishers

3201 WILLIAMSBURG RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1955	Mc Cuiston John F s	Hill Directory Co Inc Publishers

3202 WILLIAMSBURG RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1955	OConnor Patk A	Hill Directory Co Inc Publishers
1951	OConnor Patk	Hill Directory Co. Inc. Publishers

3203 WILLIAMSBURG RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1996	YELLOW CAB SERV INC	R.L. Polk & Co Publishers

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1955	Gifford Ellis M jr	Hill Directory Co Inc Publishers
1951	McCuiston John F	Hill Directory Co. Inc. Publishers

3204 WILLIAMSBURG RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1955	Miller Richd	Hill Directory Co Inc Publishers
1951	Miller Richd	Hill Directory Co. Inc. Publishers

3206 WILLIAMSBURG RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1955	Foltz John D jr	Hill Directory Co Inc Publishers
1951	Foltz John D jr	Hill Directory Co. Inc. Publishers

3208 WILLIAMSBURG RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1955	Mahone Bernard L jr	Hill Directory Co Inc Publishers
1951	Hahone Bernard L jr	Hill Directory Co. Inc. Publishers

3210 WILLIAMSBURG RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1955	Bowers B Vernon	Hill Directory Co Inc Publishers
1951	Bowers Boyse V	Hill Directory Co. Inc. Publishers

3211 WILLIAMSBURG RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1951	Gifford Ellis M	Hill Directory Co. Inc. Publishers

3212 WILLIAMSBURG RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1955	Brothers Win V	Hill Directory Co Inc Publishers
1951	Brothers Wm V	Hill Directory Co. Inc. Publishers

3215 WILLIAMSBURG RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1955	Gifford John T	Hill Directory Co Inc Publishers
	Gifford Ellis M	Hill Directory Co Inc Publishers
	2 H&S Mid gros	Hill Directory Co Inc Publishers
1951	Gifford Ellis M jr	Hill Directory Co. Inc. Publishers

FINDINGS

3300 WILLIAMSBURG RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1955	Stanebury Jas T	Hill Directory Co Inc Publishers
1951	Stansbury Jas T	Hill Directory Co. Inc. Publishers

3302 WILLIAMSBURG RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1955	Farrow Nim A	Hill Directory Co Inc Publishers
1951	Farrow Nimrod A	Hill Directory Co. Inc. Publishers

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched

3301 Williamsburg Avenue

Address Not Identified in Research Source

2013, 2008, 2003, 1973, 1968, 1963, 1960, 1959, 1955, 1951, 1946, 1940, 1935, 1930, 1925, 1920

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched

1 31ST N

Address Not Identified in Research Source

2013, 2008, 2003, 1996, 1991, 1987, 1983, 1978, 1973, 1968, 1963, 1959, 1951, 1946, 1940, 1935, 1930, 1925, 1920

1 31ST ST N

2013, 2008, 2003, 1996, 1991, 1987, 1983, 1978, 1960, 1959, 1955, 1946, 1940, 1935

1 S 31ST ST W

2013, 2008, 2003, 1996, 1991, 1987, 1983, 1978, 1973, 1968, 1963, 1960, 1959, 1955, 1951, 1946, 1940, 1935, 1930, 1920

16 S 31ST ST W

2013, 2008, 2003, 1996, 1991, 1987, 1983, 1978, 1973, 1968, 1963, 1960, 1959, 1955, 1951, 1946, 1940, 1935, 1930, 1920

2 31ST ST N

2013, 2008, 2003, 1996, 1991, 1987, 1983, 1978, 1973, 1968, 1963, 1960, 1959, 1955, 1951, 1946, 1940, 1935, 1930

2 S 31ST ST W

2013, 2008, 2003, 1996, 1991, 1987, 1983, 1978, 1973, 1968, 1963, 1960, 1959, 1955, 1951, 1946, 1940, 1935, 1930, 1920

3 31ST ST N

2013, 2008, 2003, 1996, 1991, 1987, 1983, 1978, 1973, 1968, 1963, 1960, 1959, 1955, 1951, 1946, 1940, 1935

3 S 31ST ST W

2013, 2008, 2003, 1996, 1991, 1987, 1983, 1978, 1973, 1968, 1963, 1960, 1959, 1955, 1951, 1946, 1940, 1935, 1930, 1920

3118 WILLIAMSBURG RD

2013, 2008, 2003, 1996, 1991, 1987, 1983, 1978, 1973, 1968, 1963, 1960, 1959, 1946, 1940, 1935, 1930, 1925, 1920

3200 WILLIAMSBURG AVE

2013, 2008, 1996, 1987, 1983, 1959, 1955

3200 WILLIAMSBURG RD

2013, 2008, 2003, 1991, 1987, 1983, 1978, 1973, 1968, 1963, 1960, 1959, 1946, 1940, 1935, 1930, 1925, 1920

3201 WILLIAMSBURG AVE

2013, 2008, 2003, 1996, 1991, 1987, 1983, 1978, 1973, 1968, 1963, 1960, 1959, 1955, 1951, 1940

3201 WILLIAMSBURG RD

2013, 2008, 2003, 1996, 1991, 1987, 1983, 1978, 1973, 1968, 1963, 1960, 1959, 1951, 1946, 1940, 1935, 1930, 1925, 1920

3202 WILLIAMSBURG AVE

2013, 2008, 2003, 1996, 1991, 1987, 1983, 1978, 1973, 1968, 1963, 1960, 1959, 1955, 1951, 1940, 1930, 1925, 1920

3202 WILLIAMSBURG RD

2013, 2008, 2003, 1996, 1991, 1987, 1983, 1978, 1973, 1968, 1963, 1960, 1959, 1946, 1940, 1935, 1930, 1925, 1920

3203 WILLIAMSBURG AVE

2013, 2008, 2003, 1996, 1991, 1987, 1983, 1978, 1973, 1968, 1963, 1960, 1959, 1955, 1951, 1940, 1930

3203 WILLIAMSBURG RD

2013, 2008, 2003, 1991, 1987, 1983, 1978, 1973, 1968, 1963, 1960, 1959, 1946, 1940, 1935, 1930, 1925, 1920

FINDINGS

Address Researched

Address Not Identified in Research Source

3221 WILLIAMSBURG AVE	2013, 2008, 2003, 1996, 1991, 1987, 1983, 1978, 1973, 1968, 1959, 1955, 1920
3300 WILLIAMSBURG AVE	2013, 2008, 2003, 1996, 1991, 1987, 1983, 1978, 1963, 1960, 1959, 1955, 1951, 1946, 1940, 1935, 1930, 1925, 1920
3300 WILLIAMSBURG RD	2013, 2008, 2003, 1996, 1991, 1987, 1983, 1978, 1973, 1968, 1963, 1960, 1959, 1946, 1940, 1935, 1930, 1925, 1920
3302 WILLIAMSBURG RD	2013, 2008, 2003, 1996, 1991, 1987, 1983, 1978, 1973, 1968, 1963, 1960, 1959, 1946, 1940, 1935, 1930, 1925, 1920
3308 WILLIAMSBURG AVE	2008, 2003, 1996, 1991, 1987, 1983, 1978, 1973, 1968, 1963, 1960, 1959, 1955, 1951, 1946, 1940, 1935, 1930, 1925, 1920
3321 WILLIAMSBURG AVE	2013, 2008, 2003, 1996, 1991, 1987, 1983, 1978, 1973, 1968, 1963, 1960, 1959, 1955, 1951, 1946, 1940, 1935, 1930, 1925
3400 WILLIAMSBURG AVE	2013, 2008, 2003, 1996, 1991, 1987, 1983, 1978, 1973, 1968, 1963, 1960, 1959, 1955, 1951, 1946
3400 WILLIAMSBURG AVE	2008, 2003, 1996, 1991, 1987, 1983, 1978, 1973, 1968, 1963, 1960, 1959, 1955, 1951, 1946, 1940, 1935, 1930, 1925, 1920
3408 WILLIAMSBURG AVE	2013, 2008, 2003, 1996, 1991, 1987, 1983, 1978, 1973, 1968, 1963, 1960, 1959, 1955, 1951, 1940, 1935, 1930, 1925, 1920
3409 WILLIAMSBURG AVE	2013, 2008, 2003, 1996, 1991, 1987, 1983, 1978, 1973, 1968, 1959, 1955, 1946
3422 WILLIAMSBURG AVE	2013, 2008, 2003, 1996, 1991, 1987, 1983, 1978, 1959, 1955, 1951, 1946, 1940, 1935, 1930, 1925, 1920
3429 WILLIAMSBURG AVE	2013, 2008, 2003, 1996, 1991, 1987, 1983, 1978, 1973, 1968, 1963, 1960, 1959, 1955, 1951, 1946, 1940, 1935
4 31ST ST N	2013, 2008, 2003, 1996, 1991, 1987, 1983, 1978, 1973, 1968, 1963, 1960, 1959, 1955, 1951, 1946, 1940, 1935, 1930
5 S 31ST ST W	2013, 2008, 2003, 1996, 1991, 1987, 1983, 1978, 1973, 1968, 1963, 1960, 1959, 1955, 1951, 1946, 1940, 1935, 1930, 1920
6 31ST N	2013, 2008, 2003, 1996, 1991, 1987, 1983, 1978, 1973, 1968, 1963, 1959, 1951, 1946, 1940, 1935, 1930, 1925, 1920
6 31ST ST N	2013, 2008, 2003, 1996, 1991, 1978, 1960, 1959, 1955, 1940
6 S 31ST ST W	2013, 2008, 2003, 1996, 1991, 1987, 1983, 1978, 1973, 1968, 1963, 1960, 1959, 1955, 1951, 1946, 1940, 1935, 1930, 1920
7 S 31ST ST W	2013, 2008, 2003, 1996, 1991, 1987, 1983, 1978, 1973, 1968, 1963, 1960, 1959, 1955, 1951, 1946, 1940, 1935, 1930, 1920
8 31ST N	2013, 2008, 2003, 1996, 1991, 1987, 1983, 1978, 1973, 1968, 1963, 1959, 1951, 1946, 1940, 1935, 1930, 1925, 1920
8 31ST ST N	2013, 2008, 2003, 1996, 1991, 1960, 1959, 1955, 1940
9 S 31ST ST W	2013, 2008, 2003, 1996, 1991, 1987, 1983, 1978, 1973, 1968, 1963, 1960, 1959, 1955, 1951, 1946, 1940, 1935, 1930, 1920

APPENDIX 7

EDR Historical Topographic Map Report



RRHA East End Properties

3409 Williamsburg Avenue
Richmond, VA 23231

Inquiry Number: 3999963.4
July 09, 2014

EDR Historical Topographic Map Report



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

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

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

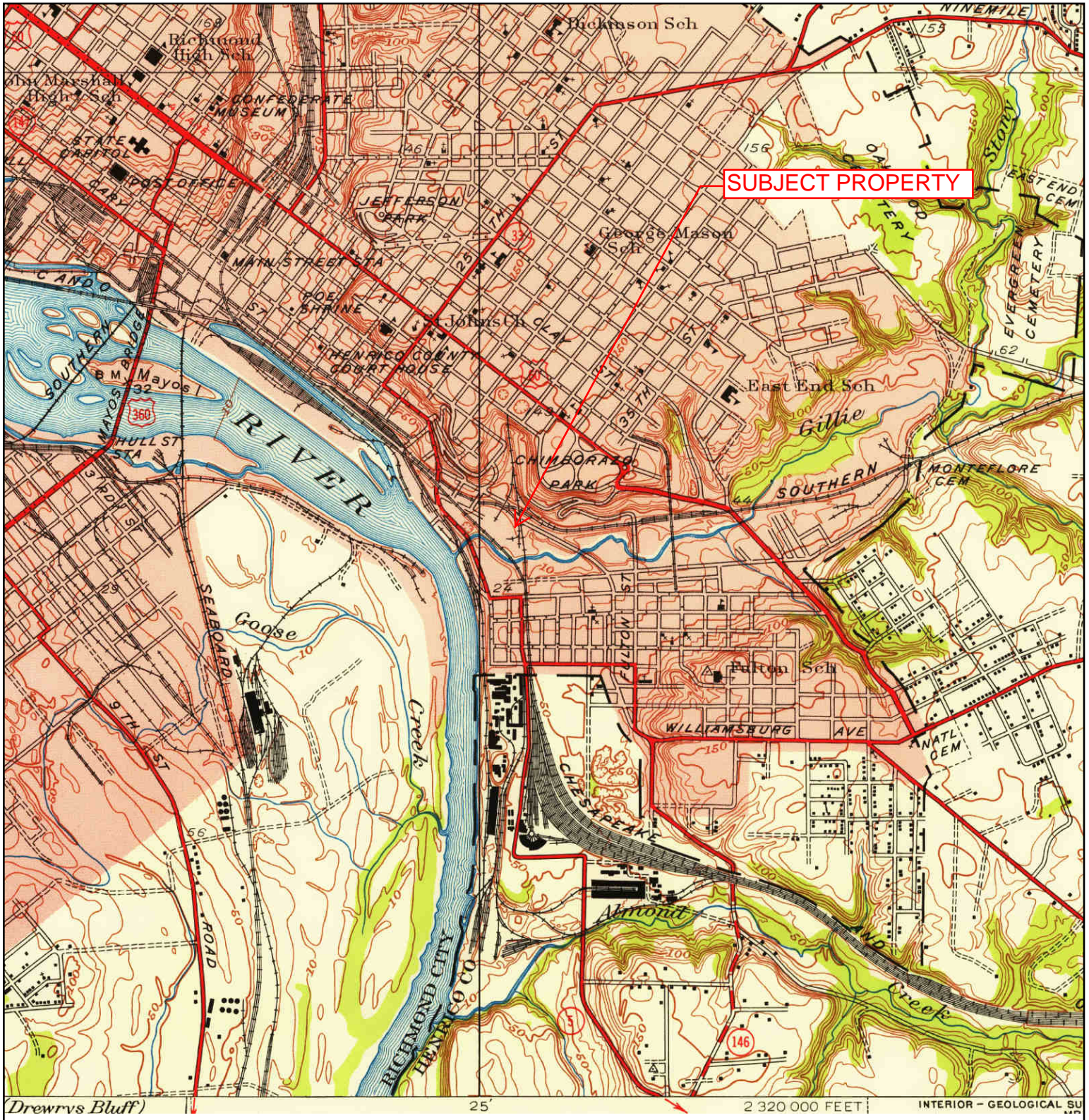
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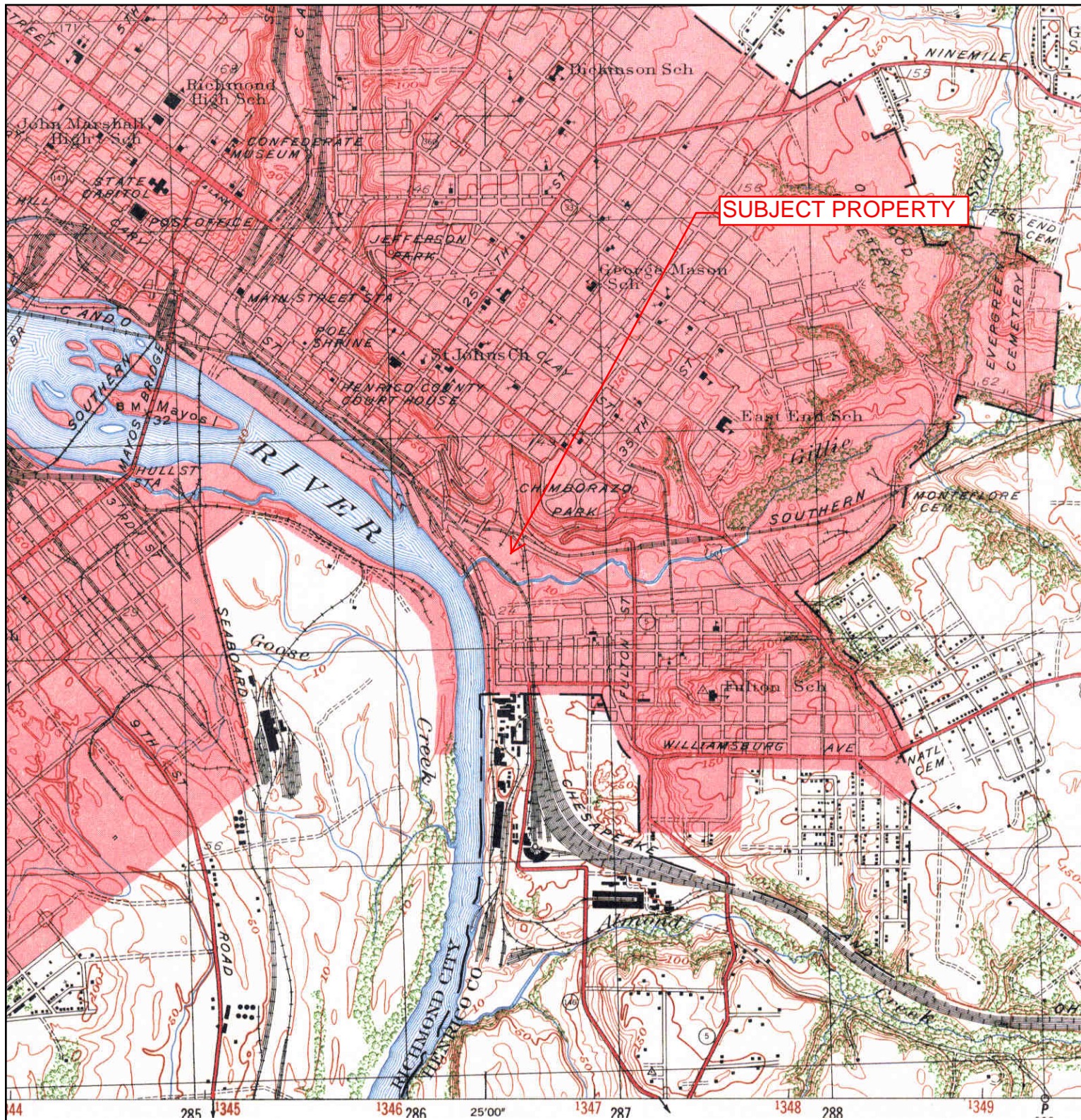
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Historical Topographic Map



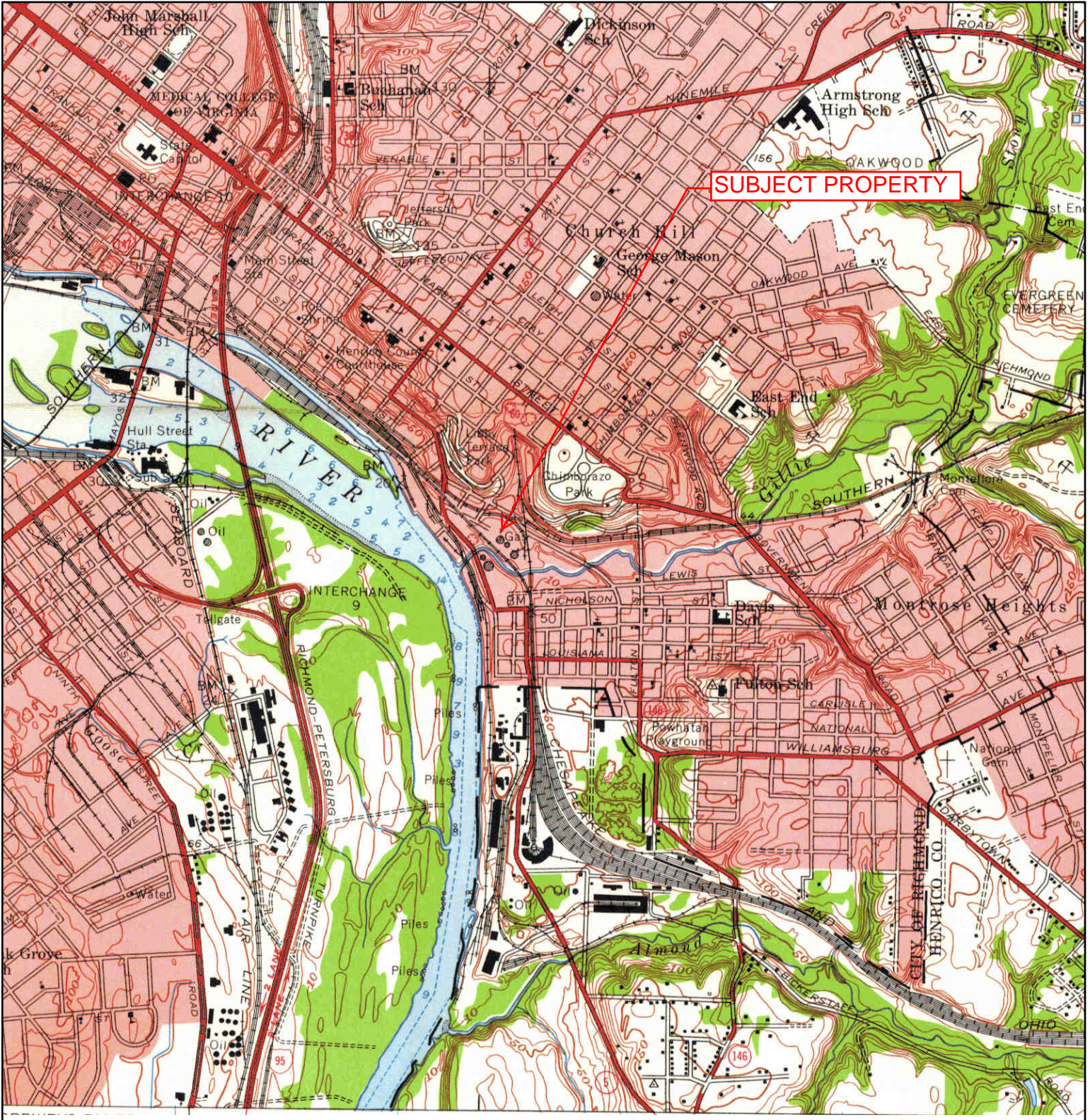
<p>N</p>	<p>TARGET QUAD</p> <p>NAME: RICHMOND</p> <p>MAP YEAR: 1934</p>	<p>SITE NAME: RRHA East End Properties</p> <p>ADDRESS: 3409 Williamsburg Avenue Richmond, VA 23231</p> <p>LAT/LONG: 37.5218 / -77.4134</p>	<p>CLIENT: Timmons Group</p> <p>CONTACT: John Russell</p> <p>INQUIRY#: 3999963.4</p> <p>RESEARCH DATE: 07/09/2014</p>
	<p>SERIES: 7.5</p> <p>SCALE: 1:25000</p>		

Historical Topographic Map



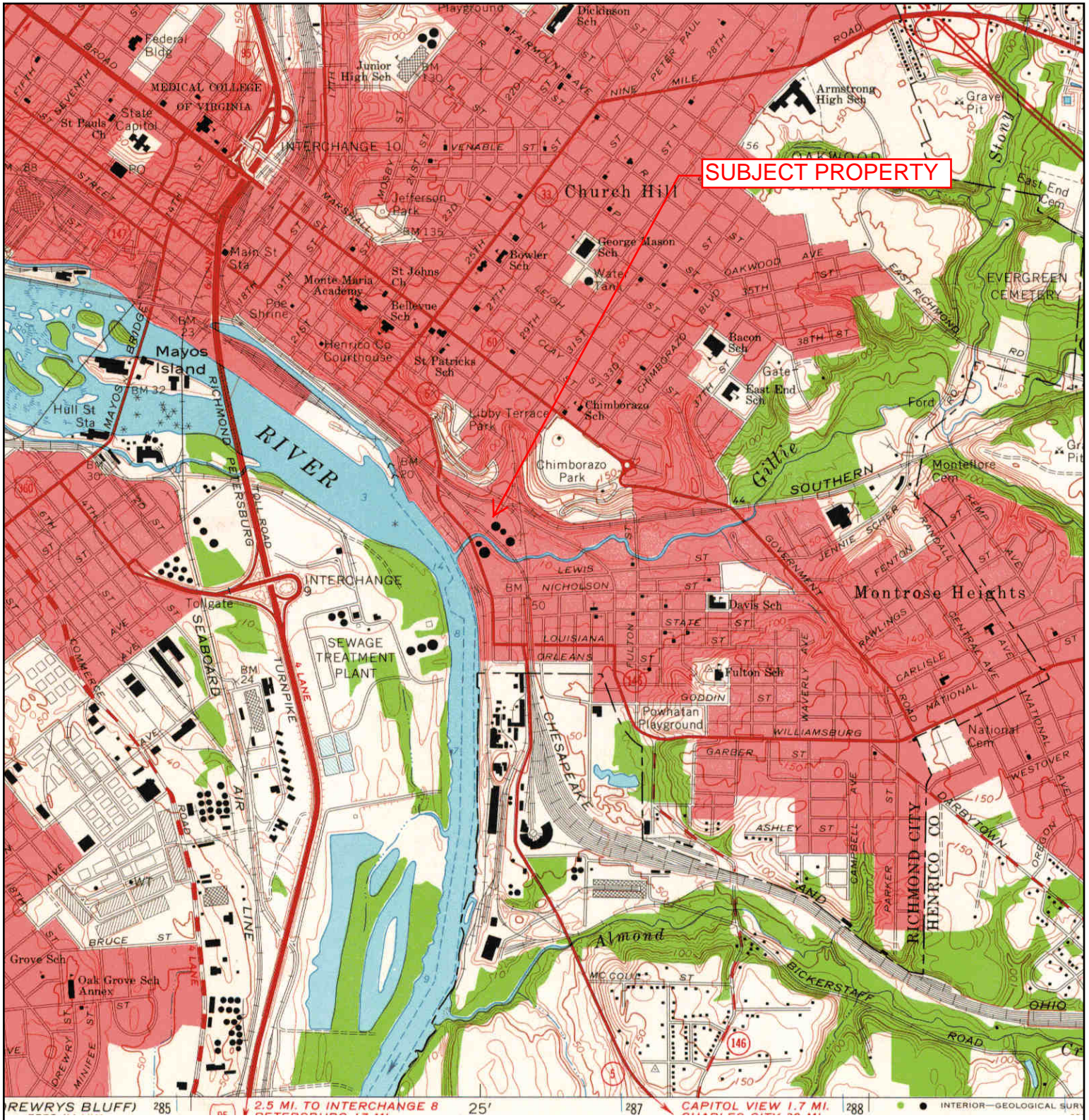
	TARGET QUAD NAME: RICHMOND MAP YEAR: 1939	SITE NAME: RRHA East End Properties ADDRESS: 3409 Williamsburg Avenue Richmond, VA 23231 LAT/LONG: 37.5218 / -77.4134	CLIENT: Timmons Group CONTACT: John Russell INQUIRY#: 3999963.4 RESEARCH DATE: 07/09/2014
	SERIES: 7.5 SCALE: 1:25000		

Historical Topographic Map



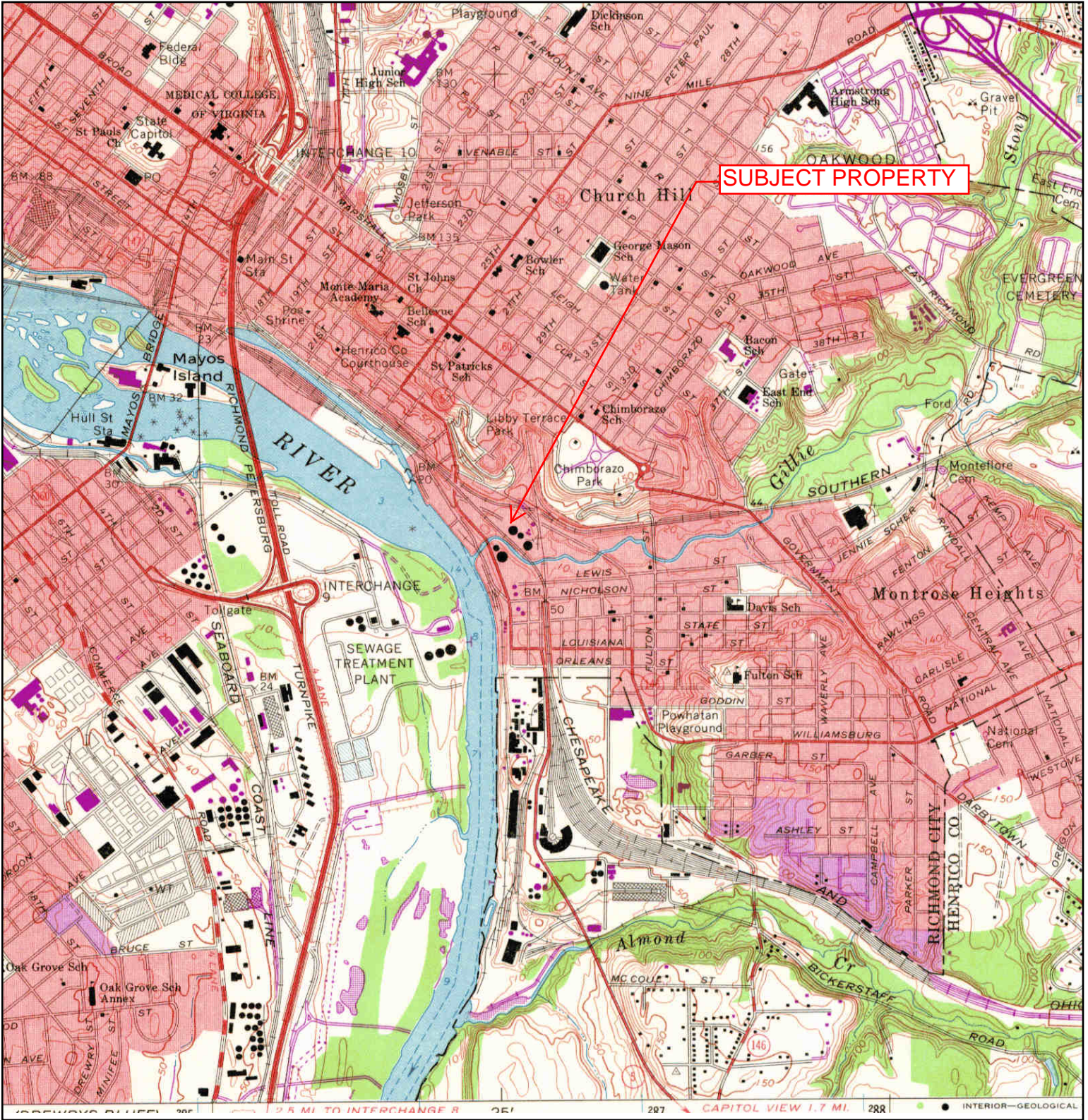
N ↑	TARGET QUAD	SITE NAME: RRHA East End Properties	CLIENT: Timmons Group
	NAME: RICHMOND	ADDRESS: 3409 Williamsburg Avenue	CONTACT: John Russell
	MAP YEAR: 1956	LAT/LONG: 37.5218 / -77.4134	INQUIRY#: 3999963.4
	SERIES: 7.5		RESEARCH DATE: 07/09/2014
	SCALE: 1:24000		


Historical Topographic Map



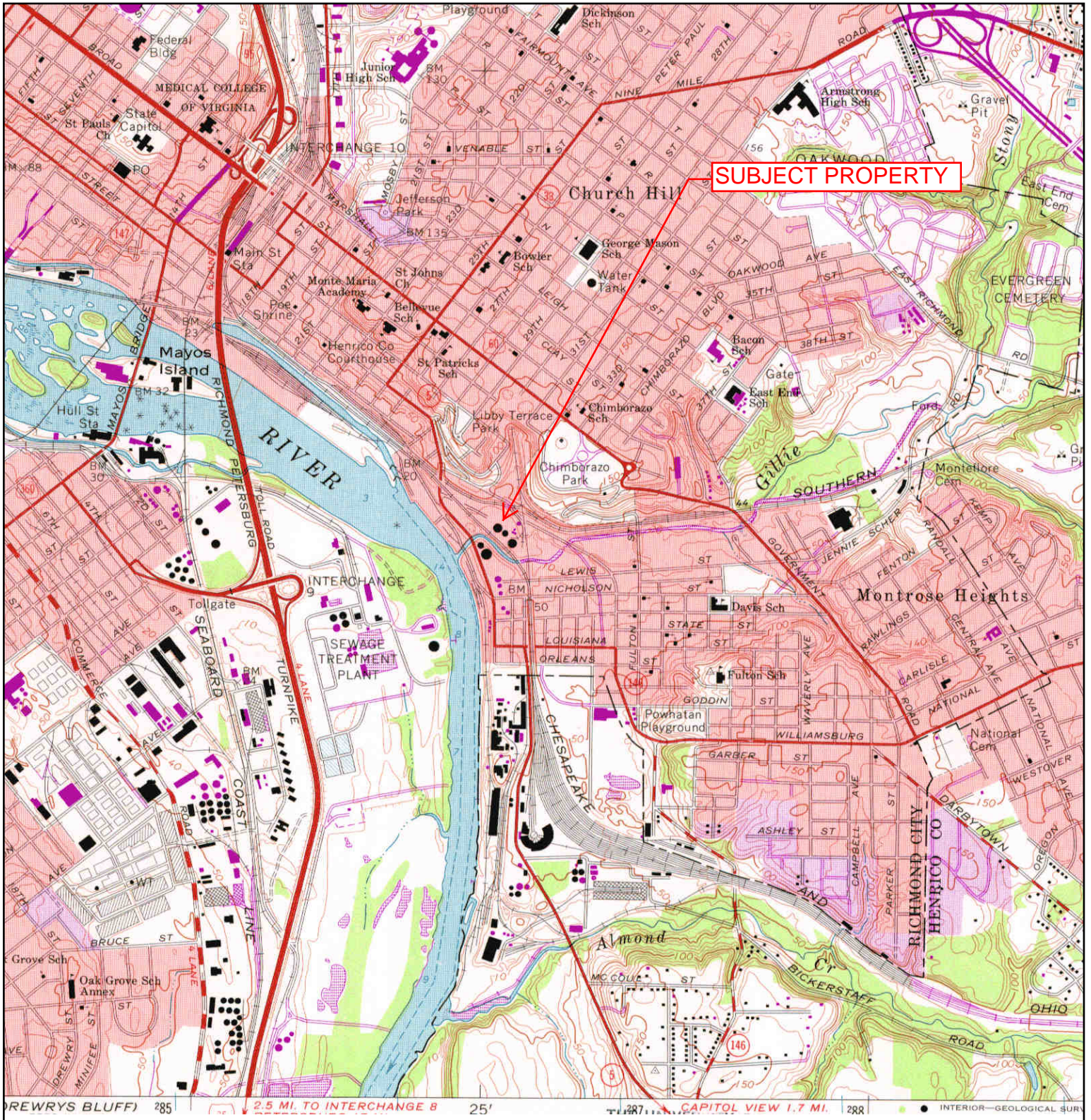
<p>N ↑</p>	<p>TARGET QUAD NAME: RICHMOND MAP YEAR: 1964</p>	<p>SITE NAME: RRHA East End Properties ADDRESS: 3409 Williamsburg Avenue Richmond, VA 23231 LAT/LONG: 37.5218 / -77.4134</p>	<p>CLIENT: Timmons Group CONTACT: John Russell INQUIRY#: 3999963.4 RESEARCH DATE: 07/09/2014</p>
	<p>SERIES: 7.5 SCALE: 1:24000</p>		

Historical Topographic Map



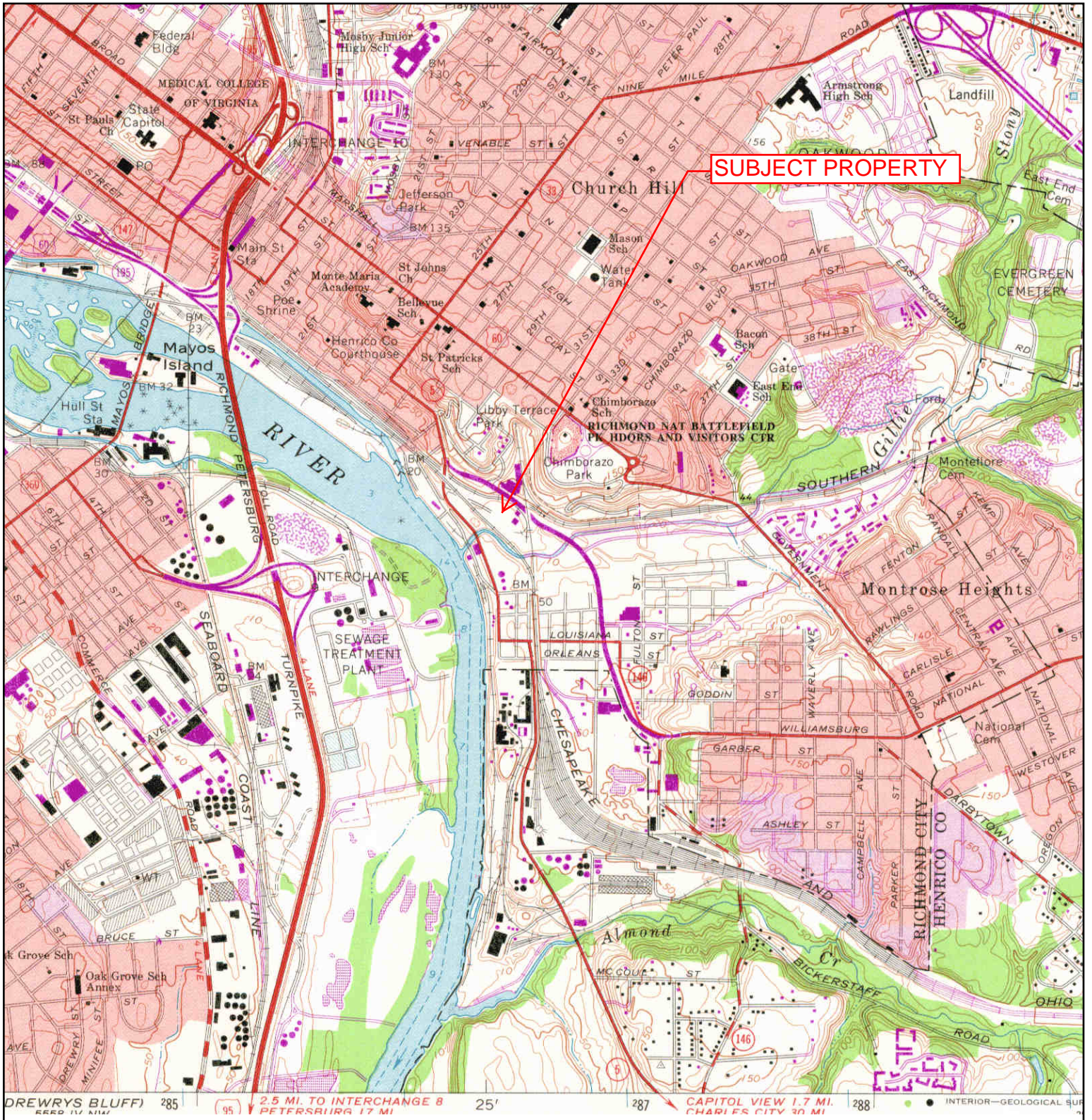
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	PHOTOREVISED FROM : 1964	LAT/LONG: 37.5218 / -77.4134	RESEARCH DATE: 07/09/2014
	SERIES: 7.5		
	SCALE: 1:24000		

Historical Topographic Map



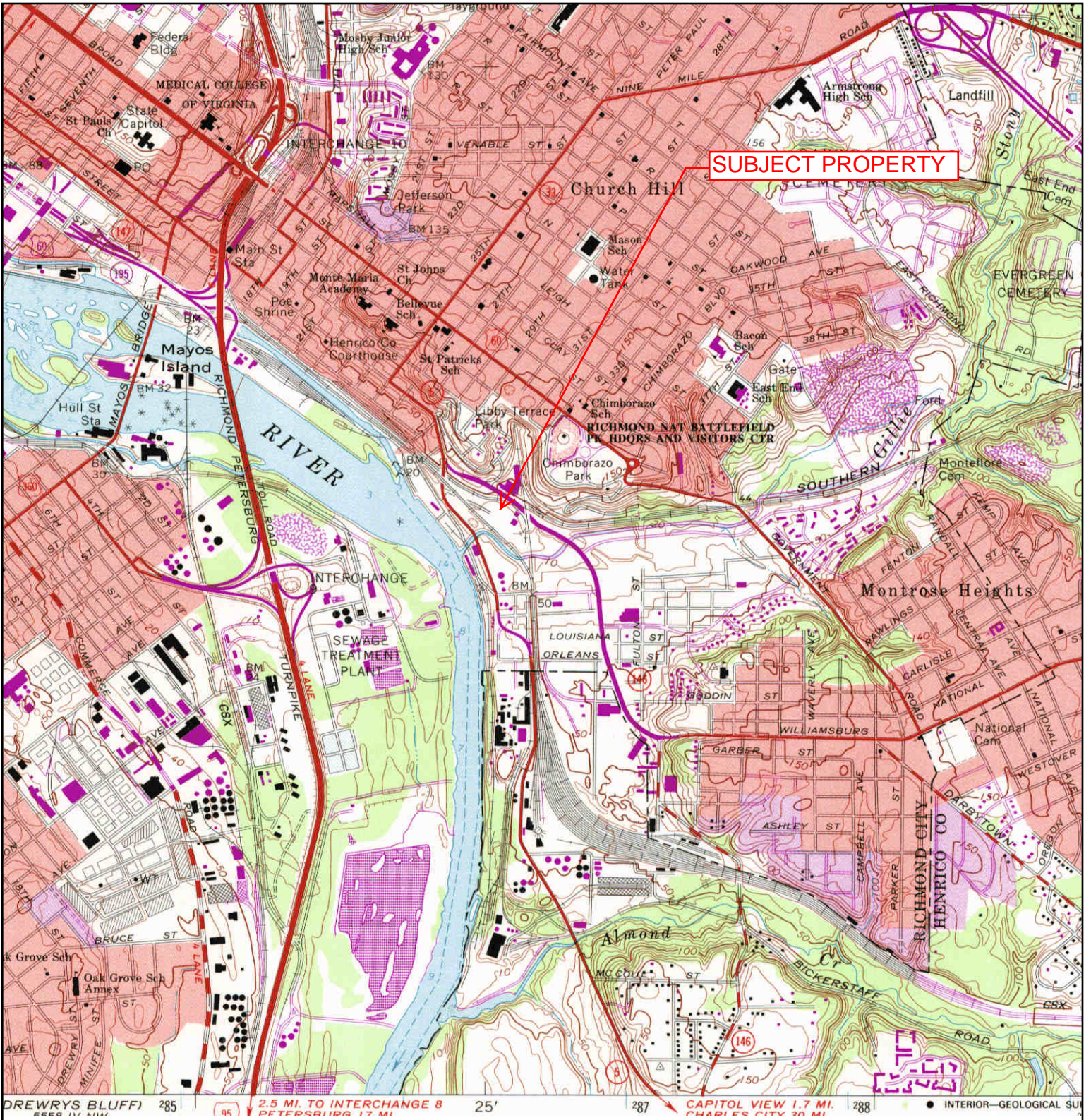
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	<p>MAP YEAR: 1974</p>	<p>RICHMOND, VA 23231</p>	<p>INQUIRY#: 3999963.4</p>
	<p>PHOTOREVISED FROM :1964</p>	<p>LAT/LONG: 37.5218 / -77.4134</p>	<p>RESEARCH DATE: 07/09/2014</p>
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Historical Topographic Map



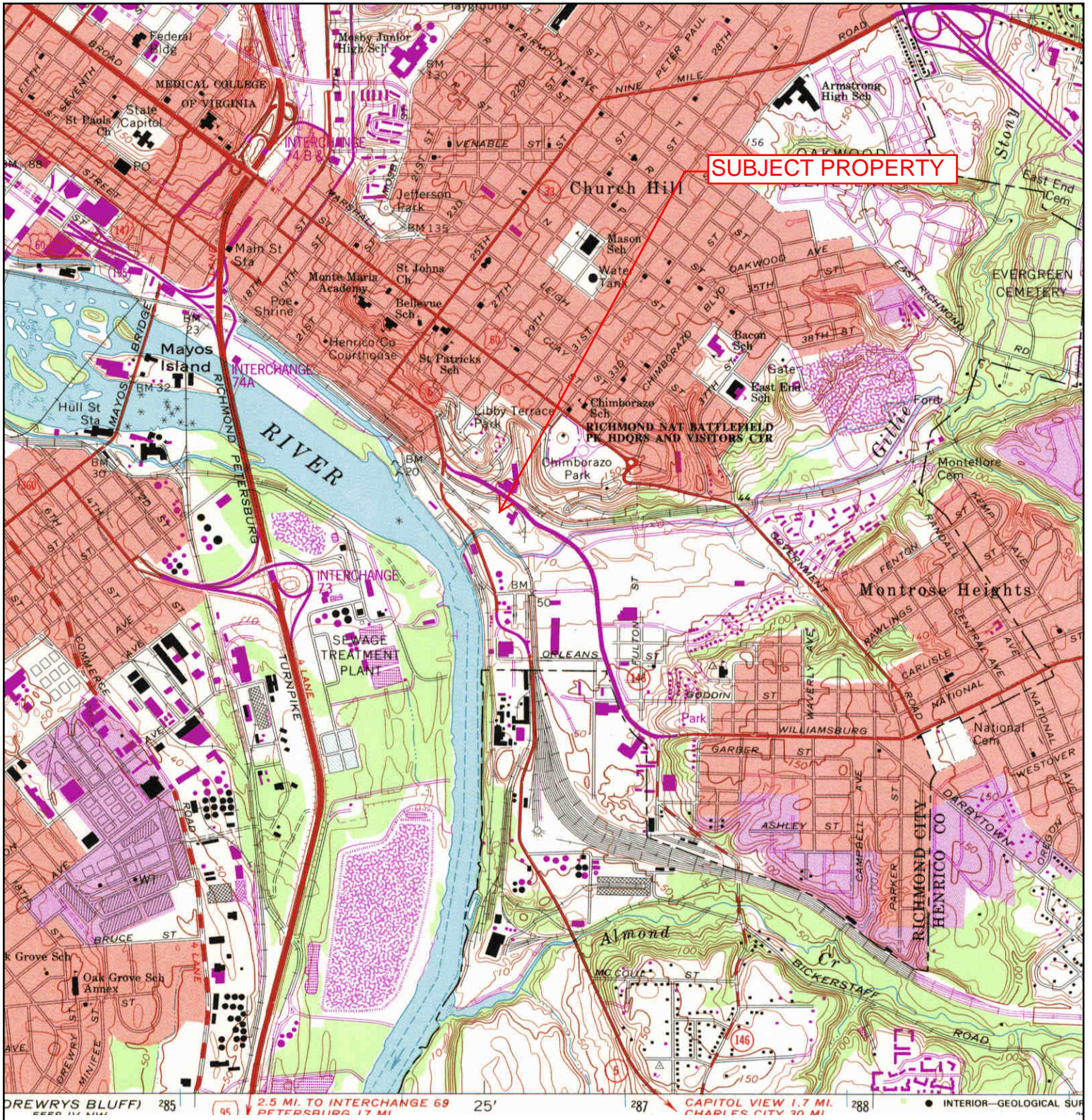
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	SERIES: 7.5		
	SCALE: 1:24000		

Historical Topographic Map



<p>N ↑</p>	TARGET QUAD	SITE NAME: RRHA East End Properties	CLIENT: Timmons Group
	NAME: RICHMOND	ADDRESS: 3409 Williamsburg Avenue	CONTACT: John Russell
	MAP YEAR: 1987	Richmond, VA 23231	INQUIRY#: 3999963.4
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	SERIES: 7.5		
	SCALE: 1:24000		

Historical Topographic Map



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	NAME: RICHMOND	ADDRESS: 3409 Williamsburg Avenue	CONTACT: John Russell
	MAP YEAR: 1994	Richmond, VA 23231	INQUIRY#: 3999963.4
	REVISED FROM :1964	LAT/LONG: 37.5218 / -77.4134	RESEARCH DATE: 07/09/2014
	SERIES: 7.5		
	SCALE: 1:24000		

APPENDIX 8

Certified Sanborn® Map Report



Fulton Gas Works

3301 Williamsburg Avenue
Richmond, VA 23223

Inquiry Number: 4370257.3
July 31, 2015

Certified Sanborn® Map Report



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

Certified Sanborn® Map Report

7/31/15

Site Name:

Fulton Gas Works
3301 Williamsburg Avenue
Richmond, VA 23223

Client Name:

Timmons Group
1001 Boulders Parkway
Richmond, VA 23225



EDR Inquiry # 4370257.3

Contact: Chase Farnsworth

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Timmons Group 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:

Site Name: Fulton Gas Works
Address: 3301 Williamsburg Avenue
City, State, Zip: Richmond, VA 23223
Cross Street:
P.O. # NA
Project: Fulton Gas Works
Certification # C473-432E-8F6D



Sanborn® Library search results
Certification # C473-432E-8F6D

Maps Provided:

1984	1952
1979	1950
1978	1925
1973	1905
1971	1895
1969	

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

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Sanborn Sheet Thumbnails

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



1984 Source Sheets



Volume 2, Sheet 209



Volume 2, Sheet 274



Volume 2, Sheet 275

1979 Source Sheets



Volume 2, Sheet 209



Volume 2, Sheet 274



Volume 2, Sheet 275

1978 Source Sheets



Volume 2, Sheet 209



Volume 2, Sheet 274



Volume 2, Sheet 275

1973 Source Sheets



Volume 2, Sheet 274



Volume 2, Sheet 275

1971 Source Sheets



Volume 2, Sheet 209



Volume 2, Sheet 275



Volume 2, Sheet 274

1969 Source Sheets



Volume 2, Sheet 274



Volume 2, Sheet 275



Volume 2, Sheet 209

1952 Source Sheets



Volume 2, Sheet 275

1950 Source Sheets



Volume 2, Sheet 275

1925 Source Sheets



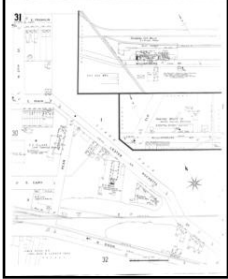
Volume 2, Sheet 275

1905 Source Sheets

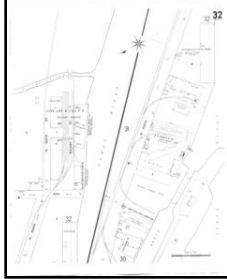


Volume 1, Sheet 50

1895 Source Sheets



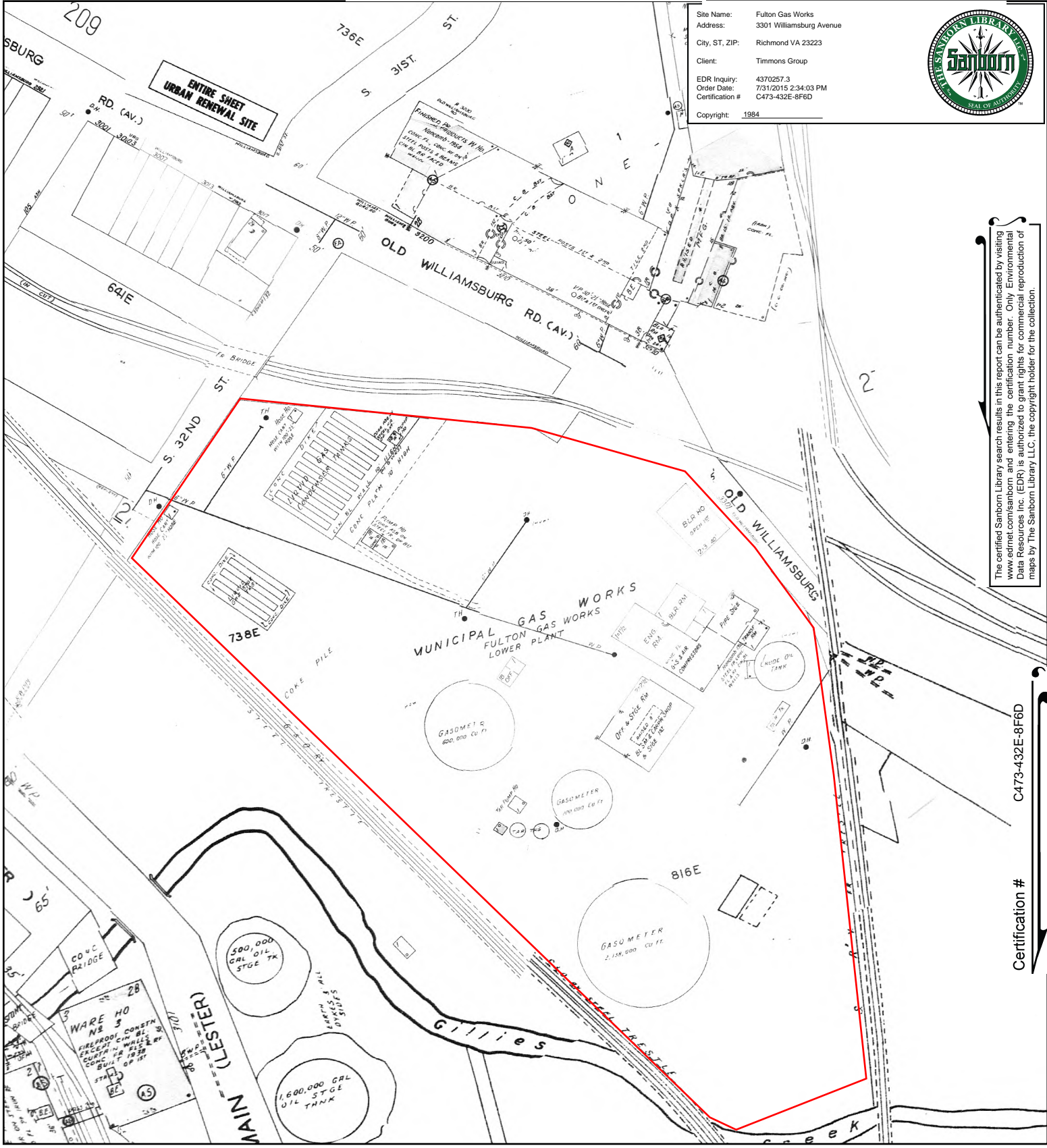
Volume 1, Sheet 31



Volume 1, Sheet 32

1984 Certified Sanborn Map

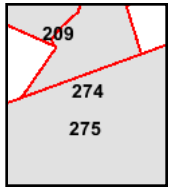
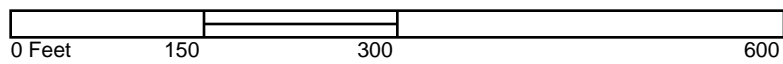
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 Address: 3301 Williamsburg Avenue
 City, ST, ZIP: Richmond VA 23223
 Client: Timmons Group
 EDR Inquiry: 4370257.3
 Order Date: 7/31/2015 2:34:03 PM
 Certification #: C473-432E-8F6D
 Copyright: 1984



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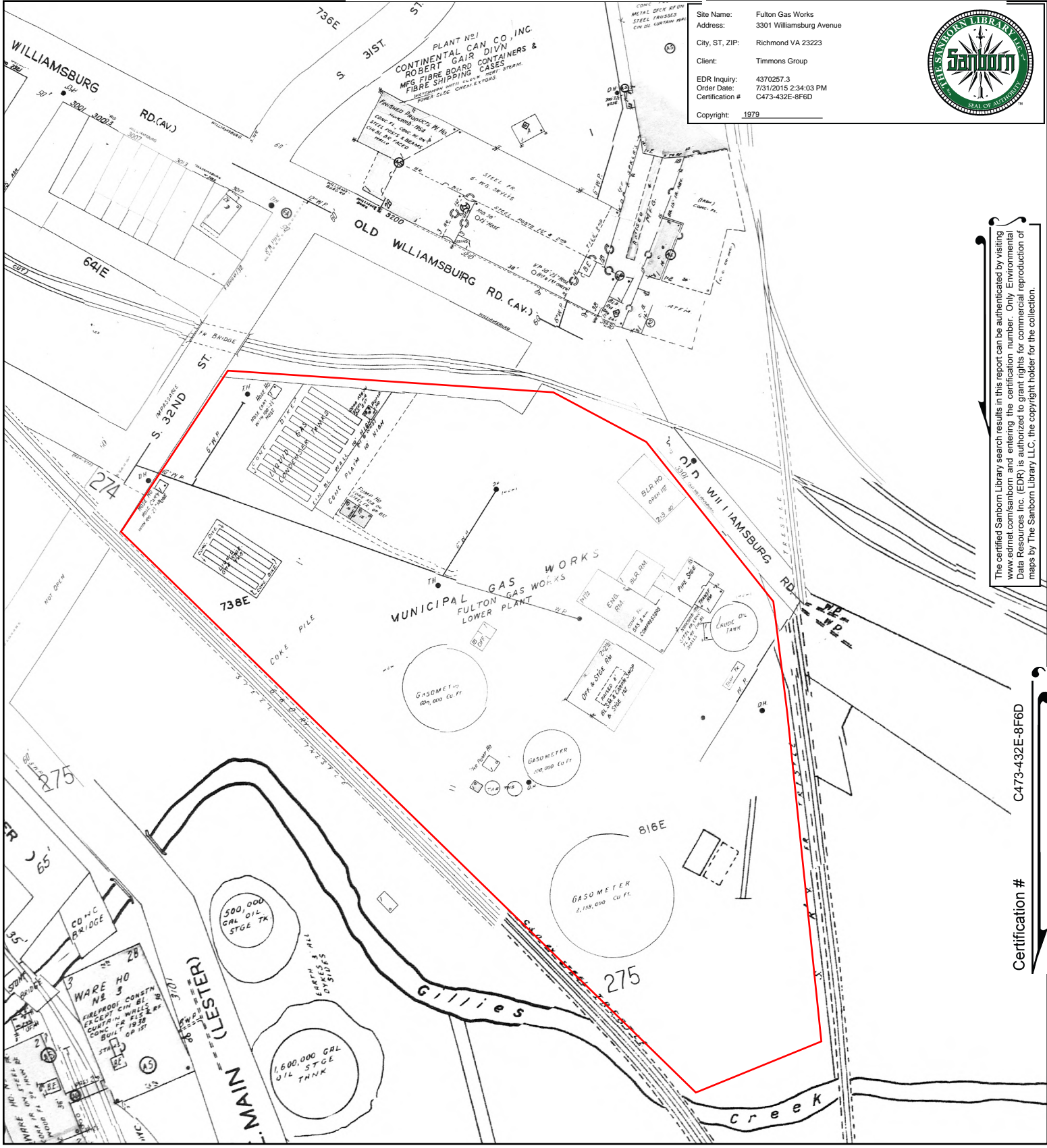
Volume 2, Sheet 209
 Volume 2, Sheet 274
 Volume 2, Sheet 275



1979 Certified Sanborn Map



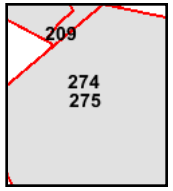
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 Address: 3301 Williamsburg Avenue
 City, ST, ZIP: Richmond VA 23223
 Client: Timmons Group
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 Order Date: 7/31/2015 2:34:03 PM
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 Copyright: 1979



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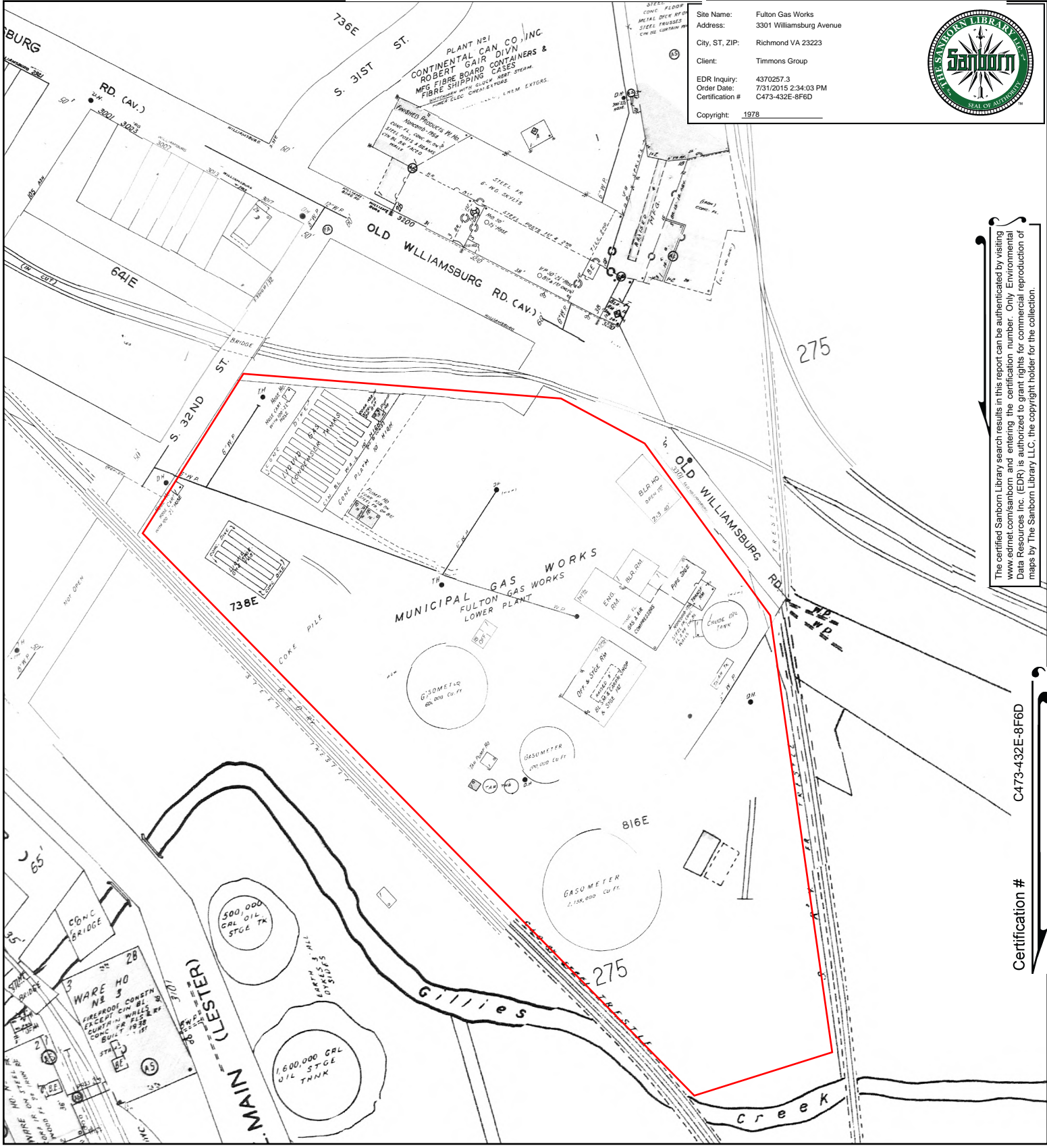
Volume 2, Sheet 209
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1978 Certified Sanborn Map



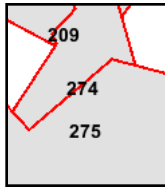
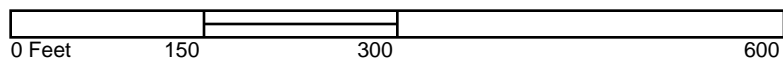
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 Address: 3301 Williamsburg Avenue
 City, ST, ZIP: Richmond VA 23223
 Client: Timmons Group
 EDR Inquiry: 4370257.3
 Order Date: 7/31/2015 2:34:03 PM
 Certification #: C473-432E-8F6D
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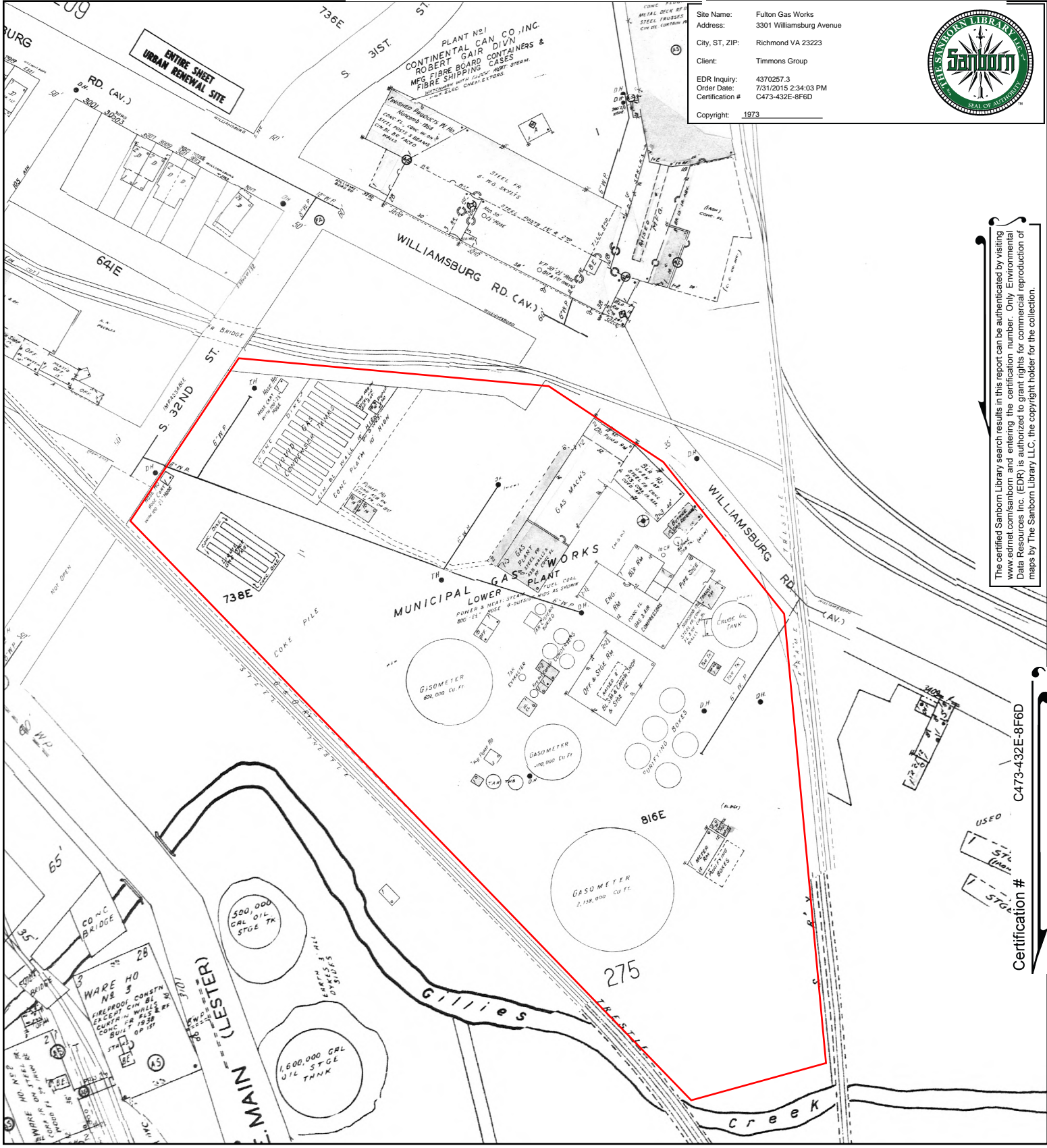
Volume 2, Sheet 209
 Volume 2, Sheet 274
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1973 Certified Sanborn Map



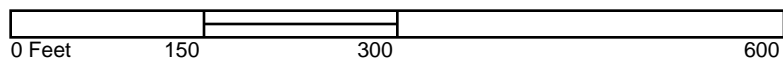
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 Address: 3301 Williamsburg Avenue
 City, ST, ZIP: Richmond VA 23223
 Client: Timmons Group
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 Order Date: 7/31/2015 2:34:03 PM
 Certification #: C473-432E-8F6D
 Copyright: 1973



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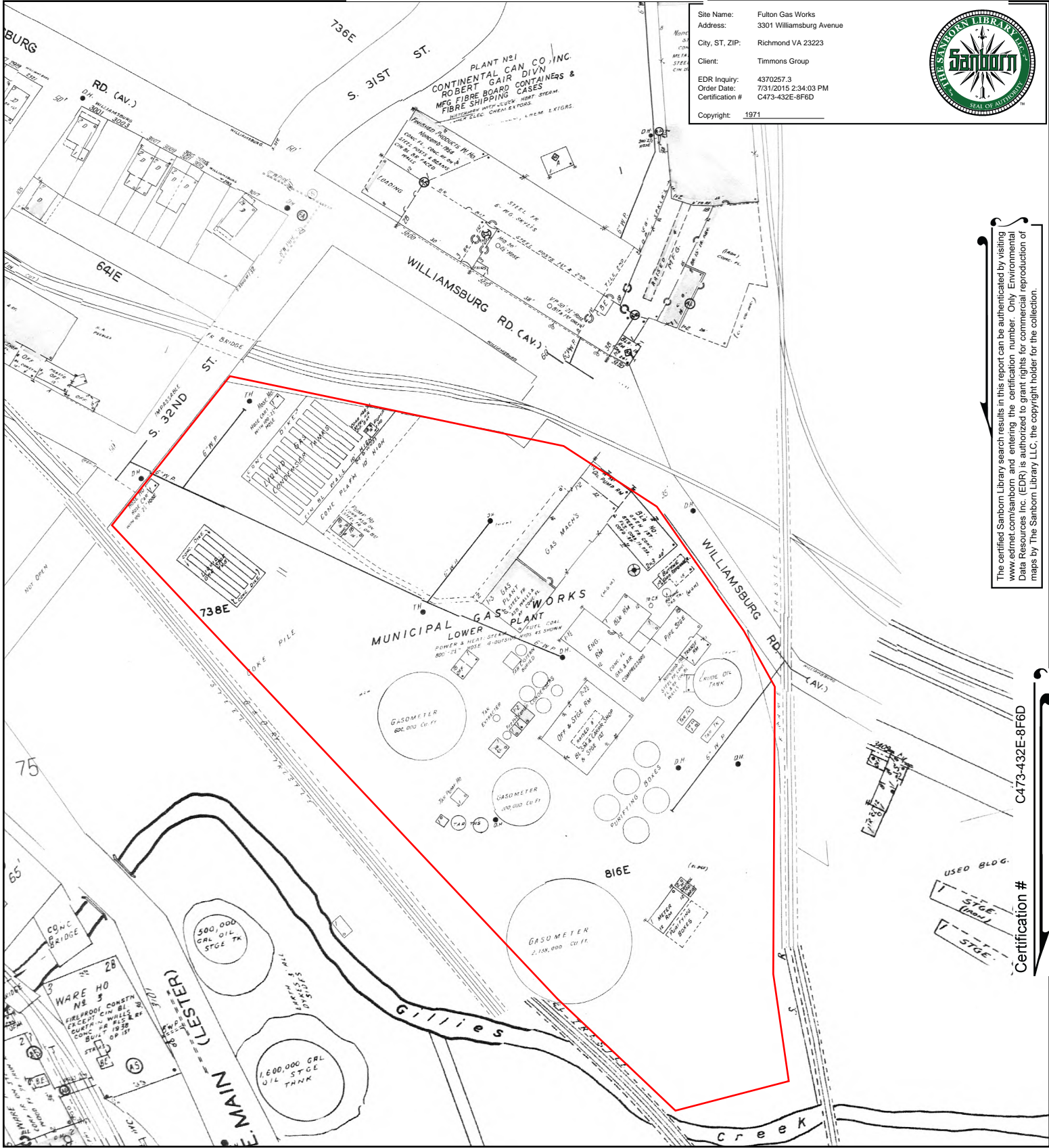


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1971 Certified Sanborn Map

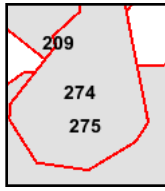
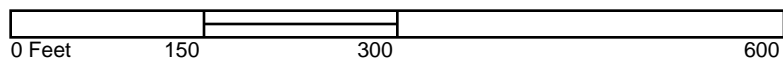
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 Address: 3301 Williamsburg Avenue
 City, ST, ZIP: Richmond VA 23223
 Client: Timmons Group
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 Order Date: 7/31/2015 2:34:03 PM
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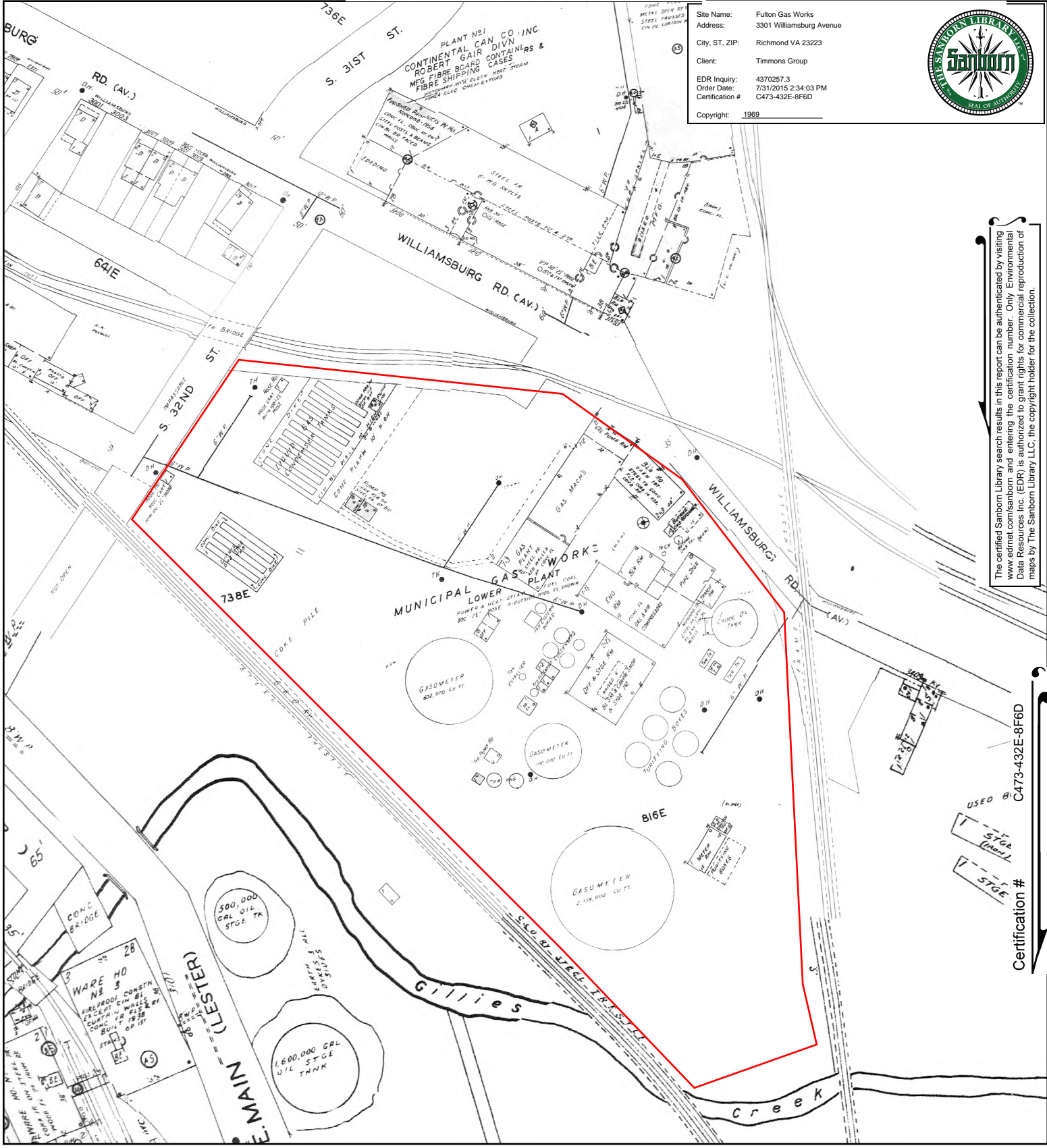
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1969 Certified Sanborn Map



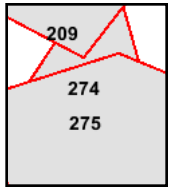
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 Copyright: 1969



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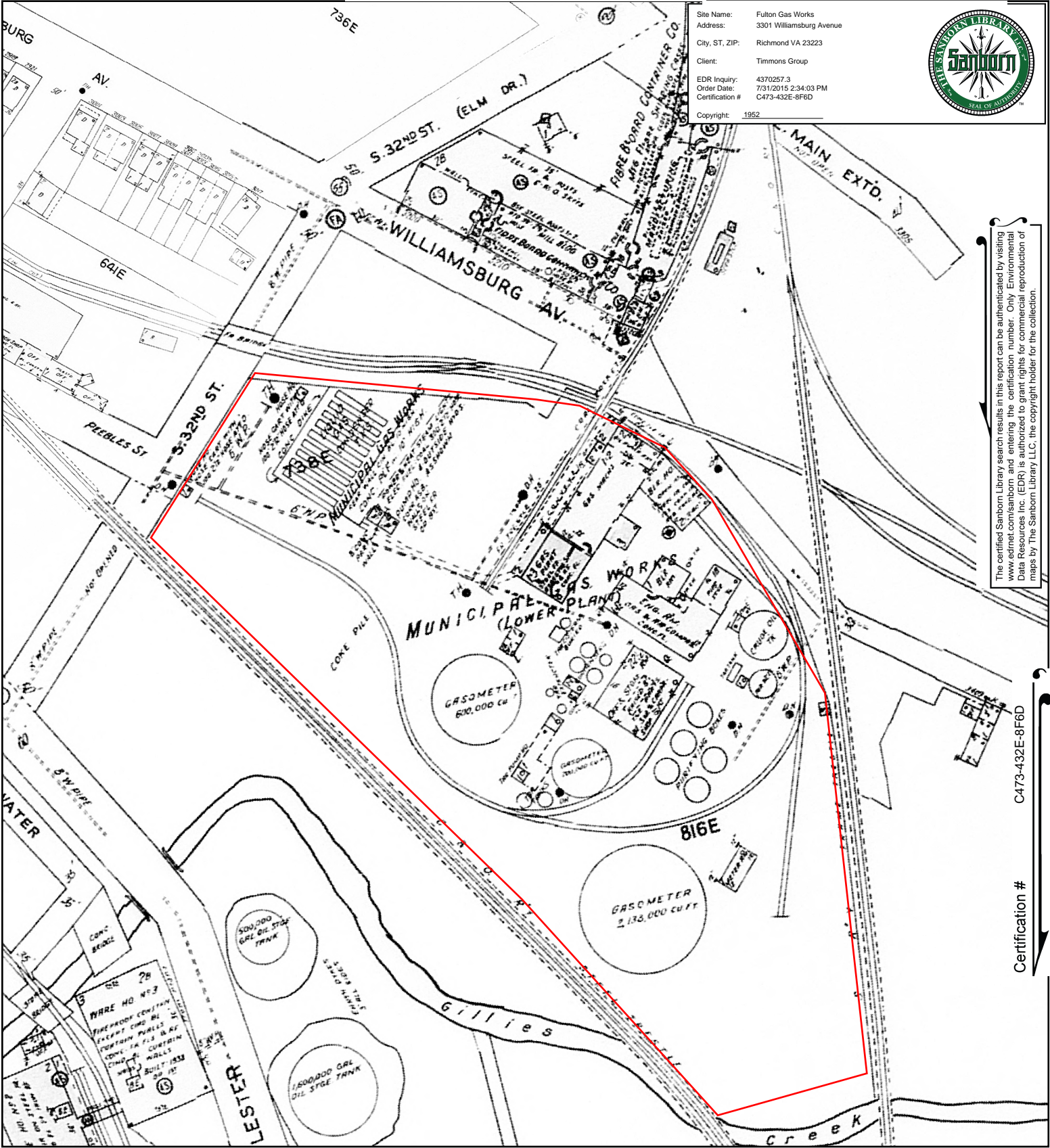


Volume 2, Sheet 274
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 Volume 2, Sheet 209



1952 Certified Sanborn Map

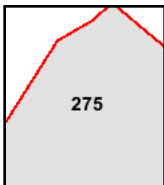
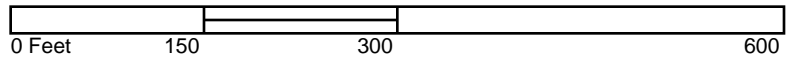
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 Certification #: C473-432E-8F6D
 Copyright: 1952



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Certification # C473-432E-8F6D

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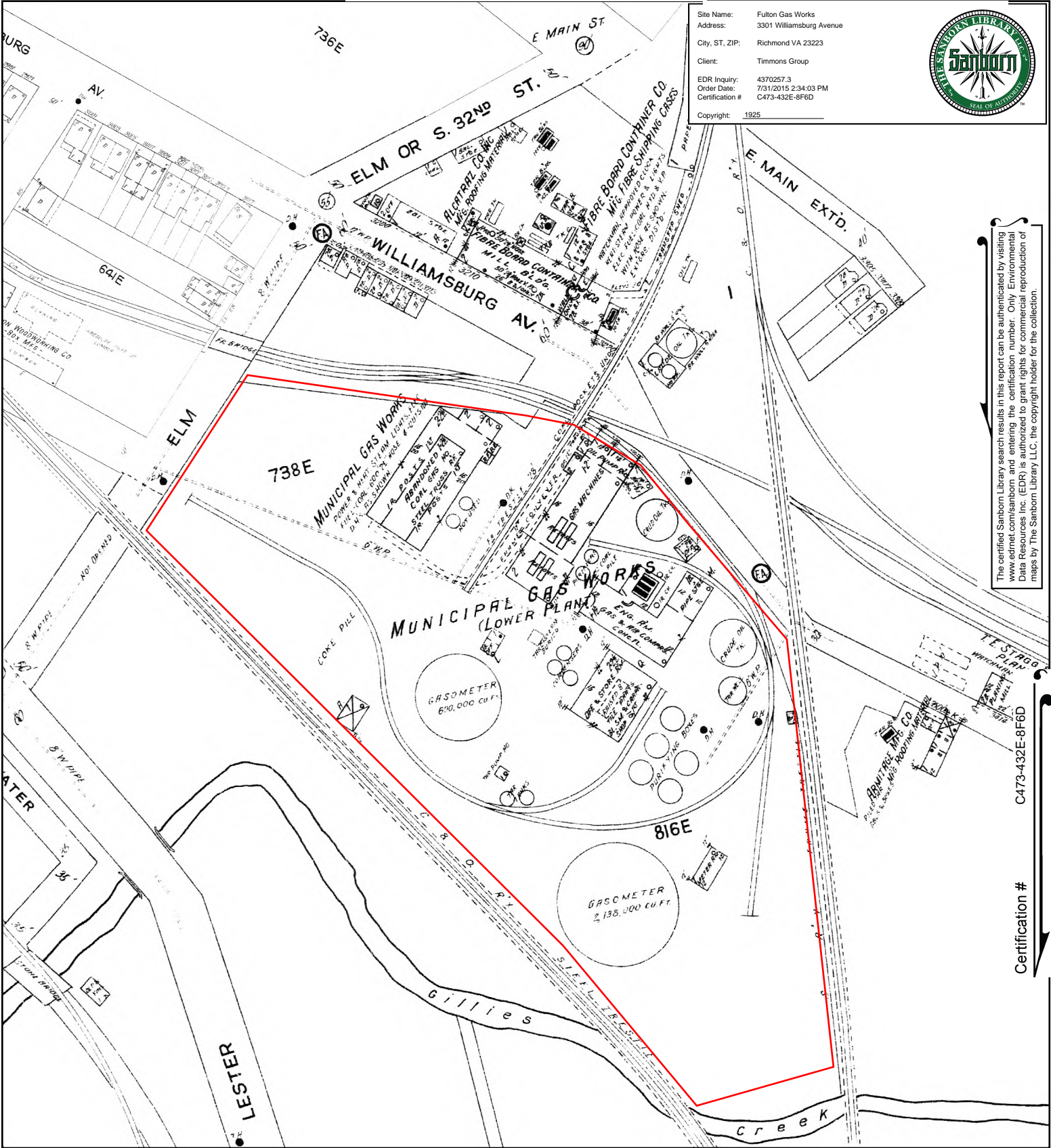


Volume 2, Sheet 275



1925 Certified Sanborn Map

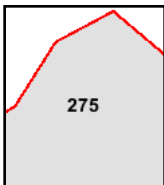
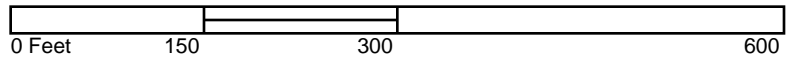
Site Name: Fulton Gas Works
 Address: 3301 Williamsburg Avenue
 City, ST, ZIP: Richmond VA 23223
 Client: Timmons Group
 EDR Inquiry: 4370257.3
 Order Date: 7/31/2015 2:34:03 PM
 Certification #: C473-432E-8F6D
 Copyright: 1925



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Certification # C473-432E-8F6D

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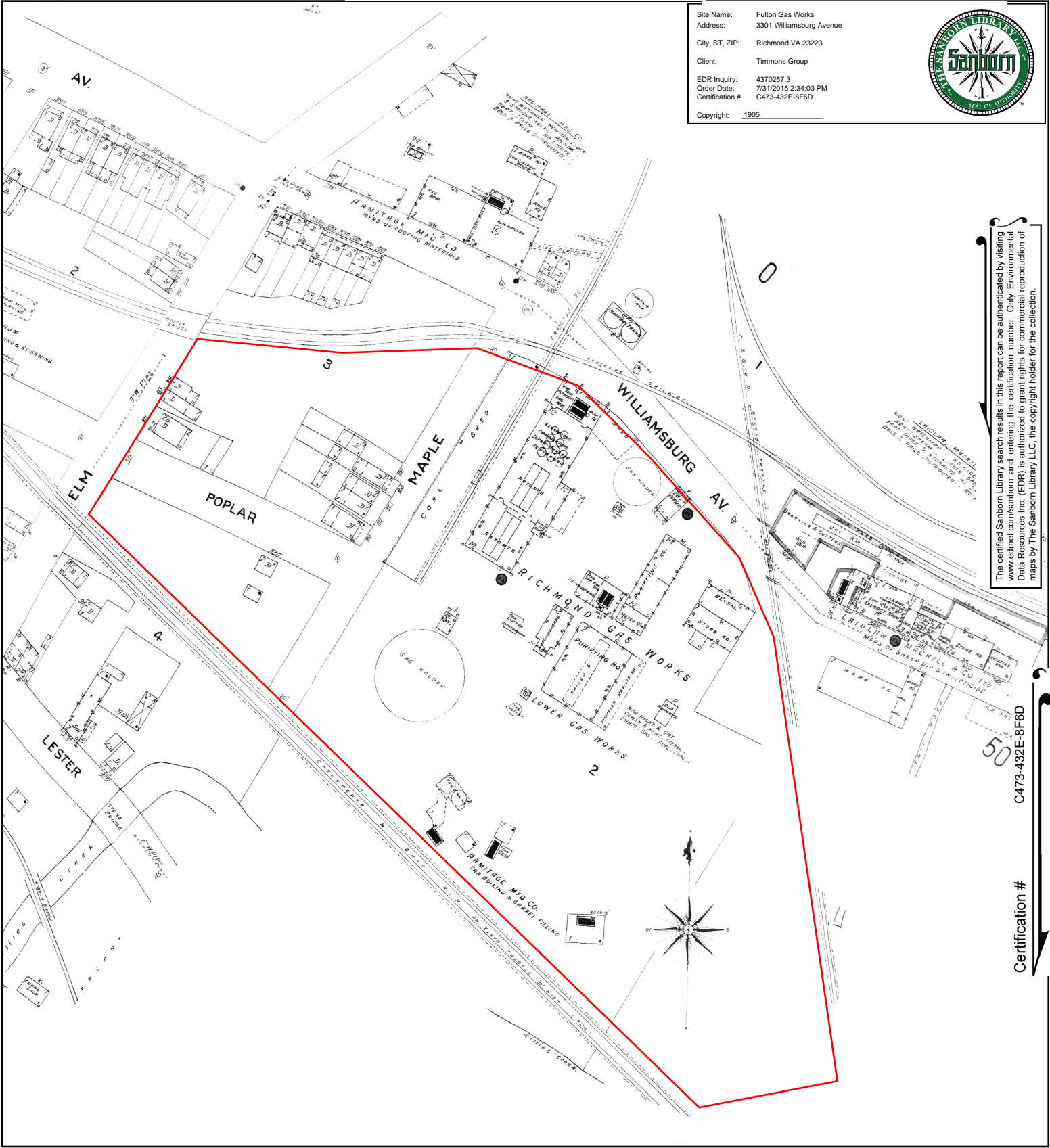


Volume 2, Sheet 275



1905 Certified Sanborn Map

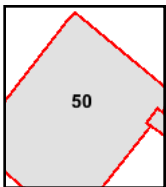
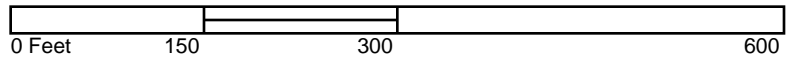
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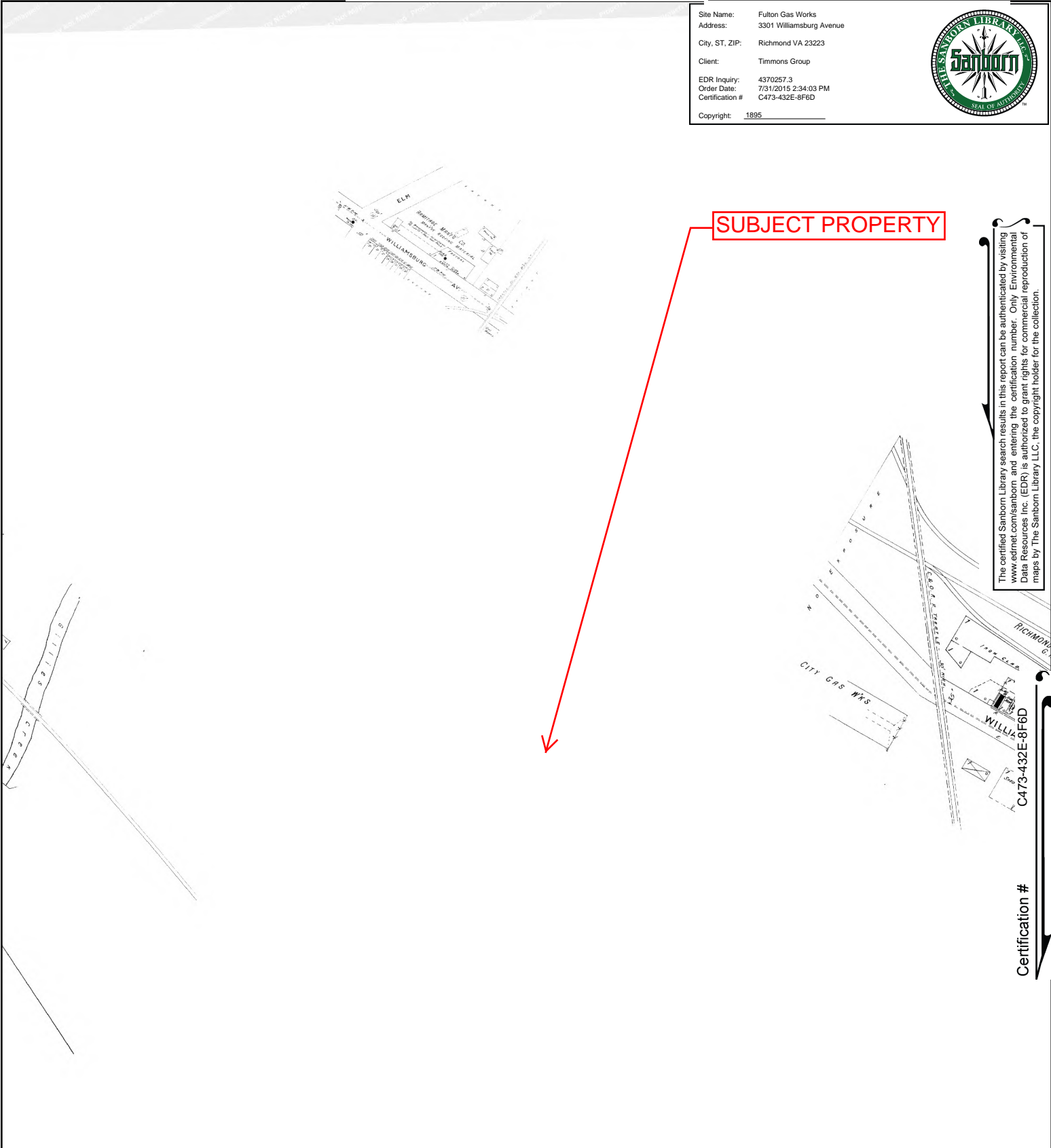


Volume 1, Sheet 50



1895 Certified Sanborn Map

Site Name: Fulton Gas Works
 Address: 3301 Williamsburg Avenue
 City, ST, ZIP: Richmond VA 23223
 Client: Timmons Group
 EDR Inquiry: 4370257.3
 Order Date: 7/31/2015 2:34:03 PM
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 Copyright: 1895

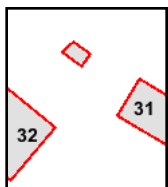


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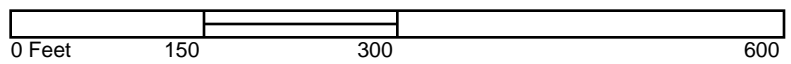
Certification # C473-432E-8F6D

Certification #

This Certified Sanborn Map combines the following sheets. Outlined areas indicate map sheets within the collection.



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 Volume 1, Sheet 32



APPENDIX 9

Site Reconnaissance Photographs

Phase I ESA – Fulton Gas Works-Richmond



View from the southeastern corner of the site looking northwest, showing the central gasometer frame and former office, engine room and boiler room buildings.



View of the southeastern corner of the site looking east, showing stained soil and construction of the Stone Brewery facility beyond. This area exhibits strong hydrocarbon odors.



View of the southeastern portion of the site looking southwest, showing stained soil/distressed vegetation with the elevated C&O railroad and undeveloped land beyond.



Stained soil and distressed vegetation in the southeastern corner of the site with the elevated C&O railroad and undeveloped land beyond.



View along the southwestern boundary of the site showing the elevated C&O railroad and Newton's Bus Service to the northwest of the site.



View from the northwestern corner of the site showing the former liquid gas condenser tank cradles and concrete platform.

Phase I ESA – Fulton Gas Works-Richmond



Close up view of the liquid gas condenser tank cradles, concrete platform and pump house in the northeastern portion of the site.



View of the former pump house looking northwest showing overhead electrical lines.



View from the center of the site looking southwest showing the former office building, engine room building and pipe storage.



Concrete pipes located in the north central portion of the site suspected of containing asbestos.



View from the north central portion of the site showing the rail line to the north of the site with the former Fiber Board Container Co. building beyond.



The former boiler room building located on the north central boundary of the site.



Phase I ESA – Fulton Gas Works-Richmond



Lower portion of the former boiler room building showing elevated piping with suspected asbestos insulation.



Interior of the engine room building showing partially buried pipes and valves.



Interior of the engine room building showing remnant machinery.



Interior of the engine room showing remnant machinery and tank structures.



Doorway on the southern face of the engine room building showing lead paint alligator cracking.



Interior of the engine room building showing ground pipes and valves.

Phase I ESA – Fulton Gas Works-Richmond



View of the southern face of the engine room building with the boiler room building beyond.



Pole mounted electrical transformers located to the southeast of the engine room building.



Partially buried storage tank filled with liquid and exhibiting strong hydrocarbon odors, located southeast of the engine room building.



View of the southeastern corner of the site looking southeast, showing the Stone Brewery facility beyond.



Fuel storage tanks located on the northern side of the Newton's Bus Service buildings.

APPENDIX 10

DHR V-CRIS Search Results

Property Information

Property Names

Name Explanation	Name
Historic	Richmond Gas Works
Current	Fulton Gas Works

Property Evaluation Status

DHR Staff: Eligible

Property Addresses

Current - Williamsburg Avenue

County/Independent City(s): Richmond (Ind. City)

Incorporated Town(s): *No Data*

Zip Code(s): *No Data*

Magisterial District(s): *No Data*

Tax Parcel(s): *No Data*

USGS Quad(s): RICHMOND

Additional Property Information

Architecture Setting: Urban

Acreage: *No Data*

Site Description:

September 2007: This building is located in an area of Richmond referred to as Rocketts Landing. The Fulton Gas Works buildings are vacant. The area around the buildings is considered environmentally unsafe due to toxic waste produced by the Fulton Gas Works (Manufactured Gas Plant).

September 2007: There are two standing buildings (buildings 1 & 2), the remains of a gas storage tank, and the concrete foundation of a building attached to three small sheds (building 3).

Surveyor Assessment:

September 2007: The Fulton Gas Works is recommended as potentially eligible for the NRHP under Criteria A for planning and development. During the 1920s the City of Richmond was quickly expanding. Areas around Richmond were being developed and new houses were installed with gas, water, and electricity, and old houses were upgraded. The Fulton Gas Works provided the essential utilities necessary during the period of rapid development of Richmond in the early to mid-twentieth century. The buildings that create the Fulton Gas Works represent an important period in the history of Richmond, and the buildings retain their architectural and historical integrity.

Surveyor Recommendation: Legacy

Ownership

Ownership Category	Ownership Entity
Private	<i>No Data</i>

Primary Resource Information

Resource Category: Other

Resource Type: Other

Date of Construction: 1925Ca

Historic Time Period: World War I to World War II (1917 - 1945)

Historic Context(s): Architecture/Community Planning, Industry/Processing/Extraction

Architectural Style: No Discernable Style

Form: *No Data*

Number of Stories: *No Data*

Condition: Fair

Interior Plan: *No Data*

Threats to Resource: Deterioration, Development

Architectural Description:

September 2007: Built c. 1925 the Fulton Gas Works, formerly known as the Richmond Gas Works, is a collection of several Vernacular industrial buildings. The manufactured gas plant consists of a main industrial building (#1), the metal frame of a gas storage tank, a storage

building (#2), and what appears to be a concrete foundation attached to several smaller outbuildings (#3).

The main building (#1) is located close to Williamsburg Avenue. Building #1 is a three-story brick building that rests on concrete piers that hold the building a story above the ground. The roof of the building is gabled and covered in corrugated metal. A stepped parapet with concrete coping is displayed on the north and south ends of the roof. A large section of brick has been replaced on the north elevation of the building, and a large portion of the east elevation is clad in metal industrial windows. The north and south elevations feature ceramic tile signage that display the name, Fulton Gas Works, as well as symbols that were not clear enough to read.

The production of manufactured gas from coal was an exciting innovation, and from the mid-nineteenth to mid-twentieth century, manufactured gas became an essential part of daily life. On July 17, 1816, the City of Baltimore passed an ordinance permitting the use of manufactured gas to supply the city with coal gas for street lights. In February of 1817, the Gas Light Company of Baltimore was the first coal gas company founded in the United States. By 1875, most American cities with a population of 10,000 or more, including Richmond, were home to at least one manufactured gas plant. In 1909 the state of Virginia had 21 manufactured gas plants in operation, and 14 of those were run by corporations. The United States Environmental Protection Agency and others estimate that from c. 1815 to c. 1960, over 50,000 manufactured gas plants operated in the United States. By the mid-1960s, the few plants that were still in operation closed due to a lack of demand for coal and coal tar by-products (Heritage Research Center, LTD. 2003a).

The Fulton Gas Works has been referred to historically as the Richmond Municipal Gas Works, or simply Richmond Gas Works. During the middle of the nineteenth century, a committee of Richmond city council members was dispatched to Baltimore, Philadelphia, New York, and Boston to observe how gas works were operated in those localities. The City of Richmond then decided to construct and operate a gas works to serve its citizens (Todd 1918). The first facility in Richmond was the Howard Road (Overbrook) Facility (VHDR #127-6184), which was constructed in 1851 on Cary Street between 15th and 16th Streets. The Richmond Gas Works (Fulton Gas Works) was an additional facility built at Rocketts Landing in the 1850s to accommodate the high demand for service. The original Richmond Gas Works buildings constructed in the 1850s were eventually demolished, and the new gas works buildings were rebuilt c. 1925. Nearly all of Richmond's gas manufacturing facilities were rebuilt between 1919 and 1924 at a cost of \$800,000 (Chen 2007), including the Howard Road Facility.

The Richmond Gas Works was somewhat unique in that it was owned by the city. While municipal gas works were common in Europe, private ownership prevailed in the United States (Gilman et al. 1906). The City of Richmond resisted purchase offers from private companies, including a particularly tempting offer to buy the Richmond Gas Works in 1892. One Richmond resident, the Hon. W. C. Carrington, stated the following in 1886:

"Our gas works have been operated with great success—furnishing our public lights free for streets and buildings, paying all expenses of manufacture and leaving in addition almost enough profit to pay six per cent interest on the whole cost of original and additional construction (Todd 1918:46)."

Albert M. Todd published "Municipal Ownership: With a Special Survey of Gas Plants in America and Europe in 1918", in which he championed municipal gas works over privately owned ones. Todd charged that "great financial interests that control gas in America" had distorted the facts concerning the Richmond Gas Works to discourage other municipalities from following Richmond's example (Todd 1918). Todd also pointed out that the City of Richmond owned its water works and electric light plant. These other endeavors were also successful according to Todd, so much so that the "municipalization of street railways also is hoped to be accomplished" (Todd 1918:43).

As of 1916, the Richmond Gas Works produced manufactured gas using two different methods. According to the works' official report for that year, both "coal gas" and "water gas" were produced at the facility. The coal carbonization or coal gas process was the older of the two methods. This method was the most frequently used method of commercial gas manufacture from about 1816 to 1875 (Heritage Research Center, LTD. 2003a).

The method of coal carbonization involved heating of bituminous coal in oxygen-free containers called retorts. The heating of the bituminous coal in this atmosphere broke the coal down for processing. About two-fifths of the coal was broken down into non-solids or gases, with the rest of the coal remaining as solids consisting mostly of coke. The gases went from the retort to the hydraulic main, where some were converted into liquids. The liquids included contaminated water, coal tar, and waste. The remaining coal gas left the hydraulic main and cooled in a condenser that helped remove additional wastes. Other processes removed still more wastes before the gas moved through the storage meter, where it was measured, to the gas storage holder. The gas was then ready for distribution. During the last quarter of the nineteenth century, this process was gradually supplanted by other methods. One of the methods was the carburetted "water gas" process developed in 1873 by Professor L. Lowe of Pennsylvania (Heritage Research Center, LTD. 2003a).

While the gas works provided a valuable service to their customers, they also created environmental problems that remained long after the facilities ceased operation. Large amounts of waste were dumped in nearby water sources and area landfills. In many instances the waste was disposed of on the site of the gas works in pits or underground tanks. These waste products have a slow rate of biodegradation and still pose a danger to many communities (Heritage Research Center, LTD. 2003b).

Secondary Resource Information

Secondary Resource #1

Resource Category:	Agriculture/Subsistence
Resource Type:	Storage
Architectural Style:	No Discernable Style
Form:	<i>No Data</i>
Date of Construction:	1940
Condition:	Good
Threats to Resource:	Deterioration, Development
Architectural Description:	

September 2007: Building #3 consists of three corrugated metal sheds that rest on old concrete piers that once formed the foundation of an earlier building. Two of the sheds feature shed roofs, and the third shed displays a gabled roof.

Number of Stories: 2

Secondary Resource #2

Resource Category: Agriculture/Subsistence
Resource Type: Storage
Architectural Style: No Discernable Style
Form: *No Data*
Date of Construction: 1925
Condition: Good
Threats to Resource: Deterioration, Development
Architectural Description:

September 2007: West of the main building (#1) is a collection of brick buildings joined together to form building #2. Building #2 is clad in brick and has multiple gabled roof sections that are clad in corrugated metal. The largest part of the building features a gabled roof clad in asphalt shingles. Two sections of the building display stepped parapets and decorative brick cornices. Fenestration consists of large industrial windows. A concrete block one-story addition was added to the south elevation.

Number of Stories: 2

Secondary Resource #3

Resource Category: Domestic
Resource Type: Single Dwelling
Architectural Style: No Discernable Style
Form: *No Data*
Date of Construction: 1940
Condition: Fair
Threats to Resource: Deterioration, Development
Architectural Description:

September 2007: In the middle of all of the buildings is a large circular metal frame. The circular metal frame once housed a gas storage tank. Today an empty metal frame is all that is left of the gas storage tank.

Number of Stories: 2

Historic District Information

Historic District Name: *No Data*
Local Historic District Name: *No Data*
Historic District Significance: *No Data*

CRM Events

Event Type: DHR Staff: Eligible

DHR ID: 127-6255
Staff Name: Holma, Marc
Event Date: 12/18/2007
Staff Comment

VDHR concurs with CCR's recommendation that this resource is eligible for listing in the NRHP.

Event Type: Survey:Phase I/Reconnaissance

Project Review File Number: 2007-1362
Investigator: CCR, Inc.
Organization/Company: Unknown (DSS)
Sponsoring Organization: *No Data*

Survey Date: 9/11/2007
Dhr Library Report Number: 2007-1362
Project Staff/Notes:
Cultural Resources Survey for the Proposed Improvements to Route 5, Richmond, VA.

Bibliographic Information

Bibliography:

No Data

Property Notes:

No Data

Project Bibliographic Information:

Name: Chryst, Abby Marie
Record Type: Report
Bibliographic Notes: "Fulton Gas Works: Historical, Cultural, and Ethnographic Meanings of Site [re]-activating the urban fabric" -- 2011
The University of Virginia · MArch Post-Professional · Architectural Thesis; Adviser: Daniel Bluestone.

Name: James, et al., Tiffany A.
DHR CRM Report Number: 2007-1362
Record Type: Report
Bibliographic Notes: HE-242: Cultural Resoureces Survey of Proposed Improvements to Route 5 in the City of Richmond, Virginia

Prepared by Tiffany A. James, Jennifer Stewart, Bill Hall, and Loretta Lautzenheiser of Coastal Carolina Research, Inc.

Record Type: Other
Bibliographic Notes: Heritage Research Center, LTD.
2003aWhat is Manufactured Gas? In A Brief History of the Manufactured Gas Industry in the United States. Electronic document,http://www.heritageresearch.com/manufactured_gas_C.htm. Accessed June 2, 2004.

Name: Gilman, Daniel
Record Type: Book
Bibliographic Notes: Gilman, Daniel Coit, Harry Thurston Peck, and Frank Moore Colby 1906 Municipal Ownership. In The New International Encyclopedia. Volume XIV. Dodd, Mead and Company, New York.

Name: Chen, Kimberly M.
Record Type: NRHP Form
Bibliographic Notes: Chen, Kimberly M. and Hannah W. Collins, 2007Department of Public Utilities Howard (Overbrook) Road Facility, National Register of Historic Places Nomination. Johanna Design Group. Richmond, Virginia.

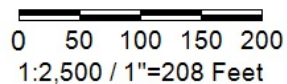


Legend

- Architecture Resources
- Architecture Labels
- Individual Historic District Properties
- Archaeological Resources
- Archaeology Labels
- DHR Easements
- USGS GIS Place names
- County Boundaries



Feet



Title: Architecture Labels

Date: 8/20/2015

DISCLAIMER: Records of the Virginia Department of Historic Resources (DHR) have been gathered over many years from a variety of sources and the representation depicted is a cumulative view of field observations over time and may not reflect current ground conditions. The map is for general information purposes and is not intended for engineering, legal or other site-specific uses. Map may contain errors and is provided "as-is". More information is available in the DHR Archives located at DHR's Richmond office.

Notice if AE sites: Locations of archaeological sites may be sensitive the National Historic Preservation Act (NHPA), and the Archaeological Resources Protection Act (ARPA) and Code of Virginia §2.2-3705.7 (10). Release of precise locations may threaten archaeological sites and historic resources.