APPENDIX A: Socio-Economic Data

Adjacent Property Owner Information

Poverty Thresholds for 2018 by Size of Family and Number of Related Children Under 18 Years

Size of family unit	Weighted average thresholds	Related children under 18 years								
		None	One	Two	Three	Four	Five	Six	Seven	Eight or more
One person (unrelated individual):	12,784									
Under age 65	13,064	13,064								
Aged 65 and older	12,043	12,043								
Two people:	16,247									
Householder under age 65	16,889	16,815	17,308							
Householder aged 65 and older	15,193	15,178	17,242							
Three people	19,985	19,642	20,212	20,231						
Four people	25,701	25,900	26,324	25,465	25,554					
Five people	30,459	31,234	31,689	30,718	29,967	29,509				
Six people	34,533	35,925	36,068	35,324	34,612	33,553	32,925			
Seven people	39,194	41,336	41,594	40,705	40,085	38,929	37,581	36,102		
Eight people	43,602	46,231	46,640	45,800	45,064	44,021	42,696	41,317	40,967	
Nine people or more	51,393	55,613	55,883	55,140	54,516	53,491	52,082	50,807	50,491	48,546

Source: U.S. Census Bureau.

Crittenden Road (Route 268) and Bridge Road (Route 17) Intersection Realignment Environmental Justice Information

Zip Code/ Location	Total Population	Evaluated Population	Median Household Income	*Poverty Threshold Income	Low-Income Population	Low-Income Percentage	Minority Population	Minority Percentage
23433	1,128	1,110	$80,000	$25,701	42	3.8	149	13.4
23436	942	932	$102,118	$25,701	11	1.2	157	16.8
Suffolk City	88,057	87,124	$66,085	$25,701	9,757	11.2	41,602	47.8

The above data were provided by United States Census Bureau 2013-2017 American Community Survey 5-Year Estimates: https://factfinder.census.gov/faces/nav/jsf/pages/community_facts.xhtml

**Based on United States Census Bureau 2018 poverty threshold data for a four-person household*

S1701

POVERTY STATUS IN THE PAST 12 MONTHS

2013-2017 American Community Survey 5-Year Estimates

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Subject	ZCTA5 23436				
	Total		Below poverty level		Percent below poverty level
	Estimate	Margin of Error	Estimate	Margin of Error	Estimate
Population for whom poverty status is determined	932	+/-126	11	+/-11	1.2%
AGE					
Under 18 years	218	+/-66	0	+/-12	0.0%
Under 5 years	64	+/-35	0	+/-12	0.0%
5 to 17 years	154	+/-51	0	+/-12	0.0%
Related children of householder under 18 years	218	+/-66	0	+/-12	0.0%
18 to 64 years	546	+/-89	5	+/-7	0.9%
18 to 34 years	131	+/-79	0	+/-12	0.0%
35 to 64 years	415	+/-82	5	+/-7	1.2%
60 years and over	264	+/-63	11	+/-11	4.2%
65 years and over	168	+/-50	6	+/-9	3.6%
SEX					
Male	509	+/-105	0	+/-12	0.0%
Female	423	+/-63	11	+/-11	2.6%
RACE AND HISPANIC OR LATINO ORIGIN					
White alone	775	+/-139	5	+/-7	0.6%
Black or African American alone	144	+/-92	6	+/-9	4.2%
American Indian and Alaska Native alone	4	+/-8	0	+/-12	0.0%
Asian alone	0	+/-12	0	+/-12	-
Native Hawaiian and Other Pacific Islander alone	0	+/-12	0	+/-12	-
Some other race alone	0	+/-12	0	+/-12	-
Two or more races	9	+/-10	0	+/-12	0.0%
Hispanic or Latino origin (of any race)	6	+/-8	0	+/-12	0.0%
White alone, not Hispanic or Latino	773	+/-138	5	+/-7	0.6%
EDUCATIONAL ATTAINMENT					
Population 25 years and over	694	+/-83	11	+/-11	1.6%
Less than high school graduate	15	+/-13	6	+/-9	40.0%
High school graduate (includes equivalency)	139	+/-46	0	+/-12	0.0%
Some college, associate's degree	276	+/-58	5	+/-7	1.8%

Subject	ZCTA5 23436				
	Total		Below poverty level		Percent below poverty level
	Estimate	Margin of Error	Estimate	Margin of Error	Estimate
Bachelor's degree or higher	264	+/-70	0	+/-12	0.0%
EMPLOYMENT STATUS					
Civilian labor force 16 years and over	451	+/-94	0	+/-12	0.0%
Employed	451	+/-94	0	+/-12	0.0%
Male	236	+/-64	0	+/-12	0.0%
Female	215	+/-52	0	+/-12	0.0%
Unemployed	0	+/-12	0	+/-12	-
Male	0	+/-12	0	+/-12	-
Female	0	+/-12	0	+/-12	-
WORK EXPERIENCE					
Population 16 years and over	729	+/-92	11	+/-11	1.5%
Worked full-time, year-round in the past 12 months	382	+/-79	0	+/-12	0.0%
Worked part-time or part-year in the past 12 months	114	+/-43	0	+/-12	0.0%
Did not work	233	+/-52	11	+/-11	4.7%
ALL INDIVIDUALS WITH INCOME BELOW THE FOLLOWING POVERTY RATIOS					
50 percent of poverty level	0	+/-12	(X)	(X)	(X)
125 percent of poverty level	28	+/-22	(X)	(X)	(X)
150 percent of poverty level	39	+/-24	(X)	(X)	(X)
185 percent of poverty level	39	+/-24	(X)	(X)	(X)
200 percent of poverty level	39	+/-24	(X)	(X)	(X)
300 percent of poverty level	77	+/-47	(X)	(X)	(X)
400 percent of poverty level	234	+/-130	(X)	(X)	(X)
500 percent of poverty level	376	+/-150	(X)	(X)	(X)
UNRELATED INDIVIDUALS FOR WHOM POVERTY STATUS IS DETERMINED	81	+/-33	11	+/-11	13.6%
Male	37	+/-26	0	+/-12	0.0%
Female	44	+/-24	11	+/-11	25.0%
15 years	0	+/-12	0	+/-12	-
16 to 17 years	0	+/-12	0	+/-12	-
18 to 24 years	0	+/-12	0	+/-12	-
25 to 34 years	6	+/-10	0	+/-12	0.0%
35 to 44 years	16	+/-21	0	+/-12	0.0%
45 to 54 years	5	+/-7	0	+/-12	0.0%
55 to 64 years	14	+/-11	5	+/-7	35.7%
65 to 74 years	25	+/-18	6	+/-9	24.0%
75 years and over	15	+/-13	0	+/-12	0.0%
Mean income deficit for unrelated individuals (dollars)	N	N	(X)	(X)	(X)
Worked full-time, year-round in the past 12 months	24	+/-22	0	+/-12	0.0%
Worked less than full-time, year-round in the past 12 months	12	+/-13	0	+/-12	0.0%
Did not work	45	+/-23	11	+/-11	24.4%

Subject	ZCTA5 23436
	Percent below poverty level
	Margin of Error
Population for whom poverty status is determined	+/-1.2
AGE	
Under 18 years	+/-13.8
Under 5 years	+/-37.0
5 to 17 years	+/-18.9
Related children of householder under 18 years	+/-13.8
18 to 64 years	+/-1.2
18 to 34 years	+/-21.7
35 to 64 years	+/-1.6
60 years and over	+/-4.2
65 years and over	+/-5.2
SEX	
Male	+/-6.2
Female	+/-2.6
RACE AND HISPANIC OR LATINO ORIGIN	
White alone	+/-0.9
Black or African American alone	+/-7.1
American Indian and Alaska Native alone	+/-100.0
Asian alone	**
Native Hawaiian and Other Pacific Islander alone	**
Some other race alone	**
Two or more races	+/-98.9
Hispanic or Latino origin (of any race)	+/-100.0
White alone, not Hispanic or Latino	+/-0.9
EDUCATIONAL ATTAINMENT	
Population 25 years and over	+/-1.6
Less than high school graduate	+/-47.1
High school graduate (includes equivalency)	+/-20.7
Some college, associate's degree	+/-2.4
Bachelor's degree or higher	+/-11.6
EMPLOYMENT STATUS	
Civilian labor force 16 years and over	+/-6.9
Employed	+/-6.9
Male	+/-12.8
Female	+/-14.0
Unemployed	**
Male	**
Female	**
WORK EXPERIENCE	
Population 16 years and over	+/-1.5
Worked full-time, year-round in the past 12 months	+/-8.2
Worked part-time or part-year in the past 12 months	+/-24.4
Did not work	+/-4.9
ALL INDIVIDUALS WITH INCOME BELOW THE FOLLOWING POVERTY RATIOS	
50 percent of poverty level	(X)
125 percent of poverty level	(X)
150 percent of poverty level	(X)
185 percent of poverty level	(X)
200 percent of poverty level	(X)

Subject	ZCTA5 23436
	Percent below poverty level
	Margin of Error
300 percent of poverty level	(X)
400 percent of poverty level	(X)
500 percent of poverty level	(X)
UNRELATED INDIVIDUALS FOR WHOM POVERTY STATUS IS DETERMINED	+/-12.6
Male	+/-48.8
Female	+/-21.5
15 years	**
16 to 17 years	**
18 to 24 years	**
25 to 34 years	+/-100.0
35 to 44 years	+/-74.1
45 to 54 years	+/-100.0
55 to 64 years	+/-43.8
65 to 74 years	+/-36.8
75 years and over	+/-76.6
Mean income deficit for unrelated individuals (dollars)	(X)
Worked full-time, year-round in the past 12 months	+/-60.5
Worked less than full-time, year-round in the past 12 months	+/-85.6
Did not work	+/-21.9

Data are based on a sample and are subject to sampling variability. The degree of uncertainty for an estimate arising from sampling variability is represented through the use of a margin of error. The value shown here is the 90 percent margin of error. The margin of error can be interpreted roughly as providing a 90 percent probability that the interval defined by the estimate minus the margin of error and the estimate plus the margin of error (the lower and upper confidence bounds) contains the true value. In addition to sampling variability, the ACS estimates are subject to nonsampling error (for a discussion of nonsampling variability, see Accuracy of the Data). The effect of nonsampling error is not represented in these tables.

While the 2013-2017 American Community Survey (ACS) data generally reflect the February 2013 Office of Management and Budget (OMB) definitions of metropolitan and micropolitan statistical areas; in certain instances the names, codes, and boundaries of the principal cities shown in ACS tables may differ from the OMB definitions due to differences in the effective dates of the geographic entities.

Estimates of urban and rural populations, housing units, and characteristics reflect boundaries of urban areas defined based on Census 2010 data. As a result, data for urban and rural areas from the ACS do not necessarily reflect the results of ongoing urbanization.

Source: U.S. Census Bureau, 2013-2017 American Community Survey 5-Year Estimates

Explanation of Symbols:

1. An '**' entry in the margin of error column indicates that either no sample observations or too few sample observations were available to compute a standard error and thus the margin of error. A statistical test is not appropriate.
2. An '-' entry in the estimate column indicates that either no sample observations or too few sample observations were available to compute an estimate, or a ratio of medians cannot be calculated because one or both of the median estimates falls in the lowest interval or upper interval of an open-ended distribution.
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4. An '+' following a median estimate means the median falls in the upper interval of an open-ended distribution.
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6. An '*****' entry in the margin of error column indicates that the estimate is controlled. A statistical test for sampling variability is not appropriate.
7. An 'N' entry in the estimate and margin of error columns indicates that data for this geographic area cannot be displayed because the number of sample cases is too small.
8. An '(X)' means that the estimate is not applicable or not available.

S1701

POVERTY STATUS IN THE PAST 12 MONTHS

2013-2017 American Community Survey 5-Year Estimates

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Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, it is the Census Bureau's Population Estimates Program that produces and disseminates the official estimates of the population for the nation, states, counties, cities, and towns and estimates of housing units for states and counties.

Subject	ZCTA5 23433				
	Total		Below poverty level		Percent below poverty level
	Estimate	Margin of Error	Estimate	Margin of Error	Estimate
Population for whom poverty status is determined	1,110	+/-115	42	+/-37	3.8%
AGE					
Under 18 years	81	+/-42	11	+/-17	13.6%
Under 5 years	17	+/-14	5	+/-8	29.4%
5 to 17 years	64	+/-38	6	+/-9	9.4%
Related children of householder under 18 years	81	+/-42	11	+/-17	13.6%
18 to 64 years	650	+/-95	25	+/-27	3.8%
18 to 34 years	174	+/-53	6	+/-8	3.4%
35 to 64 years	476	+/-77	19	+/-25	4.0%
60 years and over	529	+/-77	10	+/-9	1.9%
65 years and over	379	+/-67	6	+/-9	1.6%
SEX					
Male	552	+/-68	4	+/-6	0.7%
Female	558	+/-73	38	+/-37	6.8%
RACE AND HISPANIC OR LATINO ORIGIN					
White alone	961	+/-111	23	+/-26	2.4%
Black or African American alone	66	+/-76	4	+/-6	6.1%
American Indian and Alaska Native alone	3	+/-6	0	+/-12	0.0%
Asian alone	36	+/-31	0	+/-12	0.0%
Native Hawaiian and Other Pacific Islander alone	0	+/-12	0	+/-12	-
Some other race alone	31	+/-44	15	+/-25	48.4%
Two or more races	13	+/-14	0	+/-12	0.0%
Hispanic or Latino origin (of any race)	38	+/-45	15	+/-25	39.5%
White alone, not Hispanic or Latino	961	+/-111	23	+/-26	2.4%
EDUCATIONAL ATTAINMENT					
Population 25 years and over	961	+/-95	31	+/-28	3.2%
Less than high school graduate	63	+/-52	15	+/-25	23.8%
High school graduate (includes equivalency)	215	+/-49	6	+/-9	2.8%
Some college, associate's degree	301	+/-59	10	+/-11	3.3%

Subject	ZCTA5 23433				
	Total		Below poverty level		Percent below poverty level
	Estimate	Margin of Error	Estimate	Margin of Error	Estimate
Bachelor's degree or higher	382	+/-64	0	+/-12	0.0%
EMPLOYMENT STATUS					
Civilian labor force 16 years and over	598	+/-93	15	+/-25	2.5%
Employed	569	+/-89	15	+/-25	2.6%
Male	291	+/-50	0	+/-12	0.0%
Female	278	+/-62	15	+/-25	5.4%
Unemployed	29	+/-21	0	+/-12	0.0%
Male	29	+/-21	0	+/-12	0.0%
Female	0	+/-12	0	+/-12	-
WORK EXPERIENCE					
Population 16 years and over	1,029	+/-98	31	+/-28	3.0%
Worked full-time, year-round in the past 12 months	413	+/-81	0	+/-12	0.0%
Worked part-time or part-year in the past 12 months	203	+/-59	15	+/-25	7.4%
Did not work	413	+/-80	16	+/-12	3.9%
ALL INDIVIDUALS WITH INCOME BELOW THE FOLLOWING POVERTY RATIOS					
50 percent of poverty level	23	+/-26	(X)	(X)	(X)
125 percent of poverty level	59	+/-43	(X)	(X)	(X)
150 percent of poverty level	64	+/-44	(X)	(X)	(X)
185 percent of poverty level	118	+/-70	(X)	(X)	(X)
200 percent of poverty level	123	+/-72	(X)	(X)	(X)
300 percent of poverty level	218	+/-85	(X)	(X)	(X)
400 percent of poverty level	340	+/-104	(X)	(X)	(X)
500 percent of poverty level	513	+/-117	(X)	(X)	(X)
UNRELATED INDIVIDUALS FOR WHOM POVERTY STATUS IS DETERMINED	194	+/-58	25	+/-26	12.9%
Male	90	+/-39	4	+/-6	4.4%
Female	104	+/-46	21	+/-26	20.2%
15 years	0	+/-12	0	+/-12	-
16 to 17 years	0	+/-12	0	+/-12	-
18 to 24 years	25	+/-24	0	+/-12	0.0%
25 to 34 years	31	+/-24	0	+/-12	0.0%
35 to 44 years	52	+/-37	15	+/-25	28.8%
45 to 54 years	14	+/-13	0	+/-12	0.0%
55 to 64 years	27	+/-18	4	+/-6	14.8%
65 to 74 years	13	+/-14	0	+/-12	0.0%
75 years and over	32	+/-20	6	+/-9	18.8%
Mean income deficit for unrelated individuals (dollars)	N	N	(X)	(X)	(X)
Worked full-time, year-round in the past 12 months	88	+/-38	0	+/-12	0.0%
Worked less than full-time, year-round in the past 12 months	64	+/-40	15	+/-25	23.4%
Did not work	42	+/-23	10	+/-9	23.8%

Subject	ZCTA5 23433
	Percent below poverty level
	Margin of Error
Population for whom poverty status is determined	+/-3.3
AGE	
Under 18 years	+/-20.0
Under 5 years	+/-43.3
5 to 17 years	+/-14.8
Related children of householder under 18 years	+/-20.0
18 to 64 years	+/-4.1
18 to 34 years	+/-4.7
35 to 64 years	+/-5.3
60 years and over	+/-1.6
65 years and over	+/-2.4
SEX	
Male	+/-1.1
Female	+/-6.3
RACE AND HISPANIC OR LATINO ORIGIN	
White alone	+/-2.7
Black or African American alone	+/-16.9
American Indian and Alaska Native alone	+/-100.0
Asian alone	+/-49.4
Native Hawaiian and Other Pacific Islander alone	**
Some other race alone	+/-25.6
Two or more races	+/-82.3
Hispanic or Latino origin (of any race)	+/-29.0
White alone, not Hispanic or Latino	+/-2.7
EDUCATIONAL ATTAINMENT	
Population 25 years and over	+/-2.8
Less than high school graduate	+/-25.5
High school graduate (includes equivalency)	+/-4.1
Some college, associate's degree	+/-3.3
Bachelor's degree or higher	+/-8.2
EMPLOYMENT STATUS	
Civilian labor force 16 years and over	+/-4.0
Employed	+/-4.2
Male	+/-10.6
Female	+/-8.6
Unemployed	+/-55.1
Male	+/-55.1
Female	**
WORK EXPERIENCE	
Population 16 years and over	+/-2.7
Worked full-time, year-round in the past 12 months	+/-7.6
Worked part-time or part-year in the past 12 months	+/-11.2
Did not work	+/-3.1
ALL INDIVIDUALS WITH INCOME BELOW THE FOLLOWING POVERTY RATIOS	
50 percent of poverty level	(X)
125 percent of poverty level	(X)
150 percent of poverty level	(X)
185 percent of poverty level	(X)
200 percent of poverty level	(X)

Subject	ZCTA5 23433
	Percent below poverty level
	Margin of Error
300 percent of poverty level	(X)
400 percent of poverty level	(X)
500 percent of poverty level	(X)
UNRELATED INDIVIDUALS FOR WHOM POVERTY STATUS IS DETERMINED	+/-11.4
Male	+/-6.7
Female	+/-22.7
15 years	**
16 to 17 years	**
18 to 24 years	+/-59.3
25 to 34 years	+/-53.3
35 to 44 years	+/-37.1
45 to 54 years	+/-79.3
55 to 64 years	+/-20.3
65 to 74 years	+/-82.3
75 years and over	+/-24.8
Mean income deficit for unrelated individuals (dollars)	(X)
Worked full-time, year-round in the past 12 months	+/-29.9
Worked less than full-time, year-round in the past 12 months	+/-31.9
Did not work	+/-18.6

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6. An '*****' entry in the margin of error column indicates that the estimate is controlled. A statistical test for sampling variability is not appropriate.
7. An 'N' entry in the estimate and margin of error columns indicates that data for this geographic area cannot be displayed because the number of sample cases is too small.
8. An '(X)' means that the estimate is not applicable or not available.

Crittenden Road (Route 628) and Bridge Road (Route 17) Intersection Realignment Adjacent Property Owner Information

ACCOUNT NO.	CURRENT OWNER	FY 18/19 ASSESSMENT	STRUCTURES (Y/N)	PROPERTY ADDRESS	PROPERTY CITY	STATE	PROPERTY ZIP	MEDIAN HOME VALUE / ZIP CODE	HOME VALUE </> MEDIAN VALUE
251822000	CLARKE BETTY H	$597,100.00	Y	1753/1747 Bridge Road	SUFFOLK	VA	23433	$274,100.00	GREATER THAN
252389000	SIMONETTI SAL & RUBY ARNETTE	$63,800.00	N	0 Cornus Court	SUFFOLK	VA	23433	$274,100.00	N/A
250800000	GREYSTONE LLC	$719,200.00	N	8848 Crittenden Road	SUFFOLK	VA	23436	$238,200.00	N/A
250139000	OAKEY CHARLES T & DONNA B	$231,100.00	Y	8647 Crittenden Road	SUFFOLK	VA	23436	$238,200.00	LESS THAN*
252390000	GARCIA MICHAEL A & STARR B	$280,700.00	Y	8643 Crittenden Road	SUFFOLK	VA	23436	$238,200.00	GREATER THAN
252391042	KENNARD TOWNEY G III & HEATHER	$352,900.00	Y	8639 Crittenden Road	SUFFOLK	VA	23436	$238,200.00	GREATER THAN
252391044	JOHNSON ALVIN B & PEGGY J	$252,700.00	Y	8792 Adams Drive	SUFFOLK	VA	23433	$274,100.00	LESS THAN*
252391046	BUCKWATER PAUL R	$280,500.00	Y	8788 Adams Drive	SUFFOLK	VA	23433	$274,100.00	GREATER THAN
252391048	TOTTEN MICHAEL D & KIMBERLY M	$341,500.00	Y	8784 Adams Drive	SUFFOLK	VA	23433	$274,100.00	GREATER THAN
252391050	COCHRAN ROBIN P II & TONIMARIE	$391,500.00	Y	8780 Adams Drive	SUFFOLK	VA	23433	$274,100.00	GREATER THAN
252391052	LONG JOHN ALLEN & NAOMI J TRS	$399,800.00	Y	8776 Adams Drive	SUFFOLK	VA	23433	$274,100.00	GREATER THAN
252391054	CLARK NICHOLAS L & NATALIE A	$371,300.00	Y	8772 Adams Drive	SUFFOLK	VA	23433	$274,100.00	GREATER THAN
253499300	GOVERNORS PT HMOWNERS ASSOC.	$56,700.00	N	100 Botetourt Lane	SUFFOLK	VA	23433	$274,100.00	N/A
253058400	PINKHAM WILLIAM W & LINDA D	$251,900.00	N	N/A	SUFFOLK	VA	23433	$274,100.00	N/A
251118500	PINKHAM WILLIAM W & LINDA D	$165,600.00	N	N/A	SUFFOLK	VA	23433	$274,100.00	N/A
251119000	PINKHAM WILLIAM W & LINDA D	$280,400.00	N	N/A	SUFFOLK	VA	23433	$274,100.00	N/A
251994500	PINKHAM WILLIAM W & LINDA D	$532,200.00	Y	1871 BRIDGE RD	SUFFOLK	VA	23433	$274,100.00	GREATER THAN
250422000	FRIENDS OF CEDAR PT COUNTRY CLUB	$3,155,000.00	Y	8056 Clubhouse Drive	SUFFOLK	VA	23433	$274,100.00	N/A
252987300	GARTMAN DENNIS & MARGARET	$135,600.00	N	8001 Clubhouse Drive	SUFFOLK	VA	23433	$274,100.00	N/A
250438000	CEPCAO INC	$159,200.00	N	N/A	SUFFOLK	VA	23433	$274,100.00	N/A
252388000	INNOVATIVE DEVELOPMENTS LLC	$66,800.00	N	1615 Upton Place	SUFFOLK	VA	23433	$274,100.00	N/A

*Within 10% of median home value

Information obtained from City of Suffolk GIS mapping (accessed July 2019) and the United States Census Bureau (2018)

APPENDIX B: Section 4(f) and Section 6(f) Data

VDHR VCRIS Mapping

DCR Managed Conservation Lands Mapping

DCR- Virginia Outdoors Plan Mapping

Virginia Dept. of Historic Resources

V-CRIS

Virginia Cultural Resource Information System

Legend

- Architecture Labels
- Architecture Points
- Historic Districts
- USGS GIS Place names
- County Boundaries

N

Feet

0 100 200 300 400

1:4,514 / 1"=376 Feet

Title: Crittenden Rd & Rte 17 Intersection APE

Date: 7/22/2019

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.

Crittenden Road and Route 628 Intersection Realignment

August 12, 2019

Managed Conservation Lands

- Designation
- Coheld Easement
- Conservation Easement
- Federal Lands
- Local Lands
- Non-Profit Lands
- State Lands
- ConserveVirginia Map

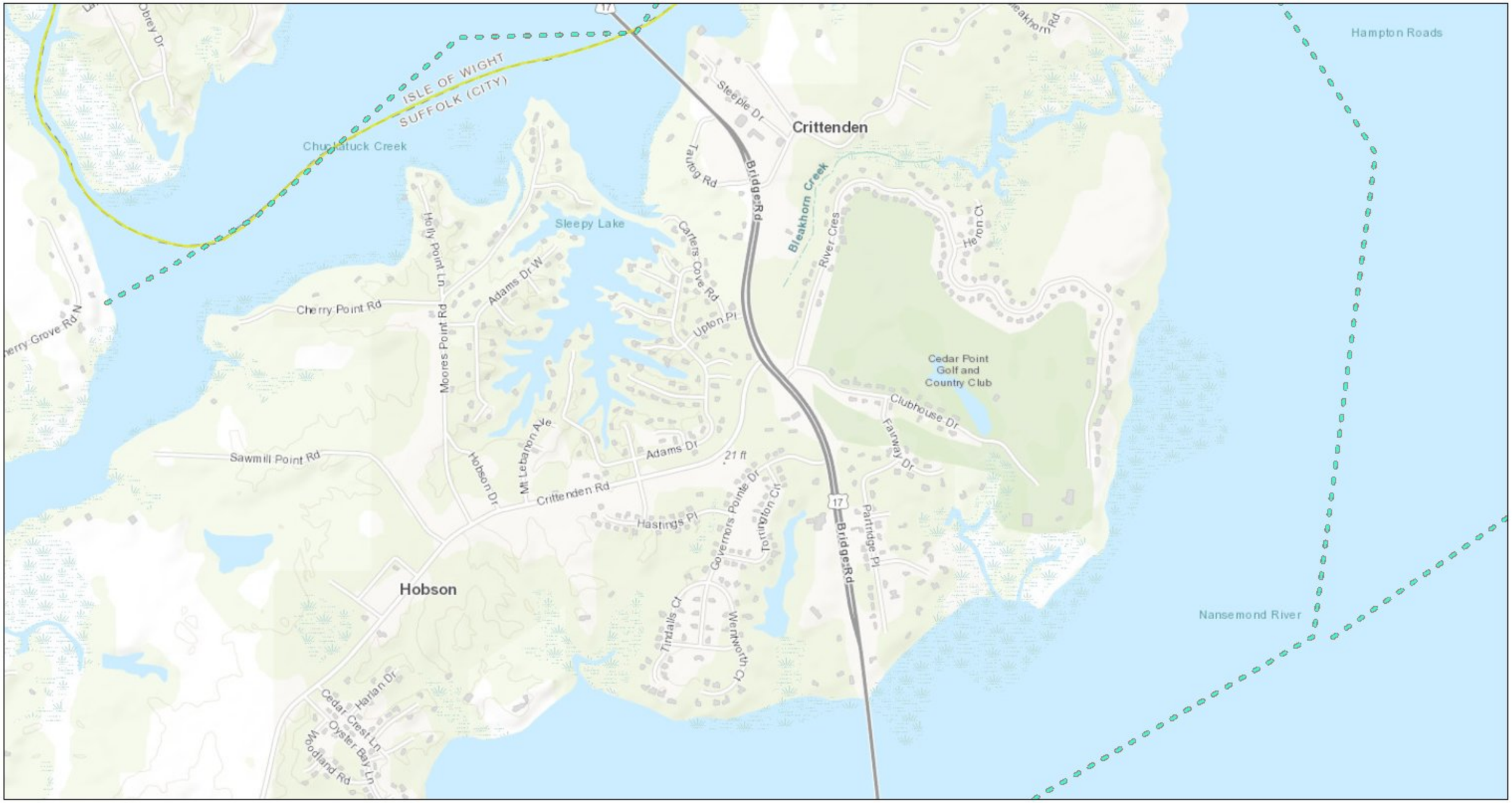
1:29,190

0 0.25 0.5 1 mi

0 0.4 0.8 1.6 km

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

VA-DCR: Virginia Outdoors Plan Mapper



August 26, 2019

1:17,212

0 0.2 0.4 0.8 mi

0 0.325 0.65 1.3 km

- LWCF (6f) State/Local Assistance Grants
- Boat Access Points
- Trailheads

Existing Statewide Trails in Virginia

- On-road
- Trail

Managed Trails

- Federal
- State
- Local and Regional
- VA Scenic Byways
- Thematic Driving Tours

- Historic Resources

Blueways

- Existing
- Proposed

Scenic River

- Designated

- Potential
- Qualified
- Public Fishing Lakes

Public Access Lands

- Federal
- Local
- Non-Profit
- State

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Map Layout: VA-DCR

APPENDIX C: Cultural Resources Data

VDHR No Effect Determination

COMMONWEALTH of VIRGINIA

Department of Historic Resources

Matt Strickler
Secretary of Natural Resources

2801 Kensington Avenue, Richmond, Virginia 23221

Julie V. Langan
Director

Tel: (804) 367-2323
Fax: (804) 367-2391
www.dhr.virginia.gov

MEMORANDUM

DATE: 6 August 2019 **DHR File #** 2019-3849

TO: Ms Molly Bertsch
Map Environmental

FROM: Marc E. Holma, Architectural Historian (804) 482-6090
Office of Review and Compliance

PROJECT: Crittenden Road and Route 17 Intersection Realignment
City of Suffolk

___ This project will have an effect on historic resources. Based on the information provided, the effect will not be adverse.

___ This project will have an adverse effect on historic properties. Further consultation with DHR is needed under Section 106 of the NHPA.

___ Additional information is needed before we will be able to determine the effect of the project on historic resources. **Please see below.**

_X_ No further identification efforts are warranted. No historic properties will be affected by the project. Should unidentified historic properties be discovered during implementation of the project, please notify DHR.

___ We have previously reviewed this project. Attached is a copy of our correspondence.

___ Other (Please see comments below)

COMMENTS:

Administrative Services
10 Courthouse Ave.
Petersburg, VA 23803
Tel: (804) 862-6408
Fax: (804) 862-6196

Eastern Region Office
2801 Kensington Avenue
Richmond, VA 23221
Tel: (804) 367-2323
Fax: (804) 367-2391

Western Region Office
962 Kime Lane
Salem, VA 24153
Tel: (540) 387-5443
Fax: (540) 387-5446

Northern Region Office
5357 Main Street
PO Box 519
Stephens City, VA 22655
Tel: (540) 868-7029
Fax: (540) 868-7033

APPENDIX D: Federal Threatened or Endangered Species Data

DCR Scoping Response Letter

USFWS Species Conclusion Table

USFWS NLEB Verification Letter

USFWS Self-Certification Letter

DGIF Virginia Fish and Wildlife Information Service (VaFWIS) Report

Matthew J. Strickler
Secretary of Natural Resources

Clyde E. Cristman
Director

COMMONWEALTH of VIRGINIA

DEPARTMENT OF CONSERVATION AND RECREATION

Rochelle Altholz
Deputy Director of Administration and Finance

Russell W. Baxter
Deputy Director of Dam Safety & Floodplain Management and Soil & Water Conservation

Thomas L. Smith
Deputy Director of Operations

August 7, 2019

Molly Bertsch
MAP Environmental, Inc.
116 Landmark Square
Virginia Beach, VA 23452

Re: UPC 111089, Crittenden Road and Route 17 Intersection Realignment

Dear Ms. Bertsch:

The Department of Conservation and Recreation's Division of Natural Heritage (DCR) has searched its Biotics Data System for occurrences of natural heritage resources from the area outlined on the submitted map. Natural heritage resources are defined as the habitat of rare, threatened, or endangered plant and animal species, unique or exemplary natural communities, and significant geologic formations.

According to the information currently in Biotics, natural heritage resources have not been documented within the submitted project boundary including a 100 foot buffer. The absence of data may indicate that the project area has not been surveyed, rather than confirm that the area lacks natural heritage resources. In addition, the project boundary does not intersect any of the predictive models identifying potential habitat for natural heritage resources.

Under a Memorandum of Agreement established between the Virginia Department of Agriculture and Consumer Services (VDACS) and the DCR, DCR represents VDACS in comments regarding potential impacts on state-listed threatened and endangered plant and insect species. The current activity will not affect any documented state-listed plants or insects.

There are no State Natural Area Preserves under DCR's jurisdiction in the project vicinity.

New and updated information is continually added to Biotics. Please re-submit a completed order form and project map for an update on this natural heritage information if the scope of the project changes and/or six months has passed before it is utilized.

A fee of $90.00 has been assessed for the service of providing this information. Please find attached an invoice for that amount. Please return one copy of the invoice along with your remittance made payable to the Treasurer of Virginia, **DCR - Division of Natural Heritage, 600 East Main Street, 24th Floor, Richmond, VA 23219.** Payment is due within thirty days of the invoice date. Please note the change of address for remittance of payment as of July 1, 2013. Late payment may result in the suspension of project review service for future projects.

The Virginia Department of Game and Inland Fisheries (VDGIF) maintains a database of wildlife locations, including threatened and endangered species, trout streams, and anadromous fish waters that may contain information not documented in this letter. Their database may be accessed from http://vafwis.org/fwis/ or contact Ernie Aschenbach at 804-367-2733 or Ernie.Aschenbach@dgif.virginia.gov.

Should you have any questions or concerns, please contact me at 804-225-2429. Thank you for the opportunity to comment on this project.

Sincerely,

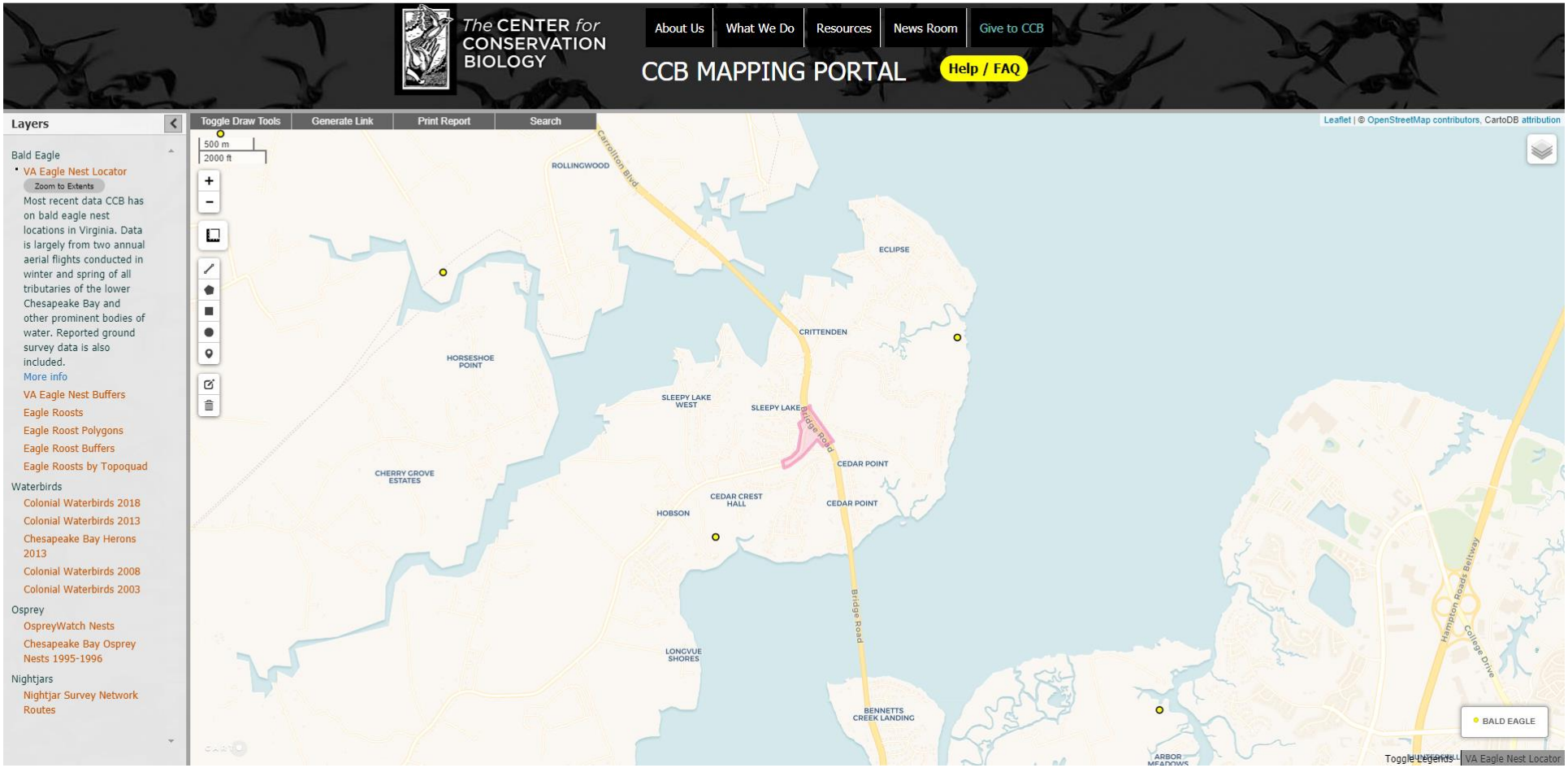
Tyler Meader
Natural Heritage Locality Liaison

Species Conclusions Table

Project Name: Crittenden Road and Route 17 Intersection Realignment (UPC 111089)

Date: 9/27/2019

Species/ Resource Name	Conclusion	ESA Section 7/ Eagle Act Determination	Notes/ Documentation
Northern Long-eared Bat (*Myotis septentrionalis)*	No critical Habitat present	May affect	Relying upon the findings of the 1/5/2016 Programmatic Biological Opinion for Final 4(d) Rule on the Northern Long-eared Bat and Activities Excepted from Take Prohibitions to fulfill our project-specific section 7 responsibilities. Data from IPaC Official Species List 9/27/2019.
Red-cockaded Woodpecker (*Picoides borealis)*	No suitable Habitat present	No effect	The red-cockaded woodpecker makes its home in mature pine forests, generally over 80 years old. Trees on the project site consist of predominantly Sweet Gum, with Loblolly Pine present but likely only approximately 30-40 years in age based on dbh.
Critical Habitat	No critical habitat present	No effect	
Bald Eagle	Unlikely to disturb nesting Bald Eagles	No Eagle Act permit required	Closest documented bald eagle nest (based on the Center for Conservation Biology VaEagles Nest Locator mapping) is approximately 3,000 linear feet from the area of proposed disturbance.
Bald Eagle	Does not intersect with an eagle concentration area	No Eagle Act permit required	Closest documented bald eagle roost (based on the Center for Conservation Biology national eagle roost registry) is approximately 10 miles from the area of proposed disturbance.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Layers
Bald Eagle
VA Eagle Nest Locator
Zoom to Extents
Most recent data CCB has on bald eagle nest locations in Virginia. Data is largely from two annual aerial flights conducted in winter and spring of all tributaries of the lower Chesapeake Bay and other prominent bodies of water. Reported ground survey data is also included.
More info
VA Eagle Nest Buffers
Eagle Roosts
Eagle Roost Polygons
Eagle Roost Buffers
Eagle Roosts by Topoquad
Waterbirds
Colonial Waterbirds 2018
Colonial Waterbirds 2013
Chesapeake Bay Herons 2013
Colonial Waterbirds 2008
Colonial Waterbirds 2003
Osprey
OspreyWatch Nests
Chesapeake Bay Osprey Nests 1995-1996
Nightjars
Nightjar Survey Network Routes
Toggle Draw Tools
Generate Link
Print Report
Search
500 m
2000 ft
Leaflet | © OpenStreetMap contributors, CartoDB attribution
ROLLINGWOOD
Carrollton Blvd
ECLIPSE
CRITTENDEN
HORSESHOE POINT
SLEEPY LAKE WEST
SLEEPY LAKE
Bridge Road
CEDAR POINT
CHERRY GROVE ESTATES
CEDAR CREST HALL
HOBSON
CEDAR POINT
Bridge Road
LONGVUE SHORES
BENNETTS CREEK LANDING
Hampton Roads Beltway
College Drive
ARBOR MEADOWS
BALD EAGLE
Toggle Legends
VA Eagle Nest Locator

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Virginia Ecological Services Field Office
6669 Short Lane
Gloucester, VA 23061-4410
Phone: (804) 693-6694 Fax: (804) 693-9032
http://www.fws.gov/northeast/virginiafield/

In Reply Refer To: September 27, 2019
Consultation Code: 05E2VA00-2019-SLI-5068
Event Code: 05E2VA00-2019-E-16681
Project Name: Crittenden Rd & Rte 17 Intersection

Subject: Updated list of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*). Any activity proposed on National Wildlife Refuge lands must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered

species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Virginia Ecological Services Field Office
6669 Short Lane
Gloucester, VA 23061-4410
(804) 693-6694

Project Summary

Consultation Code: 05E2VA00-2019-SLI-5068

Event Code: 05E2VA00-2019-E-16681

Project Name: Crittenden Rd & Rte 17 Intersection

Project Type: TRANSPORTATION

Project Description: Roadway Realignment, Suffolk, Virginia

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/place/36.901136841650356N76.49692194567257W

Counties: Suffolk, VA

Endangered Species Act Species

There is a total of 2 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

---

1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Northern Long-eared Bat *Myotis septentrionalis* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Threatened

Birds

NAME	STATUS
Red-cockaded Woodpecker *Picoides borealis* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/7614	Endangered

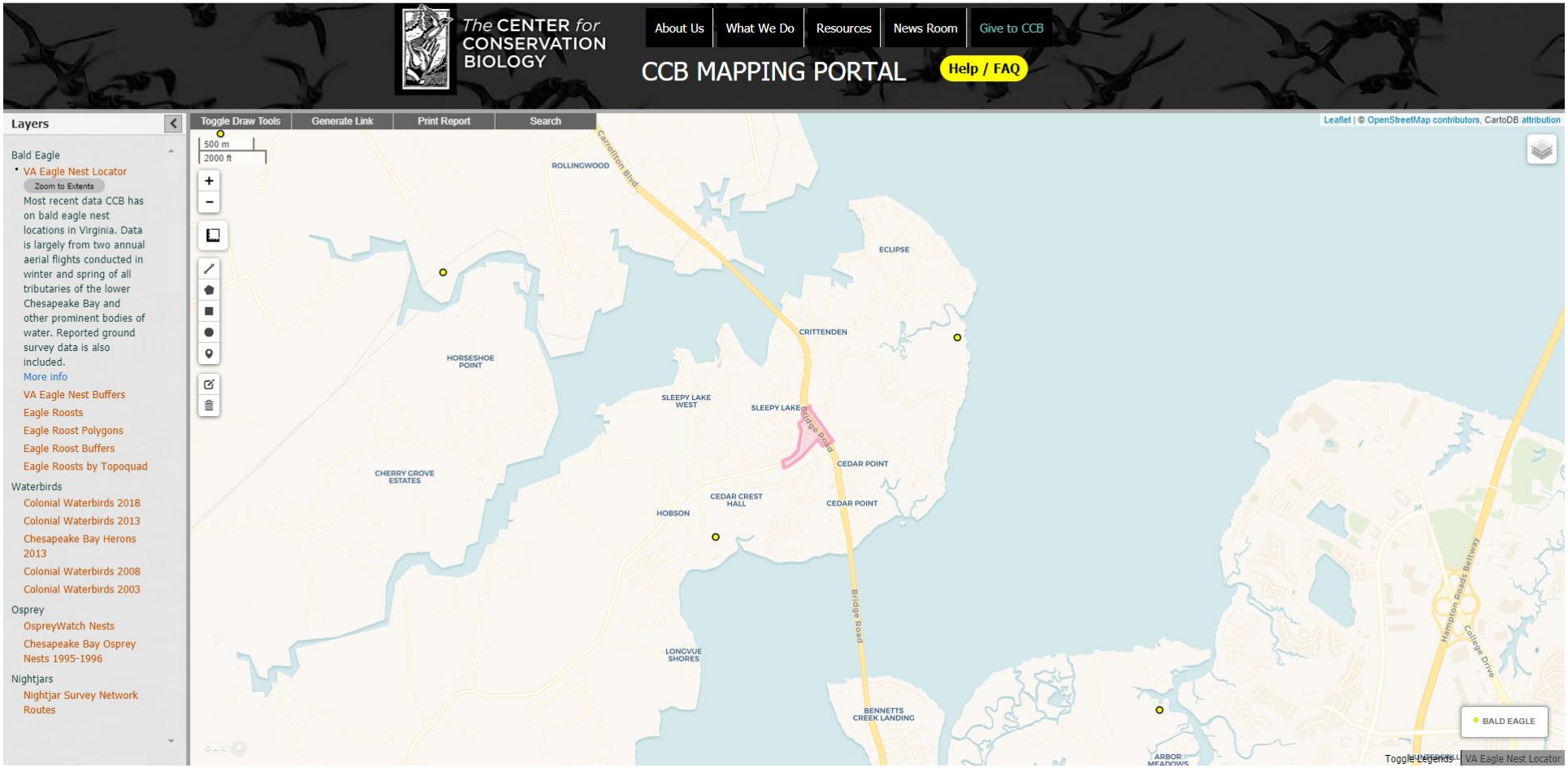
Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

USFWS National Wildlife Refuge Lands And Fish Hatcheries

Any activity proposed on lands managed by the National Wildlife Refuge system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.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Zoom to Extents
Most recent data CCB has on bald eagle nest locations in Virginia. Data is largely from two annual aerial flights conducted in winter and spring of all tributaries of the lower Chesapeake Bay and other prominent bodies of water. Reported ground survey data is also included.
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Eagle Roosts
Eagle Roost Polygons
Eagle Roost Buffers
Eagle Roosts by Topoquad
Waterbirds
Colonial Waterbirds 2018
Colonial Waterbirds 2013
Chesapeake Bay Herons 2013
Colonial Waterbirds 2008
Colonial Waterbirds 2003
Osprey
OspreyWatch Nests
Chesapeake Bay Osprey Nests 1995-1996
Nightjars
Nightjar Survey Network Routes
Toggle Draw Tools
Generate Link
Print Report
Search
500 m
2000 ft
Leaflet | © OpenStreetMap contributors, CartoDB attribution
ROLLINGWOOD
Carrollton Blvd
ECLIPSE
CRITTENDEN
HORSESHOE POINT
SLEEPY LAKE WEST
SLEEPY LAKE
Bridge Road
CEDAR POINT
CHERRY GROVE ESTATES
CEDAR CREST HALL
HOBSON
CEDAR POINT
Bridge Road
LONGVUE SHORES
BENNETTS CREEK LANDING
Hampton Roads Beltway
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ARBOR MEADOWS
BALD EAGLE
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United States Department of the Interior

FISH AND WILDLIFE SERVICE
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Phone: (804) 693-6694 Fax: (804) 693-9032
http://www.fws.gov/northeast/virginiafield/

In Reply Refer To: September 27, 2019
Consultation Code: 05E2VA00-2019-TA-5068
Event Code: 05E2VA00-2019-E-16686
Project Name: Crittenden Rd & Rte 17 Intersection

Subject: Verification letter for the 'Crittenden Rd & Rte 17 Intersection' project under the January 5, 2016, Programmatic Biological Opinion on Final 4(d) Rule for the Northern Long-eared Bat and Activities Excepted from Take Prohibitions.

Dear Molly Bertsch:

The U.S. Fish and Wildlife Service (Service) received on September 27, 2019 your effects determination for the 'Crittenden Rd & Rte 17 Intersection' (the Action) using the northern long-eared bat (*Myotis septentrionalis*) key within the Information for Planning and Consultation (IPaC) system. This IPaC key assists users in determining whether a Federal action is consistent with the activities analyzed in the Service's January 5, 2016, Programmatic Biological Opinion (PBO). The PBO addresses activities excepted from "take"[1] prohibitions applicable to the northern long-eared bat under the Endangered Species Act of 1973 (ESA) (87 Stat.884, as amended; 16 U.S.C. 1531 et seq.).

Based upon your IPaC submission, the Action is consistent with activities analyzed in the PBO. The Action may affect the northern long-eared bat; however, any take that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o). Unless the Service advises you within 30 days of the date of this letter that your IPaC-assisted determination was incorrect, this letter verifies that the PBO satisfies and concludes your responsibilities for this Action under ESA Section 7(a)(2) with respect to the northern long-eared bat.

Please report to our office any changes to the information about the Action that you submitted in IPaC, the results of any bat surveys conducted in the Action area, and any dead, injured, or sick northern long-eared bats that are found during Action implementation. If the Action is not completed within one year of the date of this letter, you must update and resubmit the information required in the IPaC key.

This IPaC-assisted determination allows you to rely on the PBO for compliance with ESA Section 7(a)(2) only for the northern long-eared bat. It **does not** apply to the following ESA-protected species that also may occur in the Action area:

- Red-cockaded Woodpecker, *Picoides borealis* (Endangered)

If the Action may affect other federally listed species besides the northern long-eared bat, a proposed species, and/or designated critical habitat, additional consultation between you and this Service office is required. If the Action may disturb bald or golden eagles, additional coordination with the Service under the Bald and Golden Eagle Protection Act is recommended.

---

[1]Take means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct [ESA Section 3(19)].

Action Description
You provided to IPaC the following name and description for the subject Action.

1. Name

Crittenden Rd & Rte 17 Intersection

2. Description

The following description was provided for the project 'Crittenden Rd & Rte 17 Intersection':

Roadway Realignment, Suffolk, Virginia

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/place/36.901136841650356N76.49692194567257W

Determination Key Result

This Federal Action may affect the northern long-eared bat in a manner consistent with the description of activities addressed by the Service's PBO dated January 5, 2016. Any taking that may occur incidental to this Action is not prohibited under the final 4(d) rule at 50 CFR §17.40(o). Therefore, the PBO satisfies your responsibilities for this Action under ESA Section 7(a)(2) relative to the northern long-eared bat.

Determination Key Description: Northern Long-eared Bat 4(d) Rule

This key was last updated in IPaC on May 15, 2017. Keys are subject to periodic revision.

This key is intended for actions that may affect the threatened northern long-eared bat.

The purpose of the key for Federal actions is to assist determinations as to whether proposed actions are consistent with those analyzed in the Service's PBO dated January 5, 2016.

Federal actions that may cause prohibited take of northern long-eared bats, affect ESA-listed species other than the northern long-eared bat, or affect any designated critical habitat, require ESA Section 7(a)(2) consultation in addition to the use of this key. Federal actions that may affect species proposed for listing or critical habitat proposed for designation may require a conference under ESA Section 7(a)(4).

Determination Key Result

This project may affect the threatened Northern long-eared bat; therefore, consultation with the Service pursuant to Section 7(a)(2) of the Endangered Species Act of 1973 (87 Stat.884, as amended; 16 U.S.C. 1531 et seq.) is required. However, based on the information you provided, this project may rely on the Service's January 5, 2016, *Programmatic Biological Opinion on Final 4(d) Rule for the Northern Long-Eared Bat and Activities Excepted from Take Prohibitions* to fulfill its Section 7(a)(2) consultation obligation.

Qualification Interview

1. Is the action authorized, funded, or being carried out by a Federal agency?

   Yes

2. Have you determined that the proposed action will have "no effect" on the northern long-eared bat? (If you are unsure select "No")

   No

3. Will your activity purposefully **Take** northern long-eared bats?

   No

4. Is the project action area located wholly outside the White-nose Syndrome Zone?

   Automatically answered
   No

5. Have you contacted the appropriate agency to determine if your project is near a known hibernaculum or maternity roost tree?

   Location information for northern long-eared bat hibernacula is generally kept in state Natural Heritage Inventory databases – the availability of this data varies state-by-state. Many states provide online access to their data, either directly by providing maps or by providing the opportunity to make a data request. In some cases, to protect those resources, access to the information may be limited. A web page with links to state Natural Heritage Inventory databases is available at www.fws.gov/midwest/endangered/mammals/nleb/nhisites.html.

   Yes

6. Will the action affect a cave or mine where northern long-eared bats are known to hibernate (i.e., hibernaculum) or could it alter the entrance or the environment (physical or other alteration) of a hibernaculum?

   No

7. Will the action involve Tree Removal?

   Yes

8. Will the action only remove hazardous trees for the protection of human life or property?

   No

9. Will the action remove trees within 0.25 miles of a known northern long-eared bat hibernaculum at any time of year?

   No

10. Will the action remove a known occupied northern long-eared bat maternity roost tree or any trees within 150 feet of a known occupied maternity roost tree from June 1 through July 31?

    No

Project Questionnaire

If the project includes forest conversion, report the appropriate acreages below. Otherwise, type '0' in questions 1-3.

1. Estimated total acres of forest conversion:

4

2. If known, estimated acres of forest conversion from April 1 to October 31

4

3. If known, estimated acres of forest conversion from June 1 to July 31

4

If the project includes timber harvest, report the appropriate acreages below. Otherwise, type '0' in questions 4-6.

4. Estimated total acres of timber harvest

0

5. If known, estimated acres of timber harvest from April 1 to October 31

0

6. If known, estimated acres of timber harvest from June 1 to July 31

0

If the project includes prescribed fire, report the appropriate acreages below. Otherwise, type '0' in questions 7-9.

7. Estimated total acres of prescribed fire

0

8. If known, estimated acres of prescribed fire from April 1 to October 31

0

9. If known, estimated acres of prescribed fire from June 1 to July 31

0

If the project includes new wind turbines, report the megawatts of wind capacity below. Otherwise, type '0' in question 10.

10. What is the estimated wind capacity (in megawatts) of the new turbine(s)?
0

United States Department of the Interior

FISH AND WILDLIFE SERVICE

Virginia Field Office
6669 Short Lane
Gloucester, VA 23061

Date: 9/27/19

Self-Certification Letter

Project Name: Crittenden Road and Route 17 Intersection Realignment (UPC 111089)

Dear Applicant:

Thank you for using the U.S. Fish and Wildlife Service (Service) Virginia Ecological Services online project review process. By printing this letter in conjunction with your project review package, you are certifying that you have completed the online project review process for the project named above in accordance with all instructions provided, using the best available information to reach your conclusions. This letter, and the enclosed project review package, completes the review of your project in accordance with the Endangered Species Act of 1973 (16 U.S.C. 1531-1544, 87 Stat. 884), as amended (ESA). This letter also provides information for your project review under the National Environmental Policy Act of 1969 (P.L. 91-190, 42 U.S.C. 4321-4347, 83 Stat. 852), as amended. A copy of this letter and the project review package must be submitted to this office for this certification to be valid. This letter and the project review package will be maintained in our records.

The species conclusions table in the enclosed project review package summarizes your ESA conclusions. These conclusions resulted in:

- "no effect" determinations for proposed/listed species and/or proposed/designated critical habitat; and/or
- Action may affect the northern long-eared bat; however, any take that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR § 17.40(o) [as determined through the Information, Planning, and Consultation System (IPaC) northern long-eared bat assisted determination key]; and/or
- "may affect, not likely to adversely affect" determinations for proposed/listed species and/or proposed/designated critical habitat.

We certify that use of the online project review process in strict accordance with the instructions provided as documented in the enclosed project review package results in reaching the appropriate determinations. Therefore, we concur with the "no effect" or "may affect, not likely to adversely affect" determinations for proposed and listed species and proposed and designated critical habitat. Additional coordination with this office is not needed.

Candidate species are not legally protected pursuant to the ESA. However, the Service encourages consideration of these species by avoiding adverse impacts to them. Please contact this office for additional coordination if your project action area contains candidate species.

Should project plans change or if additional information on the distribution of proposed or listed species, proposed or designated critical habitat becomes available, this determination may be reconsidered. This certification letter is valid for 1 year.

Information about the online project review process including instructions and use, species information, and other information regarding project reviews within Virginia is available at our website http://www.fws.gov/northeast/virginiafield/endspecies/project_reviews.html. If you have any questions, please contact Troy Andersen of this office at (804) 824-2428.

Sincerely,

Cindy Schulz
Field Supervisor
Virginia Ecological Services

Enclosures - project review package

VaFWIS Search Report Compiled on 9/27/2019, 9:39:52 AM

Help

Known or likely to occur within a **2 mile radius around point 36.9016400 -76.4967796** in **093 Isle of Wight County, 800 Suffolk City, VA**

View Map of Site Location

625 Known or Likely Species ordered by Status Concern for Conservation (displaying first 37) (37 species with Status* or Tier I**)

BOVA Code	Status*	Tier**	Common Name	Scientific Name	Confirmed	Database(s)
030074	FESE	Ia	Turtle, Kemp's ridley sea	Lepidochelys kempii		BOVA
040228	FESE	Ia	Woodpecker, red-cockaded	Picoides borealis		BOVA
010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes	BOVA,SppObs,HU6
030071	FTST	Ia	Turtle, loggerhead sea	Caretta caretta	Yes	BOVA,SppObs
040144	FTST	Ia	Knot, red	Calidris canutus rufa		BOVA,HU6
050022	FTST	Ia	Bat, northern long-eared	Myotis septentrionalis		BOVA
040120	FTST	IIa	Plover, piping	Charadrius melodus		BOVA
030064	SE	Ia	Turtle, eastern chicken	Deirochelys reticularia reticularia		BOVA,HU6
040110	FPSE	Ia	Rail, eastern black	Laterallus jamaicensis jamaicensis	Potential	BOVA,Habitat,HU6
050020	SE	Ia	Bat, little brown	Myotis lucifugus		BOVA
050034	SE	Ia	Bat, Rafinesque's eastern big-eared	Corynorhinus rafinesquii macrotis		BOVA,HU6
050027	SE	Ia	Bat, tri-colored	Perimyotis subflavus		BOVA
020052	SE	IIa	Salamander, eastern tiger	Ambystoma tigrinum		BOVA,HU6
030013	SE	IIa	Rattlesnake, canebrake	Crotalus horridus	Potential	BOVA,Habitat,HU6
040096	ST	Ia	Falcon, peregrine	Falco peregrinus	Yes	BOVA,SppObs,HU6
040293	ST	Ia	Shrike, loggerhead	Lanius ludovicianus		BOVA
040379	ST	Ia	Sparrow, Henslow's	Ammodramus henslowii	Potential	Habitat,HU6

020044	ST	IIa	Salamander, Mabee's	Ambystoma mabeei	Potential	BOVA,Habitat,HU6
020002	ST	IIa	Treefrog, barking	Hyla gratiosa		BOVA,HU6
040292	ST		Shrike, migrant loggerhead	Lanius ludovicianus migrans		BOVA
030067	CC	IIa	Terrapin, northern diamond-backed	Malaclemys terrapin terrapin	Potential	BOVA,Habitat,HU6
030063	CC	IIIa	Turtle, spotted	Clemmys guttata		BOVA,HU6
040040		Ia	Ibis, glossy	Plegadis falcinellus		BOVA,HU6
040422		Ic	Warbler, Wayne's	Setophaga virens waynei		HU6
070131		Ic	Isopod, Phreatic	Caecidotea phreatica		BOVA,HU6
100176		Ic	Skipper, Arogos	Atrytone arogos arogos		BOVA
020063		IIa	Toad, oak	Anaxyrus quercicus	Yes	BOVA,Habitat,SppObs,HU6
040052		IIa	Duck, American black	Anas rubripes		BOVA,HU6
040033		IIa	Egret, snowy	Egretta thula		BOVA
040029		IIa	Heron, little blue	Egretta caerulea caerulea		BOVA
040036		IIa	Night-heron, yellow-crowned	Nyctanassa violacea violacea		BOVA
040181		IIa	Tern, common	Sterna hirundo	Potential	BOVA,BBA,HU6
040320		IIa	Warbler, cerulean	Setophaga cerulea		BOVA,HU6
040140		IIa	Woodcock, American	Scolopax minor		BOVA,HU6
040203		IIb	Cuckoo, black-billed	Coccyzus erythropthalmus		BOVA
040105		IIb	Rail, king	Rallus elegans	Potential	BOVA,Habitat,HU6
040304		IIc	Warbler, Swainson's	Limnothlypis swainsonii		BOVA,HU6

To view **All 625 species** View 625

*FE=Federal Endangered; FT=Federal Threatened; SE=State Endangered; ST=State Threatened; FP=Federal Proposed; FC=Federal Candidate; CC=Collection Concern

**I=VA Wildlife Action Plan - Tier I - Critical Conservation Need; II=VA Wildlife Action Plan - Tier II - Very High Conservation Need; III=VA Wildlife Action Plan - Tier III - High Conservation Need;
IV=VA Wildlife Action Plan - Tier IV - Moderate Conservation Need
Virginia Widlife Action Plan Conservation Opportunity Ranking:
a - On the ground management strategies/actions exist and can be feasibly implemented.;
b - On the ground actions or research needs have been identified but cannot feasibly be implemented at this time.;
c - No on the ground actions or research needs have been identified or all identified conservation opportunities have been exhausted.

View Map of All Query Results from All Observation Tables

Species Observations (30 records - displaying first 20 , 11 Observations with Threatened or Endangered species)

View Map of All Query Results Species Observations

obsID	class	Date Observed	Observer	N Species			View Map
				Different Species	Highest TE*	Highest Tier**	
63041	SppObs	Jun 11 1997	USFWS	1	FESE	I	Yes
62964	SppObs	Apr 6 1997	USFWS	1	FESE	I	Yes
607701	SppObs	Oct 11 2008	Lisa; Wright	1	FTST	I	Yes
607950	SppObs	Oct 10 2008	Christina; Trapani	1	FTST	I	Yes
608486	SppObs	Jun 22 2010	Bryan; Watts	1	ST	I	Yes
330010	SppObs	Jun 4 2009	Center for Conservation Biology, College of William and Mary - VCU	1	ST	I	Yes
305438	SppObs	May 1 2004	BRYAN D. WATTS, THE CENTER FOR CONSERVATION BIOLOGY	1	ST	I	Yes
305425	SppObs	May 1 2003	BRYAN D. WATTS, THE CENTER FOR CONSERVATION BIOLOGY	1	ST	I	Yes
305061	SppObs	May 1 2003	brian watts	1	ST	I	Yes
305407	SppObs	May 1 2002	BRYAN D. WATTS, THE CENTER FOR CONSERVATION BIOLOGY	1	ST	I	Yes
305389	SppObs	May 1 2001	BRYAN D. WATTS, THE CENTER FOR CONSERVATION BIOLOGY	1	ST	I	Yes
29912	SppObs	Jan 1 1900	Mitchell, J. C.	1		II	Yes
503435	CWB	May 17 2013	Watts, B. D.	1			Yes
503224	CWB	May 17 2013	Watts, B. D.	1			Yes
503223	CWB	May 17 2013	Watts, B. D.	1			Yes
503226	CWB	May 17 2013	Watts, B. D.	2			Yes
20117332	BAEANests	Apr 18 2011	Watts and Byrd	1			Yes
20117281	BAEANests	Mar 2 2011	Watts and Byrd	1			Yes
20107192	BAEANests	Apr 16 2010	Watts and Byrd	1			Yes

20106941	BAEANests	Feb 27 2010	Watts and Byrd	1			Yes

Displayed 20 Species Observations

Selected 30 Observations View all 30 Species Observations

Public Holdings:

N/A

USGS National 6th Order Watersheds Summary of Wildlife Action Plan Tier I, II, III, and IV Species:

HU6 Code	USGS 6th Order Hydrologic Unit	Different Species	Highest TE	Highest Tier
JL42	Chuckatuck Creek	88	FTSE	I
JL43	James River-Cooper Creek	100	FESE	I
JL49	Nansemond River-Bennett Creek	93	FESE	I

Compiled on 9/27/2019, 9:39:52 AM I994639.0 report=Options searchType= R dist= 3218 poi= 36.9016400 -76.4967796

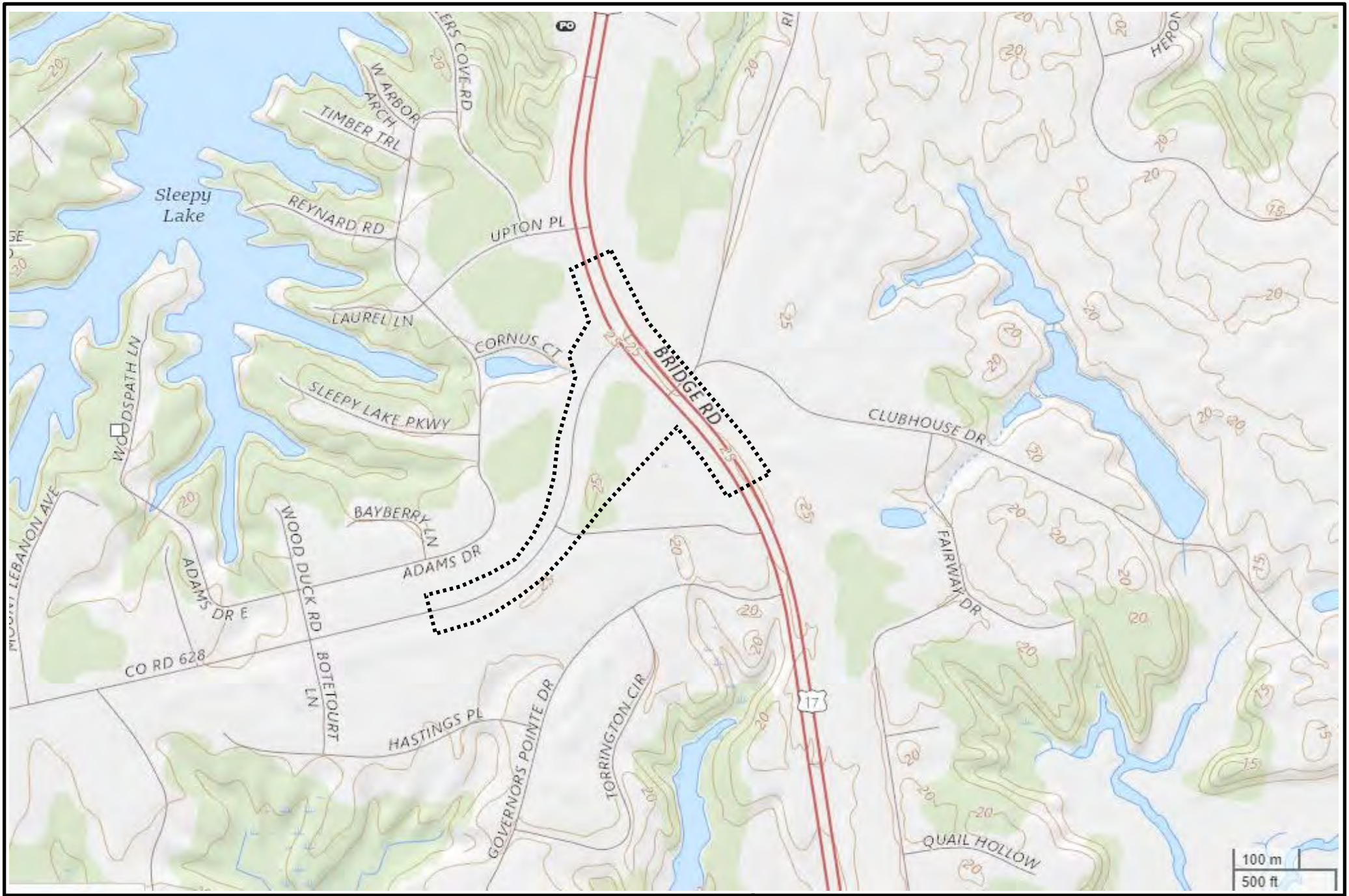
PixelSize=64; Anadromous=0.041618; BBA=0.070328; BECAR=0.027073; Bats=0.025083; Buffer=0.100508; County=0.107695; HU6=0.140801; Impediments=0.024723; Init=0.160346; PublicLands=0.034805; Quad=0.075517; SppObs=0.350378; TEWaters=0.037332; TierReaches=0.060258; TierTerrestrial=0.229178; Total=1.752958; Tracking_BOVA=0.218311; Trout=0.030435; huva=0.08295

APPENDIX E: Natural Resources Data

USGS Topographic Mapping

FEMA National Flood Layer FIRMette Mapping

U.S. COE Preliminary Jurisdictional Determination



MAP ENVIRONMENTAL INC.
Celebrating 20 Years

Legend

Project Area

1. Project boundaries represented on this figure are approximate
2. The included image was provided by the USGS national mapping database

Location: Suffolk, Virginia

Project: Crittenden Rd & Rt 17 Intersection Realignment

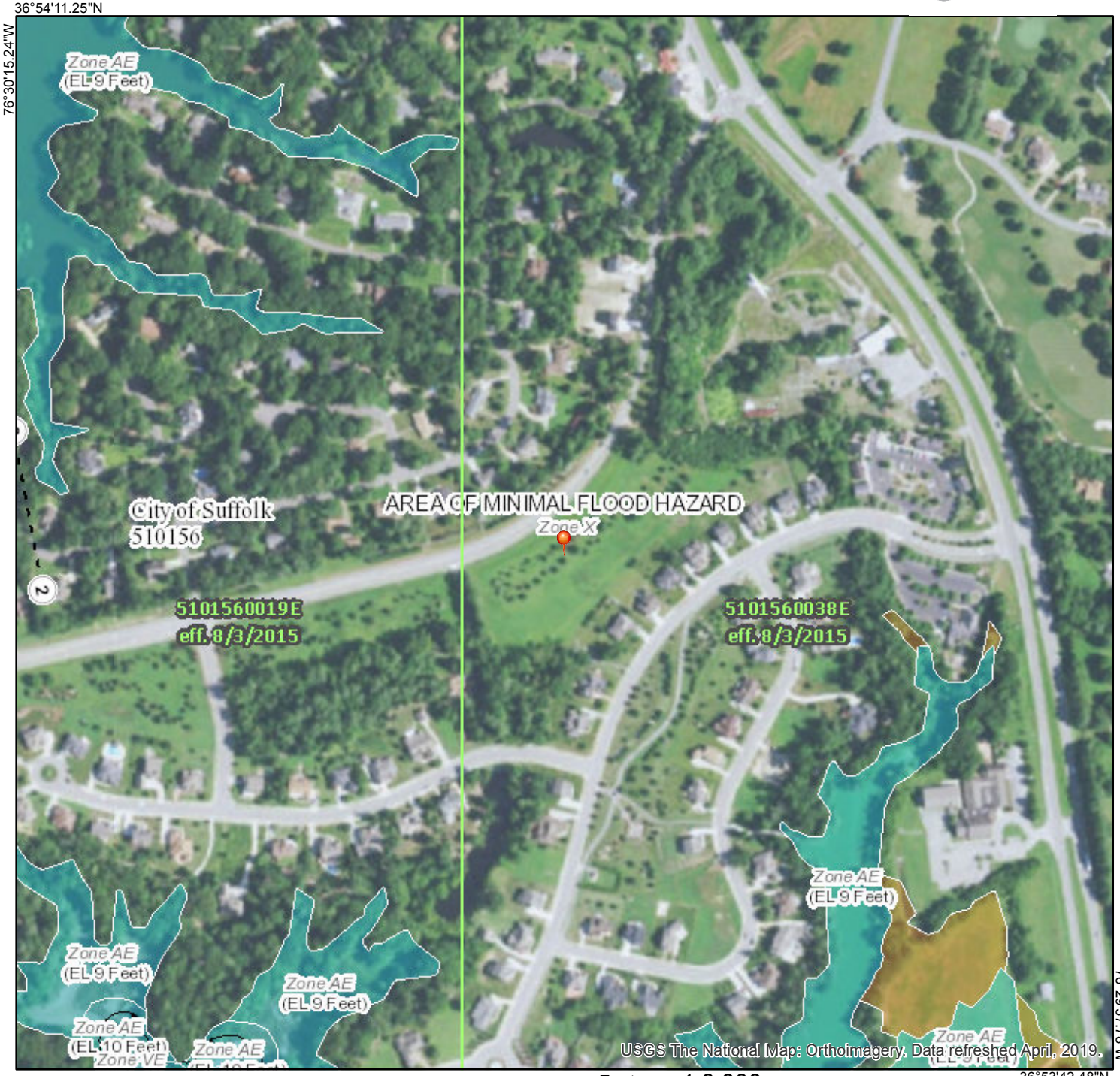
Date: July 10, 2019

USGS Topographic Map

Figure 2

National Flood Hazard Layer FIRMette

FEMA



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

1:6,000

Legend

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

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

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

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

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

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

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

N

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 7/10/2019 at 4:19:00 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NORFOLK DISTRICT
FORT NORFOLK
803 FRONT STREET
NORFOLK VA 23510-1011

September 5, 2019

PRELIMINARY JURISDICTIONAL DETERMINATION

Eastern Virginia Regulatory Section
NAO-2018-00123 (Chuckatuck Creek)

City of Suffolk
c/o: Map Environmental INC. Attn: Andrew Pocta
116 Landmark Square, Suite 101
Virginia Beach, VA 23452

Dear Mam/Sir:

This letter is in regard to your request for a preliminary jurisdictional determination for waters of the U.S. (including wetlands) within the limits of the project known as Crittenden Road Intersection Improvements, located at the intersection of Crittenden Road and U.S. 17 in Suffolk, Virginia.

The map entitled "Figure 2, Preliminary Wetlands Delineation", by MAP Environmental dated as revised on June 12, 2019 (*copy* enclosed) provides the location(s) of waters and/or wetlands on the property listed above. The basis for this delineation includes application of the Corps' 1987 Wetland Delineation Manual and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region* and the positive indicators of wetland hydrology, hydric soils, and hydrophytic vegetation. This letter is not confirming the Cowardin classifications of these aquatic resources.

The Norfolk District has relied on the information and data provided by the applicant or agent. If such information and data subsequently prove to be materially false or materially incomplete, this verification may be suspended or revoked, in whole or in part, and/or the Government may institute appropriate legal proceedings.

Discharges of dredged or fill material, including those associated with mechanized landclearing, into waters and/or wetlands on this site may require a Department of the Army permit and authorization by state and local authorities including a Virginia Water Protection Permit from the Virginia Department of Environmental Quality (DEQ), a permit from the Virginia Marine Resources Commission (VMRC) and/or a permit from your local wetlands board. This letter is a confirmation of the Corps preliminary jurisdiction for the waters and/or wetlands on the subject property and does not authorize any work in these areas. Please obtain all required permits before starting work in the delineated waters/wetland areas.

This is a preliminary jurisdictional determination and is therefore not a legally binding determination regarding whether Corps jurisdiction applies to the waters or wetlands in question. Accordingly, you may either consent to jurisdiction as set out in this preliminary jurisdictional determination and the attachments hereto if you agree with the determination, or you may request and obtain an approved jurisdictional determination. This preliminary jurisdictional determination and associated wetland delineation map may be submitted with a permit application.

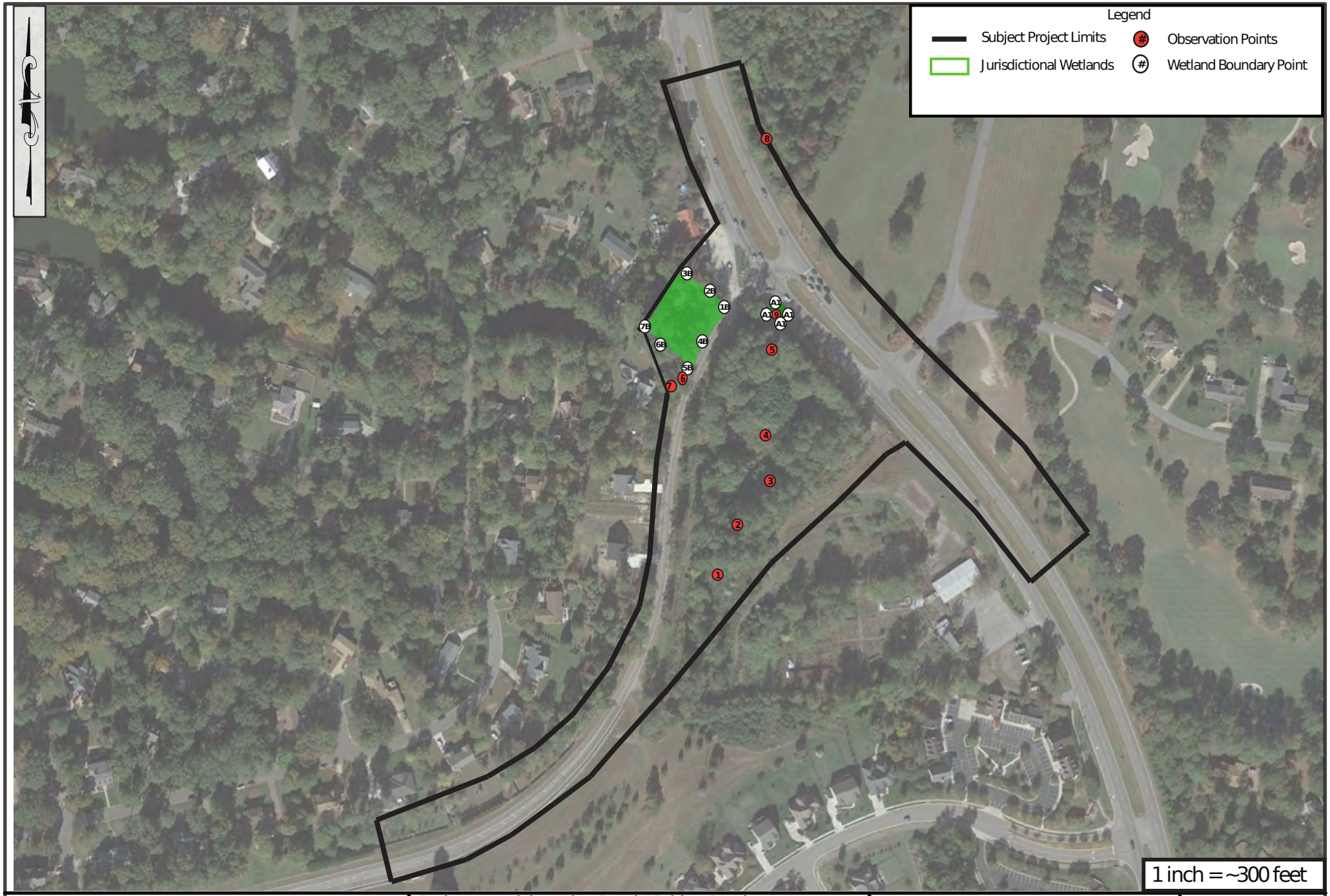
Enclosed is a copy of the "Preliminary Jurisdictional Determination Form". Please review the document, sign, and return one copy to me either via email (brian.c.denson@usace.army.mil) or via standard mail to US Army Corps of Engineers, Regulatory Office, and ATTN: Brian Denson, 803 Front Street Norfolk, Virginia 23510 within 30 days of receipt and keep one for your records. This delineation of waters and/or wetlands can be relied upon for no more than five years from the date of this letter. New information may warrant revision.

If you have any questions, please contact me, either via telephone at (757) 201-7792 or via email at brian.c.denson@usace.army.mil.

Sincerely,

Brian Denson
Project Manager
Eastern Virginia Regulatory Section

Enclosure(s): Referenced figures, Supplemental Information, Preliminary Jurisdictional Determination Form



MAP Environmental Inc.
116 Landmark Square Suite 101 Virginia Beach, Virginia 23452
office (757)498-6131 fax(757)498-6132
www.mapenvironmental.com

Project: Crittenden Road / Bridge Road

Location: Suffolk, Virginia

Date: June 12, 2019 (Revised)

Notes

1. The image provided on the figure was provided by Google Earth.
2. The location of jurisdictional wetlands is approximate and subject to a more accurate location survey by a licensed surveyor.
3. The jurisdictional wetlands are subject to verification and approval by the Norfolk District Corps of Engineers.

Figure 2

Preliminary Wetlands Delineation

PRELIMINARY JURISDICTIONAL DETERMINATION FORM

BACKGROUND INFORMATION:

A. REPORT COMPLETION DATE FOR PRELIMINARY JURISDICTIONAL DETERMINATION (JD):
Thursday, September 5, 2019

B. NAME AND ADDRESS OF PERSON REQUESTING PRELIMINARY JD:
MAP Environmental Inc. (applicant to be transferred to City of Suffolk PM upon issuance of Pre-JD)
116 Landmark Square, Suite 101
Virginia Beach, VA 23452
Phone: (757)498-6131 / Email: apocta@mapenvironmental.com

C. DISTRICT OFFICE: Norfolk District (CENAO-REG)

FILE NAME: Crittenden Road Intersection JD

FILE NUMBER: NAO-2018-00123

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:
(USE THE ATTACHED TABLE TO DOCUMENT MULTIPLE WATERBODIES AT DIFFERENT SITES)

State: **VIRGINIA** County/parish/borough: City: Suffolk

Center coordinates of site (lat/long in degree decimal format):

Latitude: 36.901374 ° N Longitude: -76.497357 ° W

Universal Transverse Mercator: WGS 84

Name of nearest waterbody: Chuckatuck Creek

Identify (estimate) amount of waters in the review area:

Non-wetland waters: linear feet; width (ft); and/or acres.

Cowardin Class:

Stream Flow:

Wetlands: 0.30 acres

Cowardin Class:

Name of any water bodies on the site that have been identified as Section 10 waters:

Tidal:

Non-Tidal:

E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):
☒ Office (Desk) Determination. Date: September 5, 2019
☐ Field Determination. Date(s):

1. The Corps of Engineers believes that there may be jurisdictional waters of the United States on the subject site, and the permit applicant or other affected party who requested this preliminary JD is hereby advised of his or her option to request and obtain an approved jurisdictional determination (JD) for that site. Nevertheless, the permit applicant or other person who requested this preliminary JD has declined to exercise the option to obtain an approved JD in this instance and at this time.

2. In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an approved JD for the activity, the permit applicant is hereby made aware of the following: (1) the permit applicant has elected to seek a permit authorization based on a preliminary JD, which does not make an official determination of jurisdictional waters; (2) that the applicant has the option to request an approved JD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an approved JD could possibly result in less compensatory mitigation being required or different special conditions; (3) that the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) that the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) that undertaking any activity in reliance upon the subject permit authorization without requesting an approved JD constitutes the applicant's acceptance of the use of the preliminary JD, but that either form of JD will be processed as soon as is practicable; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a preliminary JD constitutes agreement that all wetlands and other water bodies on the site affected in any way by that activity are jurisdictional waters of the United States, and precludes any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an approved JD or a preliminary JD, that JD will be processed as soon as is practicable. Further, an approved JD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331, and that in any administrative appeal, jurisdictional issues can be raised (see 33 C.F.R. 331.5(a)(2)). If, during that administrative appeal, it becomes necessary to make an official determination whether CWA jurisdiction exists over a site, or to provide an official delineation of jurisdictional waters on the site, the Corps will provide an approved JD to accomplish that result, as soon as is practicable.

3. This preliminary JD finds that there *"may be"* waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

SUPPORTING DATA:

Data reviewed for preliminary JD (check all that apply) - checked items should be included in case file and, where checked and requested, appropriately reference sources below.

☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant:

☒ Data sheets prepared/submitted by or on behalf of the applicant/consultant.

☒ Office concurs with data sheets/delineation report.

☐ Office does not concur with data sheets/delineation report.

☐ Data sheets prepared by the Corps:

☐ Corps navigable waters' study:

☒ U.S. Geological Survey Hydrologic Atlas:

☐ USGS NHD data.

☒ USGS 8 and 12 digit HUC maps.

☒ U.S. Geological Survey map(s). Cite scale & quad name:

☒ USDA Natural Resources Conservation Service Soil Survey.

Citation:

☒ National wetlands inventory map(s). Cite name:

☐ State/Local wetland inventory map(s):

☒ FEMA/FIRM maps:

☒ 100-year Floodplain Elevation: (National Geodetic Vertical Datum of 1929)

☒ Photographs: ☒ Aerial (Name & Date): Google Earth, Bing, VGIN

or ☒ Other (Name & Date): LIDAR

☐ Previous determination(s):

File no. and date of response letter:

☐ Other information (please specify):

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.

DENSON.BRIAN.C.1168799671

Digitally signed by DENSON.BRIAN.C.1168799671
Date: 2019.09.05 11:18:40 -04'00'

Signature
Regulatory Project Manager
(REQUIRED)

Signature of person requesting Preliminary JD
(REQUIRED, unless obtaining the signature is impracticable)

2019-09-05

Date

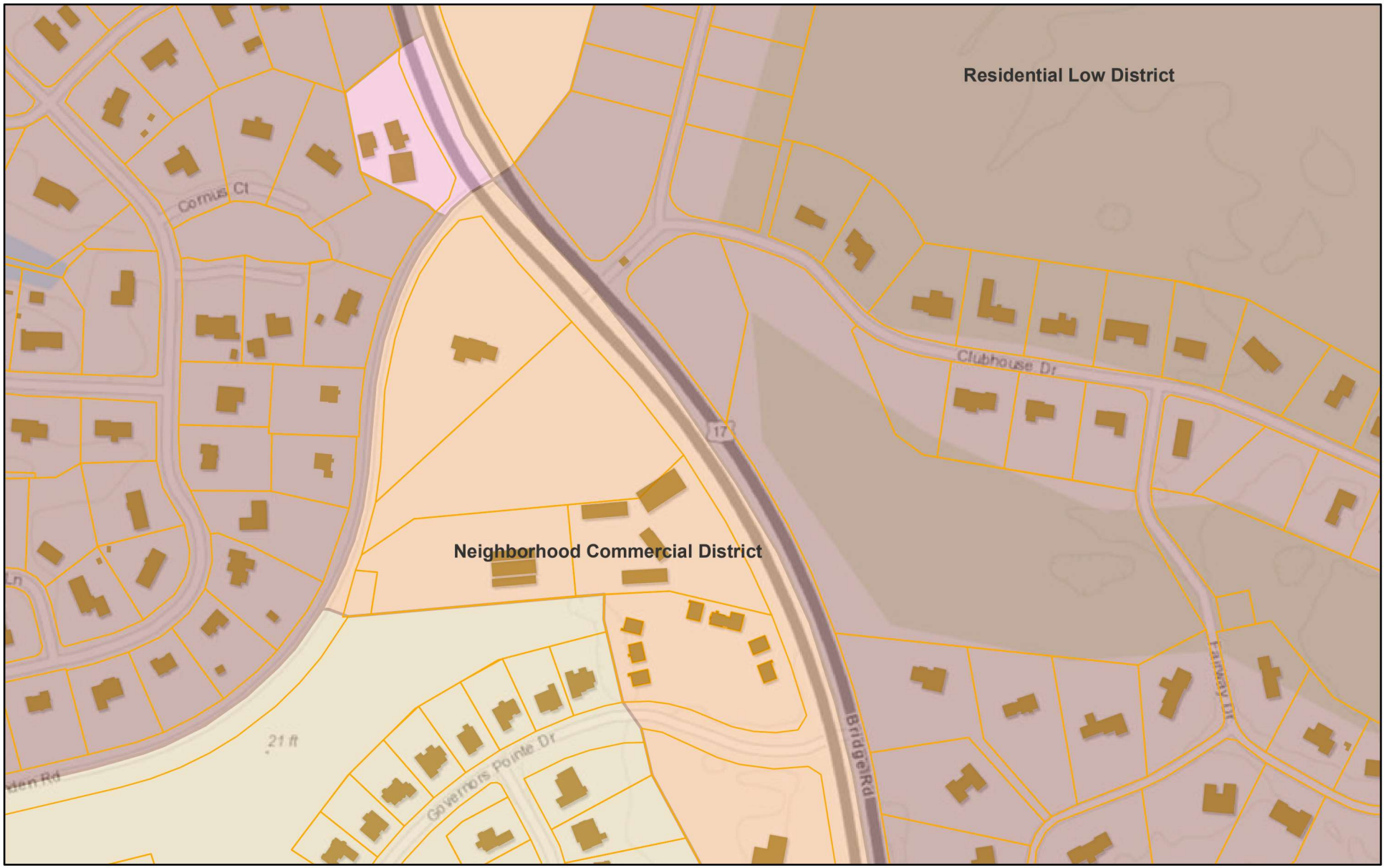
Date

APPENDIX F: Agricultural/Open Space and Farmland Data

City of Suffolk GIS Mapping

NRCS Soil Survey

City of Suffolk GIS Mapping- Zoning



August 23, 2019

Planning_7784

Parcels

Planning_5199

General Commercial District

Neighborhood Commercial District

Residential Low District

Rural Resident District

1:4,514

0 0.03 0.06 0.12 mi

0 0.05 0.1 0.2 km

VITA, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA

Soil Map—City of Suffolk, Virginia
(Crittenden Rd & Rte 17)

Map Scale: 1:3,490 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 50 100 200 300

Feet: 0 150 300 600 900

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 1:15,800.

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:
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 Suffolk, Virginia
Survey Area Data: Version 12, Aug 29, 2018

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

Date(s) aerial images were photographed: Dec 31, 2009—Mar 8, 2017

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

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
6	Dragston fine sandy loam	10.4	76.4%
16A	Nansemond fine sandy loam, 0 to 2 percent slopes	1.6	11.9%
29	Weston fine sandy loam	1.6	11.8%
Totals for Area of Interest		**13.6**	**100.0%**

APPENDIX G: Air Quality Data

Air Quality Assessment

AIR QUALITY ANALYSIS TECHNICAL REPORT

Crittenden Road and Route 17 Intersection Realignment

Prepared in Support of Categorical Exclusion

UPC Number: 111089

September 2019

EXECUTIVE SUMMARY

The City of Suffolk is proposing to realign Crittenden Road approximately 400 feet to the south to intersect with Bridge Road at Clubhouse Drive to create a four-legged signalized intersection. The National Environmental Policy Act (NEPA) requires consideration of whether the proposed action will have an adverse effect on air quality in the study area. This project meets the criteria for a Categorical Exclusion (CE) pursuant to 40 CFR 1508.4 and 23 CFR 771.117[1].

The proposed improvements were assessed for potential air quality impacts and conformity consistent with all applicable air quality regulations and requirements. All models, methods and assumptions applied in modeling and analyses were made consistent with those provided or specified in the VDOT Resource Document and associated online data repository[2]. The assessment indicates that the project would meet all applicable air quality requirements of NEPA, and, as applicable, federal and state transportation conformity regulations. As such, the project will not cause or contribute to a new violation, increase the frequency or severity of any violation, or delay timely attainment of national ambient air quality standards (NAAQS) established by the US Environmental Protection Agency (US EPA).

Additional detail on the analyses conducted for this project is provided below.

Carbon Monoxide: As the project is located in a region that is attainment of the NAAQS for CO, only NEPA applies; EPA project-level ("hot-spot") transportation conformity requirements do not apply. Analyses for potential impacts for CO were conducted for the proposed intersection that would be impacted by the project. Worst-case modeling assumptions, which were made consistent with the VDOT Resource Document as noted above, included:

- The studied intersection for the Build Alternative was summarized based on peak AM and PM volumes and LOS. The intersection was then screened for modeling using the 2016 FHWA-VDOT "*Programmatic Agreement (PA) for Project-Level Air Quality Analyses for Carbon Monoxide*" (hereinafter "2016 Agreement"), which references screening criteria (primarily Design-Year average daily traffic [ADT] and intersection skew angle) that were previously established based on worst-case modeling for typical intersections. The intersection is non-skewed and did meet all the criteria found for in the 2016 Agreement for non-skewed intersections, so it can be safely concluded that the intersection would meet the NAAQS.

Overall, the results indicate that, even with assuming worst-case traffic volumes and other modeling inputs, ambient levels of CO in the vicinity of the project are expected to decline significantly over time and to remain below both the one-hour and the eight-hour NAAQS. In general, emissions and ambient concentrations drop significantly over time (through the opening and design years) due to continued fleet turnover to vehicles constructed to more stringent emission standards. The project therefore is not expected to cause or contribute to a violation of the CO standards.

[1] FHWA Concurrence Letter of NEPA Categorical Exclusion, dated 05/16/19.

[2]The Resource Document was created by VDOT to facilitate and streamline the preparation of project-level air quality analyses. It is intended as a resource for modelers to help ensure that not only regulatory requirements and guidance, as appropriate, are met in all analyses but also high-quality standards for modeling and documentation are consistently achieved. In in comprehensive fashion, it addresses the models, methods, and assumptions (including data and data sources) needed for the preparation of air quality analyses for transportation projects by, or on behalf of, the Department. It includes an associated online data repository to support project-level modeling. It was subjected to inter-agency consultation with FHWA and other agencies before being finalized in 2016 and updated in December 2018.

Greenhouse Gases: With the recent withdrawal of federal guidance addressing greenhouse gas analyses and climate change[3], the Department protocol (VDOT Resource Document, Section 4.7) for greenhouse gas (GHG) analyses was reviewed for applicability to this project. Based on the Department protocol, a GHG analysis is not warranted for this project as it involves an CE and not an Environmental Impact Statement.

Mobile Source Air Toxics: Federal Highway Administration (FHWA) guidance (2016)[4] specifies MSATs to include acrolein, benzene, 1,3 butadiene, diesel particulate matter, formaldehyde, naphthalene, and polycyclic organic matter. As this project qualifies for a CE under 23 CFR 771.117, and therefore under FHWA guidance may be categorized as a Tier 1 project for which no meaningful MSAT effects would be expected, neither a qualitative nor a quantitative analysis is needed. In addition, this project has been determined to generate minimal air quality impacts for Clean Air Act criteria pollutants and has not been linked with any special MSAT concerns. As such, this project will not result in changes in traffic volumes, vehicle mix, basic project location, or any other factor that would cause a meaningful increase in MSAT impacts of the project from that of the no-build alternative.

Indirect Effects and Cumulative Impacts: A qualitative assessment of the potential for indirect effects and cumulative impacts attributable to this project concluded that the potential effects or impacts are not expected to be significant given available information from pollutant-specific analyses (CO, MSATs, and ozone) and the regional conformity analysis. The CO and MSAT qualitative assessments and the regional conformity analysis conducted for this project are considered indirect effects analyses because they address air quality impacts attributable to the project that occur at a later time in the future. Those assessments demonstrate that in the future: (1) air quality impacts from CO would not cause or contribute to violations of the CO NAAQS; (2) MSAT emissions from the affected network would be significantly lower than they are today; and 3) the mobile source emissions budgets established for the region for purposes of meeting the ozone NAAQS will not be exceeded.

Regarding the potential for cumulative impacts, EPA's air quality designations for the region reflect, in part, the accumulated mobile source emissions from past and present actions. Since EPA has designated the region to be in attainment for all of the NAAQS, the potential for cumulative impacts associated with the project is not expected to be significant. With the recent court decision that reinstates conformity requirements in the project region, the regional conformity analysis conducted by VDOT[5] represents a cumulative impact assessment for purposes of regional air quality. The conformity analysis quantifies the amount of mobile source emissions for which the area was designated non-attainment that will result from the implementation of all reasonably foreseeable regionally significant transportation projects in the region (i.e. those proposed for construction funding over the life of the region's transportation plan. The most recent conformity analysis was completed in July 2018, with FHWA and FTA issuing a conformity finding on October 29, 2018[6] for which the project was included. The analysis demonstrated that the incremental impact of the proposed project on mobile source emissions, when added to the emissions from other past, present, and reasonably foreseeable future actions, is in conformance with the State Implementation (Air Quality) Plan (SIP) and will not cause or contribute to a new violation, increase the frequency or severity of any violation, or delay timely attainment of the NAAQS established by EPA.

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[3] See: https://www.federalregister.gov/documents/2017/04/05/2017-06770/withdrawal-of-final-guidance-for-federal-departments-and-agencies-on-consideration-of-greenhouse-gas

[4] FHWA, "*INFORMATION: Updated Interim Guidance on Mobile Source Air Toxic Analysis in NEPA Documents*", October 18, 2016. See: http://www.fhwa.dot.gov/environment/air_quality/air_toxics/

[5] https://www.hrtpo.org/uploads/docs/080118%2008%20-%20Enclosure%20RCA%20HR%202040%20LRTP%20%26%20FY%2018-21%20TIP%20-%20Draft%20Report%20%26%20Appendices.pdf

[6] USDOT: "Joint FTA/FHWA Conformity Finding for the 1997 Ozone Standard; Hampton Roads; Virginia", October 29, 2018.

Construction and Mitigation: Emissions may be produced in the construction of this project from heavy equipment and vehicle travel to and from the site, as well as from fugitive sources. Construction emissions are short term or temporary in nature. To mitigate these emissions, all construction activities are to be performed in accordance with VDOT Road and Bridge Specifications[7].

The Virginia Department of Environmental Quality (VDEQ) provides general comments for projects by jurisdiction. Their comments in part address mitigation"*…all reasonable precautions should be taken to limit the emissions of VOC and NOx. In addition, the following VDEQ air pollution regulations must be adhered to during the construction of this project: 9 VAC 5-130, Open Burning restrictions[8]; 9 VAC 5-45, Article 7, Cutback Asphalt restrictions[9]; and 9 VAC 5-50, Article 1, Fugitive Dust precautions[10]*."

Project Status in the Regional Transportation Plan and Program The study area is located in the City of Suffolk. At the time of preparation of this technical report, the United States Environmental Protection Agency's (EPA) Green Book shows the City of Suffolk to be designated as an attainment area for all criteria pollutants. Notwithstanding that listing in the EPA Green Book, federal conformity requirements, including specifically 40 CFR 93.114[11] and 40 CFR 93.115[9], apply for the project as the area in which it is located is one affected by a recent court decision[12] that reinstates conformity requirements nationwide associated with the 1997 ozone NAAQS that had previously been eliminated with the revocation by EPA of that NAAQS in 2015.

After the Court issued its ruling in February 2018, EPA filed a petition for rehearing on various issues, both as to the merits of the Court's ruling and the remedy imposed by the Court. On September 14, 2018, the Court denied EPA's request for rehearing on the merits, but stayed its vacatur of the transportation conformity aspects of its ruling until February 16, 2019. In essence, the Court provided EPA with one year from the date of its original decision to implement its ruling, and that year expires on February 16, 2019. On October 1st FHWA released *Updated Interim Guidance on Conformity Requirements for the 1997 Ozone NAAQS[13]* which states in part," All planning and project development actions (including NEPA approvals) in "orphan" areas taken prior to this date may proceed and are not subject to conformity requirements for the 1997 ozone NAAQS." Conformity determinations for the 1997 ozone NAAQS will be required on applicable plan, TIP and project actions after February 15, 2019.

For transparency, the project is currently included in the Hampton Roads Transportation Planning Organization (HRTPO) FY 2018 – 2021 Transportation Improvement Program (UPC # 111089) and the HRTPO 2040 Long-Range Transportation Plan, which received a joint FTA/FHWA conformity finding for the 1997 ozone standard, dated October 29, 2018[14].

[7] See: http://www.virginiadot.org/business/const/spec-default.asp

[8] See: http://law.lis.virginia.gov/admincode/title9/agency5/chapter130/

[9] See: http://leg1.state.va.us/cgi-bin/legp504.exe?000+reg+9VAC5-45-760

[10] See: http://leg1.state.va.us/cgi-bin/legp504.exe?000+reg+9VAC5-50-60

[11] See: https://www.gpo.gov/fdsys/pkg/CFR-2018-title40-vol22/xml/CFR-2018-title40-vol22-part93.xml#seqnum93.114

[12] https://www.cadc.uscourts.gov/internet/opinions.nsf/217B6778AE3EC89C8525823600532AE0/$file/15-1115-1718293.pdf

[13] https://www.hrtpo.org/uploads/docs/FHA%20Interim%20Guidance.pdf

[14] USDOT, October 29, 2018.

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List of Acronyms

AADT	Annual Average Daily Traffic
AASHTO	American Association of the State Highway Transportation Officials
ADT	Average Daily Traffic
CAA	Clean Air Act
CEQ	Council of Environmental Quality
CO	Carbon Monoxide
EA	Environmental Assessment
EIS	Environmental Impact Statement
EO	Executive Order
FHWA	Federal Highway Administration
FONSI	Finding of No Significant Impact
FY	Fiscal Year
GHG	Greenhouse Gas
HAP	Hazardous Air Pollutant
HEI	Health Effects Institute
HRTPO	Hampton Roads Transportation Planning Organization
IRIS	Integrated Risk Information System
LOS	Level of Service
LRTP	Long-range Transportation Plan
MOVES	Motor Vehicle Emissions Simulator
MSATs	Mobile Source Air Toxics
NAAQS	National Ambient Air Quality Standards
NCHRP	National Cooperative Highway Research Program
NCRTPB	National Capital Region Transportation Planning Board
NEPA	National Environmental Policy Act
NO_2	Nitrogen Dioxide
NO_x	Nitrogen Oxide
O_3	Ozone
PA	Programmatic Agreement

Pb	Lead
PM	Particulate Matter
$PM_{2.5}$	Fine Particulate Matter
PM_{10}	Coarse Particulate Matter
POM	Polycyclic Organic Matter
PPM	Parts per Million
SIP	State Implementation Plan
SO_2	Sulfur Dioxide
TIP	Transportation Improvement Program
TPY	Tons Per Year
TSD	Technical Support Document
USEPA	United States Environmental Protection Agency
VDEQ	Virginia Department of Environmental Quality
VDOT	Virginia Department of Transportation
VMT	Vehicle Miles Traveled
VOC	Volatile Organic Compound
VPHPL	Vehicles per Hour per Lane

1. INTRODUCTION

1.1 PROJECT DESCRIPTION

The City of Suffolk is proposing to realign Crittenden Road approximately 400 feet to the south to intersect with Bridge Road at Clubhouse Drive to create a four-legged signalized intersection. The project will provide a free flow right turn lane from Crittenden Road onto Bridge Road, dual left turn lanes from Bridge Road to Crittenden Road and a right turn lane from Bridge Road onto Crittenden Road. **Figure 1-1** shows the project study area. The National Environmental Policy Act (NEPA) requires consideration of whether the proposed action will have an adverse effect on air quality in the study area. This project meets the criteria for a Categorical Exclusion (CE) pursuant to 40 CFR 1508.4 and 23 CFR 771.117[15]. . Accordingly, qualitative carbon monoxide (CO) and Mobile Source Air Toxics (MSATs) analyses have been prepared. Additionally, qualitative analyses are provided for indirect effects and cumulative impacts.

For purposes of efficiency and quality control, all emission modeling inputs were taken from or consistent with those specified in the VDOT Resource Document and associated online data repository.[16,17] Information in this report, described below, will support discussions presented in the EA.

- Section 1 provides an overview of the study and outlines the methods used to assess air quality impacts from the project alternatives under consideration.
- Section 2 provides an overview of the air quality regulatory programs and standards to which the project is subject.
- Section 3 provides an overview of the existing air quality conditions in the project area.
- Section 4 assesses the potential impacts to air quality associated with the Build and No-Build Alternative including carbon monoxide, MSATs, indirect effects and cumulative impacts, and construction emissions.
- Section 5 presents proposed mitigation measures;
- Section 6 presents public and interagency consultation; and
- Section 7 presents conclusions.

[15] FHWA Concurrence Letter of NEPA Categorical Exclusion, dated 05/16/19.

[16] The Resource Document was created by VDOT to facilitate and streamline the preparation of project-level air quality analyses. It is intended as a resource for modelers to help ensure that not only regulatory requirements and guidance, as appropriate, are met in all analyses but also high-quality standards for modeling and documentation are consistently achieved. In a comprehensive fashion, it addresses the models, methods, and assumptions (including data and data sources) needed for the preparation of air quality analyses for transportation projects by, or on behalf of, the Department. It includes an associated online data repository to support project-level modeling. It was subjected to inter-agency consultation with FHWA and other agencies before being finalized in 2016 and updated in December 2018.

[17] Copies of referenced VDOT documents (including the VDOT Resource Document and Programmatic Agreements) are available from the Department on request. Documents may also be obtained via the VDOT website: http://www.virginiadot.org/programs/pr-environmental.asp

Figure 1-1: Study Area

1.1.1 Purpose and Need

The purpose of the project is to provide improvements to operational levels of service at the intersection of Bridge Road and Crittenden Road for current traffic deficiencies and to address the grade differential within the existing intersection. In order to accommodate safety improvements at the intersection, the project proposes to realign the intersection with Clubhouse Drive, provide a free flow right turn lane from Crittenden Road onto Bridge Road, dual left turn lanes from Bridge Road to Crittenden Road and a right turn lane from Bridge Road onto Crittenden Road.

1.1.2 Alternatives

The proposed Build Alternative is described below. The proposed limits of the Build Alternative and areas identified for access improvements are shown on **Figure 1-1** above, while **Figure 1-2** shows the Build Alternative design proposed intersection improvement.

Build Alternative

In the future planned build alternative, the realigned Crittenden Road will consist of a two-lane roadway with curb and gutter and a sidewalk on the east side. The Route 17 and Crittenden Road intersection is proposed to have an at-grade intersection with Clubhouse Drive which will have a configuration developed for approval by the City of Suffolk. The proposed design consists of realigning Crittenden Road approximately 400 feet to the south to intersect with Bridge Road at Clubhouse Drive. The typical section for the realignment of Crittenden Road will include a two-lane undivided roadway with 12-foot lanes, curb and gutter, and a 5 foot sidewalk on the east side and 10 foot sidewalk on the west side. The existing Crittenden Road and Route 17 intersection and the Crittenden Road and Clubhouse Drive intersection will no longer exist under the Build Alternative.

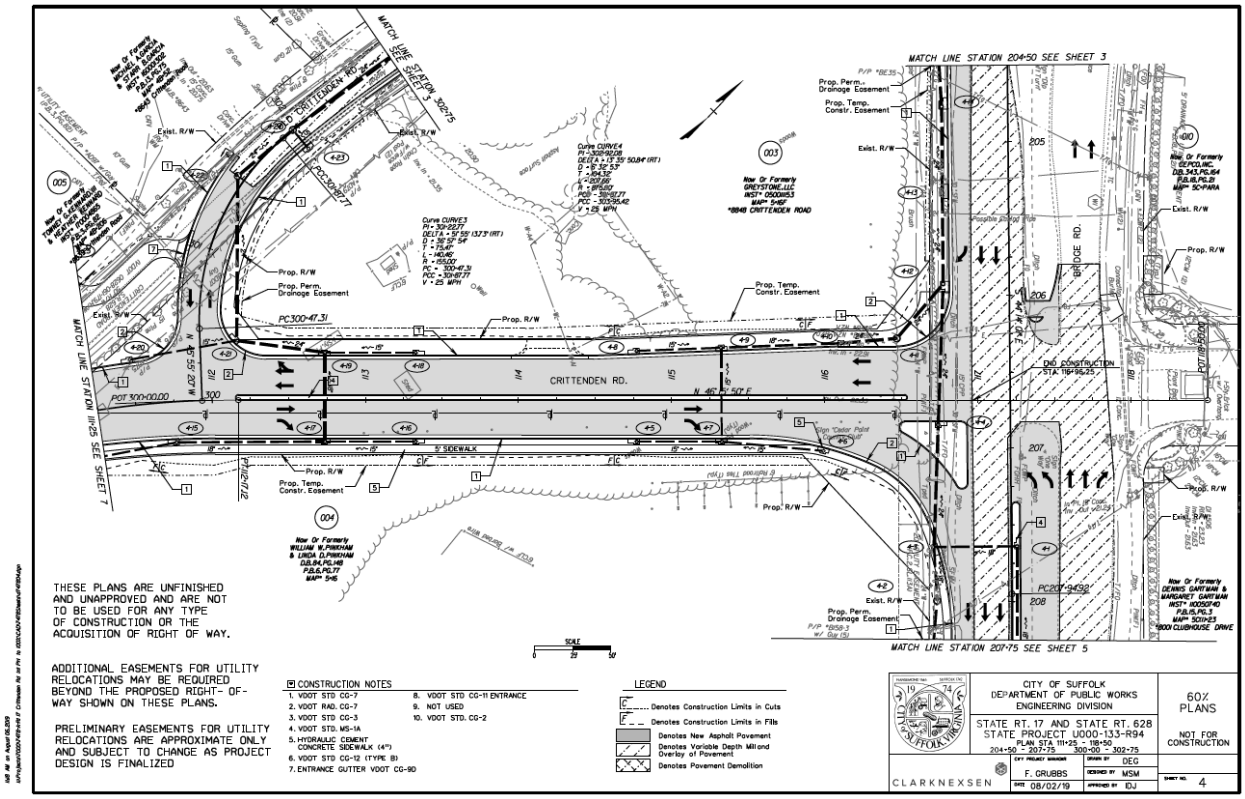

Figure 1-2: Proposed Alternative Intersection Improvements

1.2 SUMMARY OF TRAFFIC DATA AND FORECASTS (REFERENCE APPENDIX A)

For the purposes of this air quality analysis, the study was based on those intersections that will be directly affected by the Crittenden Road Intersection Improvement project. As a result, the analysis was based on the following signalized intersection:

1. Route 17 and Clubhouse Drive/Crittenden Road

As noted above, the existing Crittenden Road and Route 17 intersection and the Crittenden Road and Clubhouse Drive intersection will no longer exist under the Build Alternative. In addition, the intersection of Old Crittenden and the new Crittenden Road will not be signalized. Old Crittenden will dead end with a turn-around and will only serve as an entrance to two existing residences.

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2. REGULATORY REQUIREMENTS

This section provides an overview of regulations and guidance applicable to the project-level air quality analysis.

2.1 NATIONAL ENVIRONMENTAL POLICY ACT

NEPA applies to all federally-funded transportation projects. Air quality is an environmental concern within the broad purview of NEPA. The requirements of NEPA have been defined in the Council of Environmental Quality's (CEQ) NEPA regulations that apply to all federal agencies and the Federal Highway Administration / Federal Transit Administration (FHWA/FTA) joint NEPA procedures. However, the NEPA statute, the CEQ NEPA regulations (40 CFR 1500), and FHWA's NEPA regulations (23 CFR 771) do not contain specific requirements for air quality analyses. For air quality, FHWA has issued guidance for MSAT and CO analyses.

2.2 MOBILE SOURCE AIR TOXICS

On October 18, 2016, FHWA issued updated interim guidance regarding MSATs in a NEPA analysis to include the USEPA's recent Motor Vehicle Emissions Simulator (MOVES), Version 2014a emission model along with updated research on air toxic emissions from mobile sources.[18]

The USEPA identified nine compounds with significant contributions from mobile sources that are among the national and regional-scale cancer drivers from their 1999 National Air Toxics Assessment. The nine compounds identified were: acetaldehyde; acrolein; benzene; 1, 3-butadiene; diesel particulate matter (PM) plus diesel exhaust organic gases; ethylbenzene; formaldehyde; naphthalene; and polycyclic organic matter (POM). While FHWA considers these the priority MSATs, the list is subject to change and may be adjusted in consideration of future USEPA rules.

The FHWA guidance of October 18, 2016, presents a tiered approach for assessing MSATs in NEPA documents. The three levels are for projects with: (1) no meaningful MSAT effects; (2) low potential MSAT effects; and (3) high potential MSAT effects, respectively. The FHWA guidance defines the levels of analysis for each type of MSAT effect as:

- No analysis for projects with no potential for meaningful MSAT effects;
- A qualitative analysis for projects with low potential MSAT effects; and
- A quantitative analysis for projects with high potential MSAT effects.

The Build Alternative was evaluated against each threshold criteria in order to determine the type of MSAT analysis required to satisfy NEPA.

2.3 CARBON MONOXIDE

In 1987, FHWA issued a Technical Advisory providing guidance for preparing and processing of environmental impacts for EAs and Environmental Impact Statements (EIS) under NEPA.[19] Section V(G)(8) pertains to air quality, including a summary of the project-related CO analysis. VDOT and FHWA have developed programmatic agreements to streamline the analysis requirements for projects using worst-case modeling results, consistent with the USEPA and FHWA guidance. **Section 2.5** presents a summary of the latest Programmatic Agreement (PA), which sets the procedures and thresholds recommended for a CO air quality study for projects in Virginia.

[18] See: https://www.fhwa.dot.gov/Environment/air_quality/air_toxics/policy_and_guidance/msat/index.cfm

[19] See: https://www.environment.fhwa.dot.gov/projdev/impTA6640.asp#aq

2.4 PARTICULATE MATTER

The project is in an attainment area for fine particulate matter ($PM_{2.5}$), therefore, transportation conformity requirements pertaining to PM do not apply for this Project.

2.5 PROGRAMMATIC AGREEMENTS

Programmatic agreements are legal documents between the United States Department of Transportation and a state Department of Transportation that are designed to help streamline the environmental clearance process for transportation projects. Programmatic agreements can help focus limited resources on assessing larger projects with greater potential for air quality impacts.

On May 16, 2016, FHWA and VDOT implemented a "*Programmatic Agreement for Project-Level Air Quality Analyses for Carbon Monoxide*"[20] (hereinafter "2016 Agreement") that was developed based on a national template that was created in a recently completed National Cooperative Highway Research Program (NCHRP) study (ICF International et al., 2015). The NCHRP template was designed to be applied using state-specific background concentrations and persistence factors, without the need to update the detailed worst-case CO modeling as presented in its Technical Support Document (TSD). The 2016 Agreement uses the number of lanes and other criteria to screen projects involving highway links, unskewed intersections, and interchanges with adjacent unskewed intersections.

As the new NCHRP template agreement does not include skewed intersections, the 2016 FHWA-VDOT Agreement incorporates, by reference, criteria for skewed intersections from the previously existing 2009 FHWA-VDOT "*Project-Level Carbon Monoxide Air Quality Studies Agreement"* (hereinafter "2009 Agreement"). Under the terms of the 2009 Agreement, project-level air quality (hot-spot) analyses are typically only conducted for CO for projects that exceed specified average daily traffic (ADT) thresholds. Different ADT thresholds are specified for different intersection skew angles. Worst-case ranked intersections and interchanges that cannot be screened using the 2016 Agreement (including the referenced 2009 Agreement criteria) are quantitatively assessed using worst-case modelling assumptions for CO consistent with the VDOT Resource Document.

Projects that meet the criteria specified in the 2016 Agreement (or by reference, the thresholds from the 2009 Agreement) do not require project-specific modelling for CO. For those projects, the air quality analysis can simply reference the 2016 Agreement, as appropriate, and the worst-case modelling for CO on which its thresholds/criteria are based.

2.6 CLEAN AIR ACT

2.6.1 National Ambient Air Quality Standards (NAAQS)

Pursuant to the Federal Clean Air Act (CAA) of 1970, the USEPA established NAAQS for major pollutants known as "criteria pollutants." Currently, the USEPA regulates six criteria pollutants: O_3, CO, nitrogen dioxide (NO_2), sulfur dioxide (SO_2), PM, and lead (Pb). PM is divided into two particle size categories: particles with a diameter less than 10 micrometers (PM_{10}) and those with a diameter of less than 2.5 micrometers ($PM_{2.5}$). **Table 2-1** shows the primary and secondary NAAQS for the criteria pollutants. The NAAQS are two-tiered: the first tier (primary) is intended to protect public health; the second tier (secondary) is intended to protect public welfare and prevent degradation of the environment.

Section 176(c) of the CAA requires federal agencies to ensure that all of their actions conform to applicable implementation plans for achieving and maintaining the NAAQS. Federal actions must not cause or contribute to any new violation of any standard, increase the frequency or severity of any existing violation, or delay timely attainment of any standard in non-attainment and maintenance areas.

[20] http://www.virginiadot.org/projects/resources/air/2016_FHWA-VDOT_PA_for_CO_from_NCHRP25-2578_Attachment2_FINAL.pdf

The NAAQS apply to the concentration of a pollutant in outdoor ambient air. If the air quality in a geographic area is equal to, or is better than the national standard, the USEPA will designate the region as an attainment area. Areas where air quality does not meet the national standards are designated as non-attainment areas. Once the air quality in a non-attainment area improves to the point where it meets the standards and the additional redesignation requirements in the CAA (Section 107(d)(3)(E)), the USEPA may redesignate the area as an attainment/maintenance area, which are typically referred to as "maintenance areas."

The CAA requires the USEPA to designate the status of all areas as being in or out of compliance with the NAAQS. The CAA further defines non-attainment areas for ozone based on the severity of the violation as marginal, moderate, serious, severe, and extreme.

Table 2-1: National Ambient Air Quality Standards[21]

Pollutant [links to historical tables of NAAQS reviews]		Primary/ Secondary	Averaging Time	Level	Form
Carbon Monoxide (CO)		primary	8 hours	9 ppm	Not to be exceeded more than once per year
			1 hour	35 ppm	
Lead (Pb)		primary and secondary	Rolling 3 month average	0.15 µg/m^3 (1)	Not to be exceeded
Nitrogen Dioxide (NO_2)		primary	1 hour	100 ppb	98th percentile of 1-hour daily maximum concentrations, averaged over 3 years
		primary and secondary	1 year	53 ppb (2)	Annual Mean
Ozone (O_3)		primary and secondary	8 hours	0.070 ppm (3)	Annual fourth-highest daily maximum 8-hour concentration, averaged over 3 years
Particle Pollution (PM)	$PM_{2.5}$	primary	1 year	12.0 µg/m^3	annual mean, averaged over 3 years
		secondary	1 year	15.0 µg/m^3	annual mean, averaged over 3 years
		primary and secondary	24 hours	35 µg/m^3	98th percentile, averaged over 3 years
	PM_{10}	primary and secondary	24 hours	150 µg/m^3	Not to be exceeded more than once per year on average over 3 years
Sulfur Dioxide (SO_2)		primary	1 hour	75 ppb (4)	99th percentile of 1-hour daily maximum concentrations, averaged over 3 years
		secondary	3 hours	0.5 ppm	Not to be exceeded more than once per year

Notes:

[21] See: https://www.epa.gov/criteria-air-pollutants/naaqs-table (accessed August 1, 2019).

(1) In areas designated nonattainment for the Pb standards prior to the promulgation of the current (2008) standards, and for which implementation plans to attain or maintain the current (2008) standards have not been submitted and approved, the previous standards (1.5 µg/m3 as a calendar quarter average) also remain in effect.

(2) The level of the annual NO2 standard is 0.053 ppm. It is shown here in terms of ppb for the purposes of clearer comparison to the 1-hour standard level.

(3) Final rule signed October 1, 2015, and effective December 28, 2015. The previous (2008) O3 standards additionally remain in effect in some areas. Revocation of the previous (2008) O3 standards and transitioning to the current (2015) standards will be addressed in the implementation rule for the current standards.

(4) The previous SO2 standards (0.14 ppm 24-hour and 0.03 ppm annual) will additionally remain in effect in certain areas: (1) any area for which it is not yet 1 year since the effective date of designation under the current (2010) standards, and (2)any area for which an implementation plan providing for attainment of the current (2010) standard has not been submitted and approved and which is designated nonattainment under the previous SO2 standards or is not meeting the requirements of a SIP call under the previous SO2 standards (40 CFR 50.4(3)). A SIP call is an EPA action requiring a state to resubmit all or part of its State Implementation Plan to demonstrate attainment of the required NAAQS.

2.7 DESCRIPTION OF PROJECT LEVEL POLLUTANTS

CO is a toxic colorless and odorless gas that results from the incomplete combustion of gasoline and other fossil fuels. Because CO disperses quickly, the concentrations can vary greatly over relatively short distances. Relatively high concentrations of CO may occur near congested intersections, along heavily used roadways conveying slow-moving traffic, and in areas where atmospheric dispersion is inhibited by urban "street canyon" conditions.

2.8 TRANSPORTATION CONFORMITY

The USEPA promulgated the transportation conformity rule (40 CFR Parts 51 and 93) pursuant to requirements of the CAA. The rule **only** applies in USEPA-designated non-attainment or maintenance areas (40 CFR 93.102(b)). As noted in the next section (**Section 3.1)**, the study area is located in the City of Suffolk where the United States Environmental Protection Agency's (EPA) Green Book shows the City of Suffolk to be designated as an attainment area for all criteria pollutants. Therefore, *project-level* transportation conformity rule requirements for CO and $PM_{2.5}$ *specifically* do not apply for this region.

Notwithstanding that listing in the EPA Green Book, federal conformity requirements, including specifically 40 CFR 93.114[22] and 40 CFR 93.115[21], apply for the project as the area in which it is located is one affected by a recent court decision[23] that reinstates conformity requirements nationwide associated with the 1997 ozone NAAQS that had previously been eliminated with the revocation by EPA of that NAAQS in 2015.

After the Court issued its ruling in February 2018, EPA filed a petition for rehearing on various issues, both as to the merits of the Court's ruling and the remedy imposed by the Court. On September 14, 2018, the Court denied EPA's request for rehearing on the merits, but stayed its vacatur of the transportation conformity aspects of its ruling until February 16, 2019. In essence, the Court provided EPA with one year from the date of its original decision to implement its ruling, and that year expires on February 16, 2019. On October 1st FHWA released *Updated Interim Guidance on Conformity Requirements for the 1997 Ozone NAAQS*[24] which states in part," All planning and project development actions (including NEPA approvals) in "orphan" areas taken prior to this date may proceed and are not subject to conformity requirements for the 1997 ozone NAAQS." Conformity determinations for the 1997 ozone NAAQS will be required on plan, TIP and project actions after February 15, 2019.

The project is currently included in the Hampton Roads Transportation Planning Organization (HRTPO) FY 2018 – 2021 Transportation Improvement Program (UPC # 111089) and the HRTPO 2040 Long-Range

[22] See: https://www.gpo.gov/fdsys/pkg/CFR-2018-title40-vol22/xml/CFR-2018-title40-vol22-part93.xml#seqnum93.114

[23] https://www.cadc.uscourts.gov/internet/opinions.nsf/217B6778AE3EC89C8525823600532AE0/$file/15-1115-1718293.pdf

[24] https://www.hrtpo.org/uploads/docs/FHA%20Interim%20Guidance.pdf

Transportation Plan, which received a joint FTA/FHWA conformity finding for the 1997 ozone standard, dated October 29, 2018[25].

2.9 CLIMATE CHANGE AND GREENHOUSE GAS IMPACTS

With the recent withdrawal of federal guidance addressing greenhouse gas analyses and climate change[26], The Department protocol (VDOT Resource Document, Section 4.7) for greenhouse gas (GHG) analyses was reviewed for applicability to this project. Based on the Department protocol that limits GHG analyses to projects involving an Environmental Impact Statement (EIS), a GHG analysis is not warranted for this project as it involves an CE and not an EIS. Therefore, a GHG analysis was not conducted for this project.

[25] USDOT, October 29, 2018.

[26] See: https://www.federalregister.gov/documents/2017/04/05/2017-06770/withdrawal-of-final-guidance-for-federal-departments-and-agencies-on-consideration-of-greenhouse-gas

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3. EXISTING CONDITIONS

3.1 AIR QUALITY ATTAINMENT STATUS OF THE PROJECT AREA

The USEPA Green Book,[27] which lists non-attainment, maintenance, and attainment areas was reviewed to determine the designations for the City of Suffolk which the project is located. The USEPA Green Book shows that City of Suffolk is designated as attainment area for all NAAQS.

3.2 CLIMATE AND METEOROLOGY

The climate of the area in which the project is located is influenced by the ocean with four distinct seasons. Winters are mild with limited snowfall and summers are hot and humid. Based on data provided by the National Weather Service, the average annual temperature for the City of Suffolk area (using Norfolk area as the closest most representative station) is 61.1 degrees Fahrenheit. The area typically receives 50.28 inches of rainfall annually and up to 6.4 inches of snow.[28]

3.3 AMBIENT AIR QUALITY DATA AND TRENDS

The Virginia Department of Environmental Quality's (VDEQ's) annual air quality monitoring report[29] shows that measured pollutant concentrations from all stations representative of the study area.

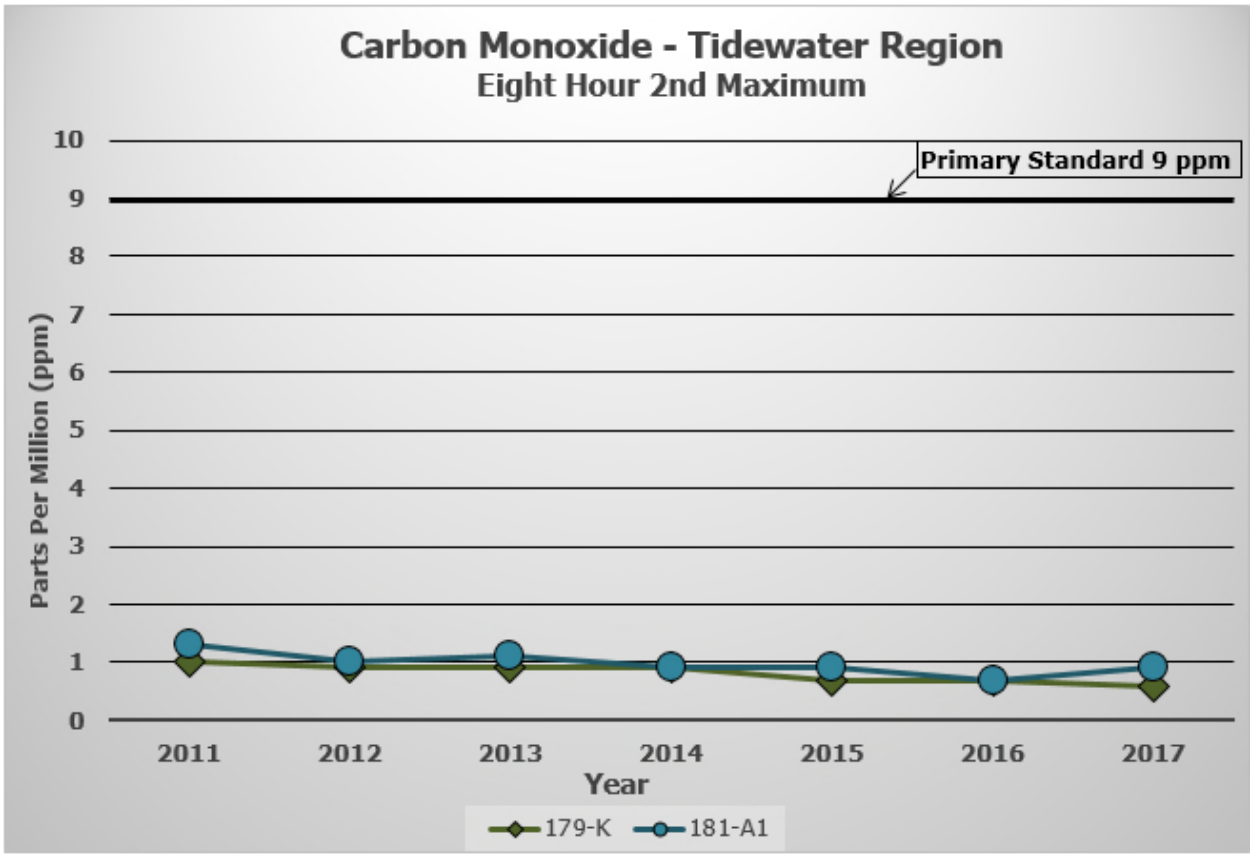
As presented in **Figure 3-1** through **Figure 3-5**, VDEQ's ten-year monitoring data indicates that criteria pollutants concentrations have been decreasing in the Tidewater Region. The reduction in CO, SO_2, NOx, and ozone emissions is due to a variety of control measures that have been implemented over the last two decades, including motor vehicle engine controls and reductions in evaporative emissions from gasoline stations and consumer products, as well as reductions from power plants, businesses, and residential combustion sources.

[27] USEPA Green Book: https://www3.epa.gov/airquality/greenbook/anayo_va.html (accessed on July 17, 2019)

[28] National Weather Service http://w2.weather.gov/climate/xmacis.php?wfo=akq (accessed on July 17, 2019)

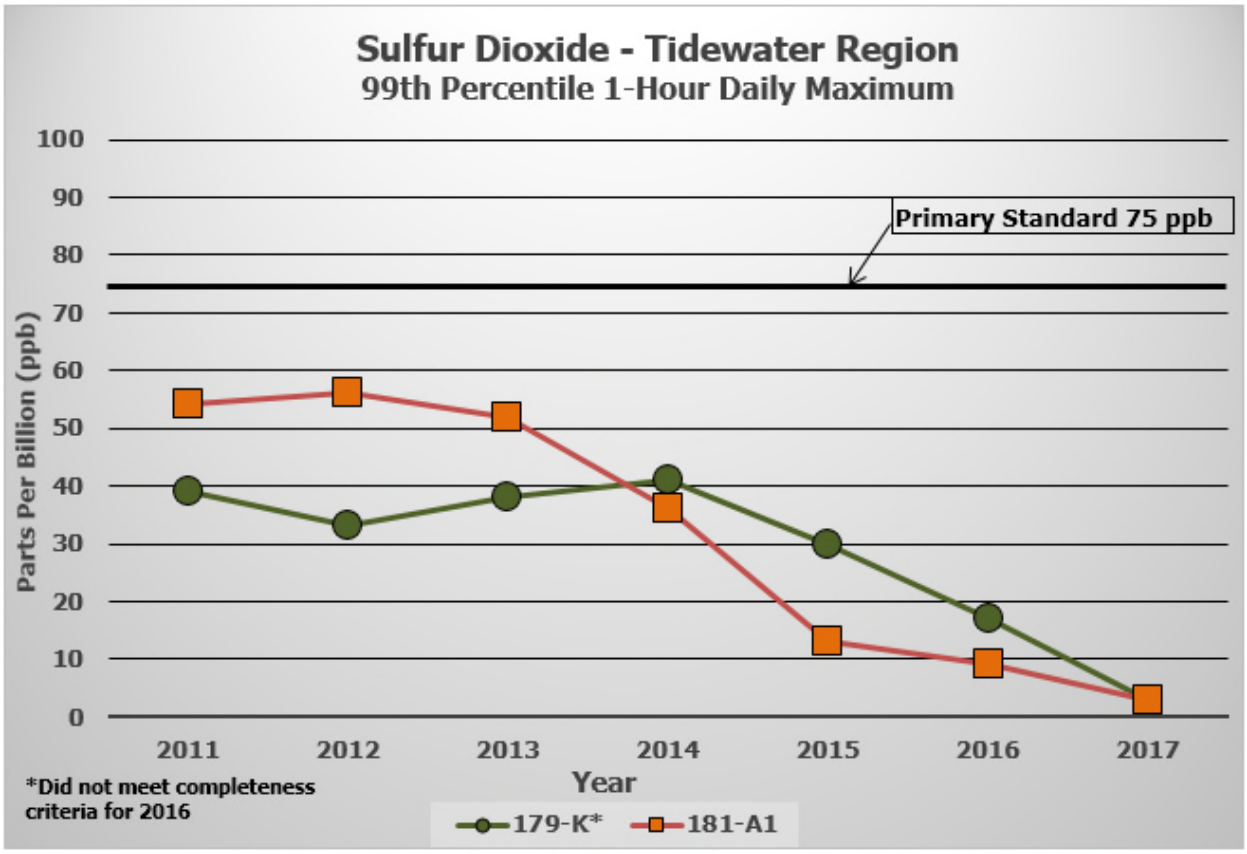
[29] See: https://www.deq.virginia.gov/Programs/Air/AirMonitoring/Publications.aspx. 2017 Annual Data Report

Figure 3-1: VDEQ 10-Year Trend for 8-hour Carbon Monoxide (PPM) – Tidewater Region



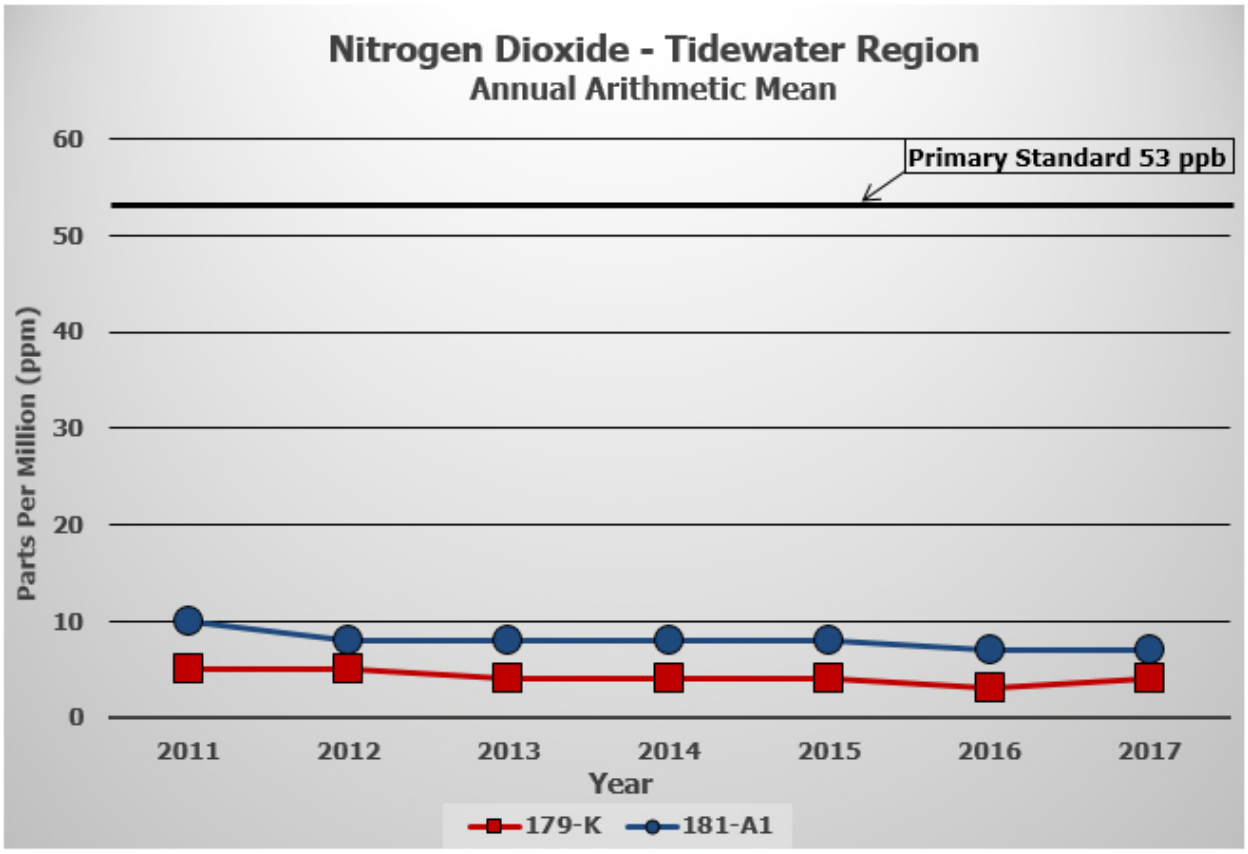
Source: VDEQ Virginia Ambient Air Monitoring 2017 Data Report.

Figure 3-2: VDEQ 10-Year Trend for 1-hour Sulfur Dioxide (PPM) – Tidewater Region



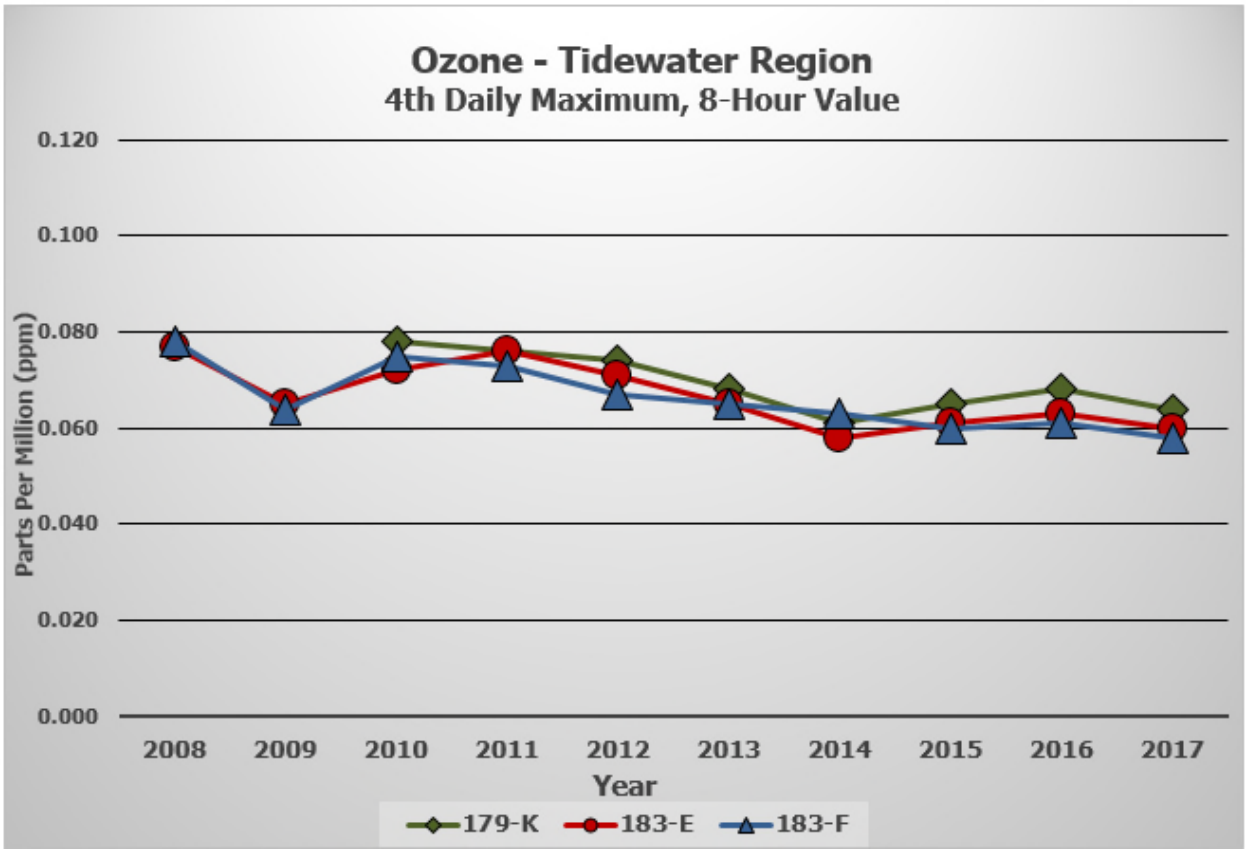
Source: VDEQ Virginia Ambient Air Monitoring 2017 Data Report

Figure 3-3: VDEQ 10-Year Trend for Annual Nitrogen Dioxide (PPM) – Tidewater Region



Source: VDEQ Virginia Ambient Air Monitoring 2017 Data Report

Figure 3-4: VDEQ 10-Year Trend for 8-hour Ozone (PPM) – Tidewater Region



Source: VDEQ Virginia Ambient Air Monitoring 2017 Data Report.

4. PROJECT ASSESSMENT

The methodologies and assumptions applied for the analysis are consistent with FHWA and USEPA guidance as well as the VDOT *Project Level Air Quality Analysis Resource Document,*[30] including its associated on-line data repository.

Traffic forecasts for the Study Alternatives were developed for the Existing (2017), Opening-Year (2025) and Design-Year (2048) conditions including the Build and No-Build Alternative.

4.1 CARBON MONOXIDE (CO) ANALYSIS

4.1.1 Methodology

The CO analysis included a review of intersections in the project area to identify the worst-case locations for assessment. The USEPA's detailed guidance[31] for CO analyses was applied (though not required as the project area is in attainment for CO and therefore not subject to conformity requirements for CO) to identify the worst-case intersections to consider for the analysis based on forecasts of peak volumes and intersection LOS. Intersections were then screened using the previously-referenced 2016 Agreement. The 2016 Agreement establishes the type of projects and conditions that would not require project-specific modeling or a quantitative air quality analysis for compliance with the NAAQS. These project types require qualitative statements that reference the Agreement and its technical support document (TSD).

The 2016 Agreement includes thresholds for non-skewed intersection, however to address skewed intersections, the 2016 Agreement incorporates by reference the criteria specified in the previously existing 2009 Agreement for skewed intersections. Under the terms of the 2009 Agreement, project-level air quality (hot-spot) analyses are typically only conducted for CO projects that exceed specified average daily traffic (ADT) and level of service (LOS) thresholds or for any project for which an EIS is being prepared.

4.1.2 Intersections Studied

An analysis of the LOS and peak hourly volumes were evaluated for the Build Alternative for consideration under the 2016 Agreement. As there is only one affected signalized intersection under the Build Alternative, the intersection was summarized by worst-case peak AM or PM volumes and LOS for the Build Alternative years 2025 and 2048. As discussed earlier, the existing Crittenden Road and Route 17 intersection will not exist in the Build Alternative and the intersection of Old Crittenden and the new Crittenden Road will not be signalized. Old Crittenden will dead end with a turn-around and will only serve as an entrance to two existing residences.

Traffic volumes of the signalized intersection is included in **Appendix A**. A summary of the intersection traffic including LOS, peak AM and PM hourly volumes and delay are presented in **Table 4-1**. The intersection location studied for the Alternative is shown as a blue dot in **Figure 4-1** (Route 17 and Crittenden Road and Clubhouse Road is signalized in the Build Alternative). As shown in **Table 4-2** and **Table 4-3,** the intersection was summarized for the Build Alternative for the worst case peak hourly volumes and LOS for 2025 and 2048 conditions and compared to the 2016 Agreement.

[30] VDOT Project–Level Air Quality Analysis Resource Document, Version 2.0, December 2018.

[31] U.S. Environmental Protection Agency, *Guideline for Modeling Carbon Monoxide from Roadway Intersections*, USEPA-454/R-92-005, Office of Air Quality Planning and Standards, November 1992.

Figure 4-1: Study Area Intersections

Table 4-1: Summary of the Intersections including LOS, Peak AM and PM Hourly Volumes, and Delay

		Total Intersection Peak Hour Volume					Overall Intersection LOS + Delay (sec)									
AM		Existing	No Build		Build		Existing		No Build				Build			
EW	NS	2017	2025	2048	2025	2048	2017		2025		2048		2025		2048	
Crittenden Road	Route 17	1,634	1,950	3,617			B	11.1	B	14.2	F	294.9				
Club House Drive	Route 17	1,635	1,907	3,367			A	0.8	A	0.8	B	12.1				
Crittenden/Clubhouse	Route 17				2,010	3,645							A	7.8	B	18.0

PM		Existing	No Build		Build		Existing		No Build				Build			
EW	NS	2017	2025	2048	2025	2048	2017		2025		2048		2025		2048	
Crittenden Road	Route 17	2,026	2,408	4,393			B	10.2	B	14.1	F	308.1				
Club House Drive	Route 17	2,006	2,341	4,008			A	0.9	A	1.4	F	103.4				
Crittenden/Clubhouse	Route 17				2,462	4,416							A	8.1	C	23.5

Notes: Does not exist in the Future Build Conditions

Table 4-2: Worst Case Volume and LOS 2025 Comparison to 2016 Agreement and ADT Thresholds

			Intersection Data							2025 Build				2025 No-Build
Rank	Intersection Name	Signalized	Skew Angle	Approach Lanes (total)[3]	Departure Lanes (total)[3]	Largest Mainline Grade (%)	Largest Cross Street Grade (%)	Lowest Posted Speed Limit (mph)	2025 Build Vehicle per Hour per Lane (vphpl)	ADT	Peak AM/PM Volume	LOS	Delay(s)	Delay(s)
1	Route 17 & Clubhouse/Crittenden	Signalized	90	8	5	0.5	1	45	308	23,420	2462	A	8.1	14.2

			2016 Programmatic Agreement[1,2]						2009 Programmatic Agreement[1]					
Rank	Intersection Name	Signalized	Skewed Intersection (Yes/No)	Grade - Mainline 2% or Less and Cross Street at 0%	Approach Speed Greater than 15 mph (Yes/No)	Maximum Lanes at the Intersection per approach < 6 (Yes/No)	Maximum Lanes at the Intersection per departure < 4 (Yes/No)	Screen Out with 2016 PA?	Vehicles per Hour per Lane < 1037?	ADT Less than 59,000 (Skew Angle > 60 deg.)?	ADT Less than 49,000 (45 ≤ Skew Angle < 60 deg.)?	ADT Less than 39,000 (30 ≤ Skew Angle < 45 deg.)?	Screen Out with 2009 PA?	Screen Out with Weight of Evidence?
1	Route 17 & Clubhouse/Crittenden	Signalized	No	Yes	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A

1. 2016 VDOT Programmatic Agreement with FHWA which references screening criteria (primarily Design-Year average daily traffic and intersection skew angle) that were previously established in the 2009 PA based on worst-case modeling of 1,037 vehicles per lane.
2. The 2016 PA also contains Intersection screening criteria of for 90 degree intersections, 6 approach lanes, 4 lanes on each departure, and a roadway grade of 2 percent (mainline) and 0 percent (cross-street), and vehicle speeds greater than 15 mph.
3. Approach lanes total 8, which is broken down into 5 lanes on the northbound inbound and 3 lanes on the southbound inbound along Route 17. Total departure lanes are 5, which is broken down into 3 southbound and 2 northbound on Route 17.
4. Worst of either AM or PM peak volumes was chosen.
5. N/A denotes 2009 PA not applicable for this analysis since intersection is not skewed.

Table 4-3: Worst Case Volume and LOS 2048 Comparison to 2016 Agreement and ADT Thresholds

			Intersection Data							2048 Build				2048 No-Build
Rank	Intersection Name	Signalized	Skew Angle	Approach Lanes (total)[3]	Departure Lanes (total)[3]	Largest Mainline Grade (%)	Largest Cross Street Grade (%)	Lowest Posted Speed Limit (mph)	2048 Build Vehicle per Hour per Lane (vphpl)	ADT	Peak AM/PM Volume	LOS	Delay(s)	Delay(s)
1	Route 17 & Clubhouse/Crittenden	Signalized	90	8	5	0.5	1	45	552	31,522	4416	C	23.5	308.1

			2016 Programmatic Agreement[1,2]						2009 Programmatic Agreement[1]					
Rank	Intersection Name	Signalized	Skewed Intersection (Yes/No)	Grade - Mainline 2% or Less and Cross Street at 0%	Approach Speed Greater than 15 mph (Yes/No)	Maximum Lanes at the Intersection per approach < 6 (Yes/No)	Maximum Lanes at the Intersection per departure < 4 (Yes/No)	Screen Out with 2016 PA?	Vehicles per Hour per Lane < 1037?	ADT Less than 59,000 (Skew Angle > 60 deg.)?	ADT Less than 49,000 (45 ≤ Skew Angle < 60 deg.)?	ADT Less than 39,000 (30 ≤ Skew Angle < 45 deg.)?	Screen Out with 2009 PA?	Screen Out with Weight of Evidence?
1	Route 17 & Clubhouse/Crittenden	Signalized	No	Yes	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A

1. 2016 VDOT Programmatic Agreement with FHWA which references screening criteria (primarily Design-Year average daily traffic and intersection skew angle) that were previously established in the 2009 PA based on worst-case modeling of 1,037 vehicles per lane.
2. The 2016 PA also contains Intersection screening criteria of for 90 degree intersections, 6 approach lanes, 4 lanes on each departure, and a roadway grade of 2 percent (mainline) and 0 percent (cross-street), and vehicle speeds greater than 15 mph.
3. Approach lanes total 8, which is broken down into 5 lanes on the northbound inbound and 3 lanes on the southbound inbound along Route 17. Total departure lanes are 5, which is broken down into 3 southbound and 2 northbound on Route 17.
4. Worst of either AM or PM peak volumes was chosen.
5. N/A denotes 2009 PA not applicable for this analysis since intersection is not skewed.

As shown in **Table 4-2** and **Table 4-3**, there is one non-skewed intersection studied for the 2025 and 2048 Build conditions:

1. Route 17 and Clubhouse Drive/Crittenden Road.

The 2016 Agreement was then applied to screen the intersection for the Build Alternative. The intersection is expected to operate at LOS C or better. As shown in **Table 4-2** and **Table 4-3**, the intersection is non-skewed and does meet the criteria as established in the 2016 Agreement for non-skewed intersections. The speed limits are greater than 15 mph, the road grades are essentially flat (generally less than 2 percent) and the approach and departure lanes are less than six lanes (e.g. 5) and four lanes (e.g. 3), respectively. In addition, based on this project's Opening-Year of 2025, the emission factors would be much lower for CO given the continued fleet turnover to newer vehicles, which are designed to meet more stringent emission standards set by the USEPA.

Therefore, project-specific CO hot-spot modeling is not needed for this intersection, as it can be cleared based on the Agreement and the worst-case CO hot-spot modeling for intersections on which it was based.

4.2 MOBILE SOURCE AIR TOXICS ANALYSIS

4.2.1 Methodology

FHWA most recently updated its guidance for the assessment of MSATs in the NEPA process for highway projects in 2016[32]. The guidance identifies nine priority MSATs: "1,3-butadiene, acetaldehyde, acrolein, benzene, diesel particulate matter (diesel PM), ethylbenzene, formaldehyde, naphthalene, and polycyclic organic matter." It also specifies three possible categories or tiers of analysis, namely, 1) projects with no meaningful potential MSAT effects or exempt projects (for which MSAT analyses are not required), 2) projects with low potential MSAT effects (requiring only qualitative analyses), and 3) projects with higher potential MSAT effects (requiring quantitative analyses). As this project qualifies for a CE under 23 CFR 771.117[33], and therefore under FHWA guidance is categorized as a Tier 1 project for which no meaningful MSAT effects would be expected, neither a qualitative nor a quantitative analysis is needed. In addition, this project has been determined to generate minimal air quality impacts for Clean Air Act criteria pollutants and has not been linked with any special MSAT concerns. As such, this project will not result in changes in traffic volumes, vehicle mix, basic project location, or any other factor that would cause a meaningful increase in MSAT impacts of the project from that of the no-build alternative.

Moreover, EPA regulations for vehicle engines and fuels will cause overall MSAT emissions to decline significantly over the next several decades. As noted in the referenced FHWA MSAT guidance, based on regulations now in effect, an analysis of national trends with EPA's MOVES2014 model forecasts a combined reduction of over 90 percent in the total annual emissions rate for the priority MSAT from 2010 to 2050 while vehicle-miles of travel are projected to increase by over 45 percent. This will both reduce the background level of MSAT as well as the possibility of even minor MSAT emissions from this project.

[32] https://www.fhwa.dot.gov/environment/air_quality/air_toxics/policy_and_guidance/msat/

[33] FHWA Concurrence Letter of NEPA Categorical Exclusion, dated 05/16/19.

4.3 INDIRECT EFFECTS AND CUMULATIVE IMPACTS

Effects of the project that would occur at a later date or are fairly distant from the project are referred to as indirect effects. Cumulative impacts are those effects that result from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions. Cumulative impacts are inclusive of the indirect effects. As summarized below, the potential for indirect effects or cumulative impacts to air quality that may be attributable to this project is not expected to be significant.

First, regarding the potential for indirect effects, the qualitative assessments conducted for project-specific CO, qualitative analyses for MSAT impacts and the regional conformity analysis conducted for ozone can all be considered indirect effects analyses because they look at air quality impacts attributable to the project that occur in the future. These analyses demonstrate that, in the future: 1) air quality impacts from CO will not cause or contribute to violations of the CO NAAQS, 2) MSAT emissions will be significantly lower than they are today, and 3) the mobile source emissions budgets established for the region for purposes of meeting the ozone NAAQS will not be exceeded.

Regarding the potential for cumulative impacts, EPA's air quality designations for the region reflect, in part, the accumulated mobile source emissions from past and present actions. Since EPA has designated the region to be in attainment for all of the NAAQS, the potential for cumulative impacts associated with the project is not expected to be significant. However, with the recent court decision that reinstates conformity requirements in the project region, the annual regional conformity analysis conducted by VDOT[34] represents a cumulative impact assessment for purposes of regional air quality. The conformity analysis quantifies the amount of mobile source emissions for which the area is designated non-attainment that will result from the implementation of all reasonably foreseeable regionally significant transportation projects in the region (i.e. those proposed for construction funding over the life of the region's transportation plan. The most recent conformity analysis was completed in July 2018, with FHWA and FTA issuing a conformity finding on October 29, 2018 for which the project was included. The analysis demonstrated that the incremental impact of the proposed project on mobile source emissions, when added to the emissions from other past, present, and reasonably foreseeable future actions, is in conformance with the State Implementation (Air Quality) Plan (SIP) and will not cause or contribute to a new violation, increase the frequency or severity of any violation, or delay timely attainment of the NAAQS established by EPA.

Therefore, the indirect and cumulative effects of the project are not expected to be significant.

4.4 CONSTRUCTION EMISSIONS ANALYSIS

Construction of this project would cause only temporary increases in emissions. A quantitative assessment of construction emissions is not indicated as the project location is not in an area subject to project-level conformity requirements for CO. Additionally, even if conformity did apply, the primary criterion for conducting construction emission analyses for conformity purposes (five years, per 40 CFR 93.123(c)(5)) would not be exceeded for the construction of this project.

[34] https://www.hrtpo.org/uploads/docs/080118%2008%20-%20Enclosure%20RCA%20HR%202040%20LRTP%20%26%20FY%2018-21%20TIP%20-%20Draft%20Report%20%26%20Appendices.pdf

5. MITIGATION

Emissions may be produced in the construction of this project from heavy equipment and vehicle travel to and from the site, as well as from fugitive sources. Construction emissions are short term or temporary in nature. To mitigate these emissions, all construction activities are to be performed in accordance with VDOT *Road and Bridge Specifications*[35].

In addition, as noted previously, the Virginia Department of Environmental Quality (VDEQ) provides general comments for projects by county. Their comments in part address mitigation[36]: "*…all reasonable precautions should be taken to limit the emissions of VOC and NOx. In addition, the following VDEQ air pollution regulations must be adhered to during the construction of this project: 9 VAC 5-130, Open Burning restrictions*[37]*; 9 VAC 5-45, Article 7, Cutback Asphalt restrictions*[38]*; and 9 VAC 5-50, Article 1, Fugitive Dust precautions*[39]."

[35] See http://www.virginiadot.org/business/const/spec-default.asp

[36] Spreadsheet entitled: "DEQ SERP Comments rev8b", March 2017

[37] See: http://leg1.state.va.us/000/reg/TOC09005.HTM#C0130

[38] See: http://leg1.state.va.us/cgi-bin/legp504.exe?000+reg+9VAC5-45-760

[39] See: http://leg1.state.va.us/cgi-bin/legp504.exe?000+reg+9VAC5-50-60

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6. CONSULTATION

6.1 PUBLIC CONSULTATION

Public consultation is generally conducted and documented within the overall NEPA process, and not separately for any specialty area (including air quality). Please refer to the overall NEPA documentation for a summary of public consultation activities for this project.

6.2 INTERAGENCY CONSULTATION

6.2.1 Models, Methods, Assumptions and Protocols Specified in the Resource Document

All models, methods, assumptions and protocols specified or referenced within the VDOT Resource Document to be applied in project-level analyses for projects in Virginia were subjected to inter-agency consultation with FHWA, DEQ and other agencies as required by the federal transportation conformity rule (IACC) and for purposes of NEPA (IAC) prior to it being finalized in 2016. IACC was required at that time as it was before project-level conformity requirements in Virginia were eliminated for CO (with the expiry of the CO maintenance plan on March 16, 2016) and PM (with EPA's revocation of the applicable NAAQS effective October 24, 2016). Appendix A of the Resource Document provides a summary of the consultation process and results. Currently, inter-agency consultation is limited to that needed for purposes of NEPA.

Notwithstanding that listing in the EPA Green Book which shows the City of Suffolk is in attainment of all NAAQS, federal conformity requirements, apply for the project as the area in which it is located is one affected by a recent court decision that reinstates conformity requirements nationwide associated with the 1997 ozone NAAQS that had previously been eliminated with the revocation by EPA of that NAAQS in 2015. The most recent conformity analysis was completed by VDOT in July 2018, with FHWA and FTA issuing a conformity finding on October 29, 2018[40] for which the project was included.

For transparency, as the applicable federal conformity requirements for the City of Suffolk as specified in federal regulations and guidance have changed since the issuance or last update of the Resource Document (which incorporates all such updates automatically) but have not been explicitly incorporated into an updated version of the Resource Document and/or the associated online data repository.

[40] USDOT, October 29, 2018

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7. CONCLUSIONS

The proposed improvements were assessed for potential air quality impacts and compliance with applicable air quality regulations and requirements. All models, methods/protocols and assumptions applied in modeling and analyses were made consistent with those provided or specified in the VDOT Resource Document. The assessment indicates that the project would meet all applicable air quality requirements of the National Environmental Policy Act (NEPA) and federal and state transportation conformity regulations. As such, the project will not cause or contribute to a new violation, increase the frequency or severity of any violation, or delay timely attainment of the NAAQS established by the EPA.

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APPENDIX A. TRAFFIC ANALYSIS

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1.2 Traffic Study Objectives

The purpose of this traffic study is to determine Future Year Build traffic projections, as well as the operational analysis of the proposed improvements at the study intersection. This traffic analysis study includes traffic counts and design year improvement recommendations. This report summarizes the analysis of existing and forecasted conditions.

The following (2) two intersections will be analyzed in this study:

1. Crittenden Road and Bridge Road
2. Clubhouse Drive and Bridge Road

The project intersections can be seen in **Figure 1.2**.

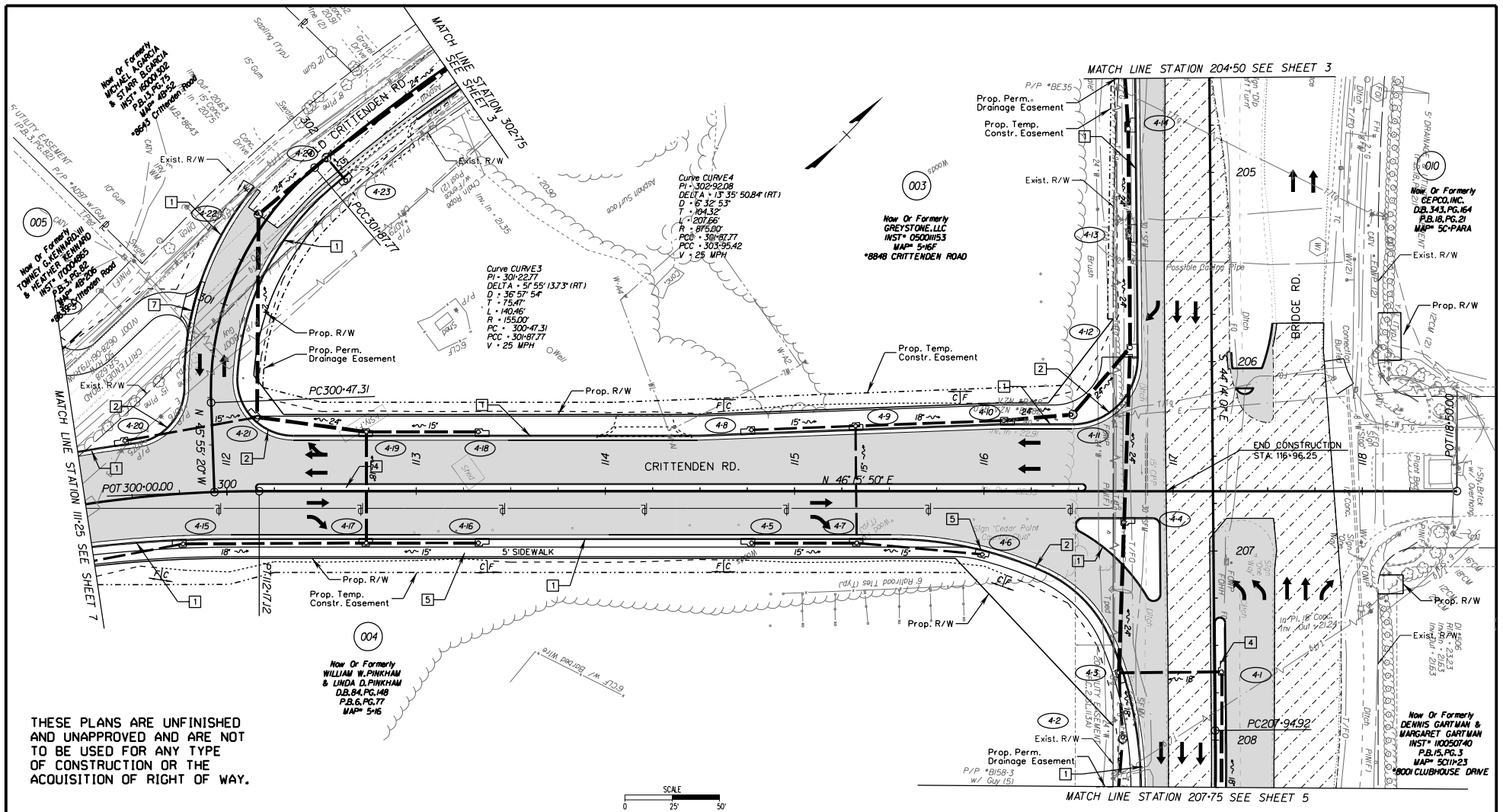
Figure 1.2 Rt. 17/Crittenden Road Intersection Improvement project intersections

2.0 Existing Conditions

Within the project intersection, Crittenden Road is a two-lane urban minor arterial with 11-foot lanes, 1-foot shoulders, and no curb with open ditches for drainage. Within the project area, Bridge Road is a four-lane divided urban principal arterial with 11-foot lanes, 1-foot shoulders, and no curb with open ditches for drainage.

2.1 Crittenden Road

Crittenden Road runs in the east/west direction from the west from where it intersects with Kings Highway, and from the east where it intersects with Bridge Road. Within the project area, Crittenden Road is a two-lane undivided minor arterial with a posted speed limit of 35 mph.



THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT- OF-WAY SHOWN ON THESE PLANS.

PRELIMINARY EASEMENTS FOR UTILITY RELOCATIONS ARE APPROXIMATE ONLY AND SUBJECT TO CHANGE AS PROJECT DESIGN IS FINALIZED

CONSTRUCTION NOTES

1. VDOT STD CG-7
2. VDOT RAD. CG-7
3. VDOT STD CG-3
4. VDOT STD. MS-1A
5. HYDRAULIC CEMENT CONCRETE SIDEWALK (4")
6. VDOT STD CG-12 (TYPE B)
7. ENTRANCE GUTTER VDOT CG-9D
8. VDOT STD CG-11 ENTRANCE
9. NOT USED
10. VDOT STD. CG-2

LEGEND

- C ..... Denotes Construction Limits in Cuts
- F _ _ Denotes Construction Limits in Fills
- Denotes New Asphalt Pavement
- Denotes Variable Depth Mill and Overlay of Pavement
- Denotes Pavement Demolition

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 628
STATE PROJECT U000-133-R94
PLAN STA 111+25 - 118+50
204+50 - 207+75 300+00 - 302+75

60% PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

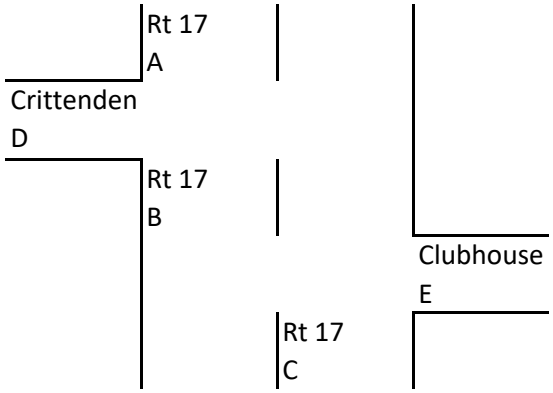
CITY PROJECT MANAGER	DRAWN BY
F. GRUBBS	DEG
DATE 08/02/19	DESIGNED BY MSM
	APPROVED BY IDJ

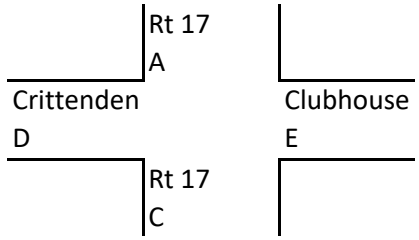
SHEET NO. 4

11x8 AM on August 06, 2019
N:\Projects\70000\478-A-Rt 17 Crittenden Rd Int PH 1 to 1000\CAD\478Sheets\0478804.dgn

			Existing		Opening Year		Avg	Build Year	
			2017		2025		Annual	2048	
	Segment	Length (mi)	ADT**	VMT	ADT**	VMT	Growth	ADT	VMT
A	Bridge Rd (Rt. 17)	0.02	17476	350	19379	388	1.3%	26082	522
B	Bridge Rd (Rt. 17)	0.08	21121	1690	23420	1874	1.3%	31522	2522
C	Bridge Rd (Rt. 17)	0.20	21121	4224	23420	4684	1.3%	31522	6304
D	Crittenden	0.20	3111	622	4667	933	5.2%	14975	2995
E	Clubhouse	0.02	660	13	660	13	0.0%	660	13

North ↑


Rt 17
A
Crittenden
D
Rt 17
B
Rt 17
C
Clubhouse
E


Rt 17
A
Crittenden
D
Rt 17
C
Clubhouse
E

		Total Intersection Peak Hour Volume					Overall Intersection LOS + Delay (sec)									
AM		Existing	No Build		Build		Existing		No Build				Build			
EW	NS	2017	2025	2048	2025	2048	2017		2025		2048		2025		2048	
Crittenden Road	Route 17	1,634	1,950	3,617			B	11.1	B	14.2	F	294.9				
Club House Drive	Route 17	1,635	1,907	3,367			A	0.8	A	0.8	B	12.1				
Crittenden/Clubhouse	Route 17				2,010	3,645							A	7.8	B	18.0

PM		Existing	No Build		Build		Existing		No Build				Build			
EW	NS	2017	2025	2048	2025	2048	2017		2025		2048		2025		2048	
Crittenden Road	Route 17	2,026	2,408	4,393			B	10.2	B	14.1	F	308.1				
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Crittenden/Clubhouse	Route 17				2,462	4,416							A	8.1	C	23.5

Notes: Does not exist in the Future Build Conditions

ERROR when v/c is greater than 3

HCM 2000

APPENDIX H: Right of Way Relocations Data

60% Design Plans

Government Records Report for Hazardous Materials

PRELIMINARY
RIGHT OF WAY DATA SHEET

PARCEL #	LANDOWNER	GPIN	SHEET NO.	PARCEL AREA	AREA (Areas will be shown in acres to 4 decimal places (x.xxxx). Areas will be shown to square feet (x,xxx).)													
					FEE TAKING		FEE REMAINDER		EASEMENTS									
									PUBLIC NOISE/ DRAINAGE		PRIVATE UTILITY		PUBLIC UTILITY		TRAFFIC CONTROL		TEMPORARY CONSTRUCTION	
				ACRES OR SQ. FEET	SQUARE FEET	ACRES	SQUARE FEET	ACRES	SQUARE FEET	ACRES	SQUARE FEET	ACRES	SQUARE FEET	ACRES	SQUARE FEET	ACRES	SQUARE FEET	ACRES
001	BETTY H. CLARKE		3	0.7400 AC.	-	0.0000 AC.	32,234	0.7400 AC.	-	0.0000 AC.		0.0000 AC.		0.0000 AC.		0.0000 AC.	1,389	0.0319 AC.
002	THE SIMONETTI REVOCABLE TRUST		3	0.8306 AC.	36,182	0.8306 AC.	0	0.0000 AC.	-	0.0000 AC.		0.0000 AC.		0.0000 AC.		0.0000 AC.	-	0.0000 AC.
003	GREYSTONE, LLC		3&4	3.0000 AC.	32,973	0.7570 AC.	97,707	2.2430 AC.	2,546	0.0585 AC.		0.0000 AC.		0.0000 AC.		0.0000 AC.	3,546	0.0814 AC.
004	WILLIAM W. PINKHAM & LINDA D. PINKHAM		4,5&7	2.8100 AC.	20,784	0.4771 AC.	101,619	2.3329 AC.	2,093	0.0480 AC.		0.0000 AC.		0.0000 AC.		0.0000 AC.	5,420	0.1244 AC.
005	TOWNEY G. KENNARD, III & HEATHER KENNARD		4&7	0.6300 AC.	-	0.0000 AC.	27,443	0.6300 AC.	-	0.0000 AC.		0.0000 AC.		0.0000 AC.		0.0000 AC.	-	0.0000 AC.
006	WILLIAM W. PINKHAM & LINDA D. PINKHAM		5&6	2.0600 AC.	-	0.0000 AC.	89,734	2.0600 AC.	1,400	0.0321 AC.		0.0000 AC.		0.0000 AC.		0.0000 AC.	1,582	0.0363 AC.
007	WILLIAM W. PINKHAM & LINDA D. PINKHAM		7	2.0500 AC.	-	0.0000 AC.	89,298	2.0500 AC.	-	0.0000 AC.		0.0000 AC.		0.0000 AC.		0.0000 AC.	326	0.0075 AC.
008	WILLIAM W. PINKHAM & LINDA D. PINKHAM		7	0.6500 AC.	-	0.0000 AC.	28,314	0.6500 AC.	-	0.0000 AC.		0.0000 AC.		0.0000 AC.		0.0000 AC.	-	0.0000 AC.
009	ALVIN B. JOHNSON & PEGGY J. JOHNSON		7	0.9100 AC.	-	0.0000 AC.	39,640	0.9100 AC.	-	0.0000 AC.		0.0000 AC.		0.0000 AC.		0.0000 AC.	-	0.0000 AC.
010	CEPCO, INC.		4	1.9100 AC.	303	0.0070 AC.	82,897	1.9030 AC.	-	0.0000 AC.		0.0000 AC.		0.0000 AC.		0.0000 AC.	-	0.0000 AC.
TOTALS				15.5906 AC.	90,242	2.0717 AC.	588,885	13.5190 AC.	6,039	0.1386 AC.	-	0.0000 AC.	-	0.0000 AC.	-	0.0000 AC.	12,262	0.28149 AC.

CITY OF SUFFOLK
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

STATE RT. 17 AND STATE RT. 628
STATE PROJECT U000-133-R94
RIGHT OF WAY DATA SHEET

60% PLANS

NOT FOR CONSTRUCTION

CLARKNEXSEN

CITY PROJECT MANAGER: F. GRUBBS
DATE: 08/02/19
DRAWN BY: DEG
DESIGNED BY: MSM
APPROVED BY: IDJ

SHEET NO. 1C

Government Records Report | 2019

Order Number: 34171

Report Generated: 09/23/2019

Project Name: Crittenden Road / Route 17

Project Number: 17130

Crittenden Road / Route 17
Crittenden Road
Suffolk, VA 23433

2 Corporate Drive
Suite 450
Shelton, CT 06484
Toll Free: 866-211-2028
www.envirositecorp.com

Table of Contents 2019

Envirosite Corporation has conducted a search of all reasonably ascertainable records in accordance with EPA's AAI (40 CFR Part 312) requirements and the ASTM E-1527-13 Environmental Site Assessments standard.

SUBJECT PROPERTY INFORMATION:

ADDRESS:

Crittenden Road / Route 17
Crittenden Road
Suffolk, VA 23433

COORDINATES:

Latitude (North):	36.901183 - 36°54'4.3"
Longitude (West):	-76.497765 - -76°29'52"
Universal Transverse Mercator:	Zone 18N
UTM X (Meters):	366558.19
UTM Y (Meters):	4084957.71

ELEVATION:

Elevation:	22.641 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH SUBJECT PROPERTY:

Subject Property Map: 36076-H4 Newport News South, VA
Most Recent Revision: 2016

Subject Property Map: 36076-H5 Benns Church, VA
Most Recent Revision: 2016

MAP ID	SITE NAME	ADDRESS	DATABASE(S)	RELATIVE ELEVATION	DIRECTION / DISTANCE
1	Davis Richard and Dorothy Property	8780 Crittenden Rd	LPT - VA, TRO LUST - VA		SP
2	KEROSENE - BRIDGE RD-CRITTENDEN...	1747 BRIDGE RD., AND 1608...	SPILLS - VA		SP
3	SMITHFIELD GARDENS	1869 BRIDGE RD	LPT - VA, TRO LUST - VA	Higher	ESE / 0.013 mi.
4	WERMER RESIDENCE	8808 CARTERS COVE RD	LPT - VA, TRO LUST - VA	Lower	NNW / 0.139 mi.
5	CEDAR POINT GOLF COURSE	8056 CLUBHOUSE DR	LPT - VA, TRO LUST - VA	Lower	E / 0.312 mi.
6	VIOLA RESIDENCE	8520 CRITTENDEN RD	LPT - VA, TRO LUST - VA	Higher	WSW / 0.397 mi.
7	ANDERSON CHARLES AND SKYE RESI...	1612 STEEPLE DR	LPT - VA, TRO LUST - VA	Lower	N / 0.445 mi.

SUBJECT PROPERTY SEARCH RESULTS:

The subject property was identified in the following records. For more information on this property, see Map Findings section on page 16.

SITE	DATABASE(S)	EPA ID
Davis Richard and Dorothy Property 8780 Crittenden Rd Suffolk, VA 23433	LPT - VA, TRO LUST - VA	N/R
LPT - VA - ID: Facility ID 200000208962 - ID: PC Number 20035064	Status: N/A Status: Closed	Date: N/A Date: 04/11/2003
TRO LUST - VA - ID: Facility ID 200000208962 - ID: PC Number 20035064	Status: N/A Status: Closed	Date: N/A Date: 04/11/2003
KEROSENE - BRIDGE RD-CRITTENDEN RD 1747 BRIDGE RD., AND 1608 CORNUS DR., SUFFOLK, VA	SPILLS - VA	N/R
SPILLS - VA - ID: 2014-T-0202	Status: Closed	Date: 08/26/2013

SEARCH RESULTS:

STATE AND TRIBAL LEAKING STORAGE TANK LISTS

LPT - VA: Petroleum Storage tanks with known releases **6 SITES FOUND WITHIN .5 MILE**

EQUAL/HIGHER ELEVATION

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
3	*SMITHFIELD GARDENS*	*1869 BRIDGE RD*	*ESE / 0.013 mi.*	*19*
	- ID: Facility ID 200000884197 - ID: PC Number 20175197	Status: N/A Status: Closed	Date: N/A Date: 05/30/2017	
6	*VIOLA RESIDENCE*	*8520 CRITTENDEN RD*	*WSW / 0.397 mi.*	*23*
	- ID: Facility ID 200000067562 - ID: PC Number 19992213	Status: N/A Status: Closed	Date: N/A Date: 08/31/1998	

LOWER ELEVATION

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
4	*WERMER RESIDENCE*	*8808 CARTERS COVE RD*	*NNW / 0.139 mi.*	*20*
	- ID: Facility ID 200000886156 - ID: PC Number 20185130	Status: N/A Status: Closed	Date: N/A Date: 03/29/2018	
5	*CEDAR POINT GOLF COURSE*	*8056 CLUBHOUSE DR*	*E / 0.312 mi.*	*21*
	- ID: Facility ID 200000064451 - ID: PC Number 20035173	Status: N/A Status: Closed	Date: N/A Date: 06/23/2003	
7	*ANDERSON CHARLES AND SKYE RESIDENCE*	*1612 STEEPLE DR*	*N / 0.445 mi.*	*24*
	- ID: Facility ID 200000888490 - ID: PC Number 20195149	Status: N/A Status: Open	Date: N/A Date: N/R	

STATE AND TRIBAL LEAKING STORAGE TANK LISTS *(cont.)*

TRO LUST - VA: Tidewater Regional Office: Leaking Underground Storage Tanks **6 SITES FOUND WITHIN .5 MILE**

EQUAL/HIGHER ELEVATION

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
3	*SMITHFIELD GARDENS*	*1869 BRIDGE RD*	*ESE / 0.013 mi.*	*19*
	- ID: Facility ID 200000884197	Status: N/A	Date: N/A	
	- ID: PC Number 20175197	Status: Closed	Date: 05/30/2017	
6	*VIOLA RESIDENCE*	*8520 CRITTENDEN RD*	*WSW / 0.397 mi.*	*23*
	- ID: Facility ID 200000067562	Status: N/A	Date: N/A	
	- ID: PC Number 19992213	Status: Closed	Date: 08/31/1998	

LOWER ELEVATION

MAP ID	SITE NAME	SITE ADDRESS	DIRECTION/DISTANCE	PAGE
4	*WERMER RESIDENCE*	*8808 CARTERS COVE RD*	*NNW / 0.139 mi.*	*20*
	- ID: Facility ID 200000886156	Status: N/A	Date: N/A	
	- ID: PC Number 20185130	Status: Closed	Date: 03/29/2018	
5	*CEDAR POINT GOLF COURSE*	*8056 CLUBHOUSE DR*	*E / 0.312 mi.*	*21*
	- ID: Facility ID 200000064451	Status: N/A	Date: N/A	
	- ID: PC Number 20035173	Status: Closed	Date: 06/23/2003	
7	*ANDERSON CHARLES AND SKYE RESIDENCE*	*1612 STEEPLE DR*	*N / 0.445 mi.*	*24*
	- ID: Facility ID 200000888490	Status: N/A	Date: N/A	
	- ID: PC Number 20195149	Status: Open	Date: N/R	

Following sites were unable to be mapped.

SITE NAME:	ADDRESS, CITY, ZIP:	DATABASE(S):
ART RAY CORPORATION DEBRIS LANDFILL	N/R	SWF/LF - VA
DOGWOOD RUN	CORNER OF ROUTE 17 AND STATE..., SUFFOLK	SPILLS - VA
EMPIRE BRUSH, SUFFOLK (ARCHIVE FILE ...	N/R, SUFFOLK	ARCHIVED VRP - VA, HIST VRP - VA
GOODWIN JUNK YARD	N/R, SUFFOLK	ARCHIVED VRP - VA, HIST VRP - VA
MOTOR OIL RELEASE - MVA	INTERSECTION OF COLLEGE DR A..., SUFFOLK	SPILLS - VA
NANSEMOND ORDNANCE DEPOT	N/R, SUFFOLK	FUDS
NIKE N-63 (SUFFOLK)	N/R, SUFFOLK	FUDS
OFF CRITTENDEN ROAD	N/R	ARCHIVED SPILLS - VA
PRILLAMAN CHEMICAL (ARCHIVE FILE BOX...	N/R, SUFFOLK	ARCHIVED VRP - VA, HIST VRP - VA
SANDY BOTTOM MATERIAL CO	CRITTENDEN RD	ARCHIVED SPILLS - VA
SCHAUBACH PROPERTY	CRITTENDEN ROAD & MACEDONIA AVE	ARCHIVED SPILLS - VA
SOUTHERN STATES, CORP. INC., SUFFOLK...	N/R, SUFFOLK	ARCHIVED VRP - VA, HIST VRP - VA
SUFFOLK GAS CORPORATION, HILL STREE...	HILL STREET, SUFFOLK	ARCHIVED VRP - VA, HIST VRP - VA
VIRGINIA SOIL RECLAMATION	N/R	SWF/LF - VA

DATABASE(S) WITH NO MAPPED SITES:

FEDERAL RCRA NON-CORRACTS TSD FACILITIES LIST

ARCHIVED RCRA TSDF	Archived Resource Conservation and Recovery Act: Treatment Storage and Disposal Facilities
RCRA_TSDF	Resource Conservation and Recovery Act: Treatment Storage and Disposal Facilities

FEDERAL CERCLIS LIST

CERCLIS NFRAP	Comprehensive Environmental Response Compensation and Liability Act No Further Remedial Action Planned
CERCLIS-HIST	Comprehensive Environmental Response Compensation and Liability Act
FEDERAL FACILITY	Federal Facility sites
SEMS_8R_ACTIVE SITES	Sites on SEMS Active Site Inventory
SEMS_8R_ARCHIVED SITES	Sites on SEMS Archived Site Inventory

FEDERAL RCRA CORRACTS FACILITIES LIST

CORRACTS	Hazardous Waste Corrective Action
HIST CORRACTS 2	Historical Hazardous Waste Corrective Action

FEDERAL DELISTED NPL SITE LIST

DELISTED NPL	Delisted National Priority List
DELISTED PROPOSED NPL	Delisted proposed National Priority List
SEMS_DELETED NPL	Sites Deleted from National Priorities List

FEDERAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS

EPA LF MOP	EPA Landfill Methane Outreach Project Database

FEDERAL ERNS LIST

ERNS	Emergency Response Notification System

FEDERAL RCRA GENERATORS LIST

HIST RCRA_CESQG	Historical Resource Conservation and Recovery Act_Conditionally Exempt Small Quantity Generators
HIST RCRA_LQG	Historical Resource Conservation and Recovery Act_ Large Quantity Generators
HIST RCRA_NONGEN	Historical Resource Conservation and Recovery Act_Non Generators
HIST RCRA_SQG	Historical Resource Conservation and Recovery Act_Small Quantity Generators
RCRA_LQG	Resource Conservation and Recovery Act_ Large Quantity Generators
RCRA_NONGEN	Resource Conservation and Recovery Act_Non Generators
RCRA_SQG	Resource Conservation and Recovery Act_Small Quantity Generators
RCRA_VSQG	Resource Conservation and Recovery Act_Very Small Quantity Generator

FEDERAL NPL SITE LIST

NPL	National Priority List
NPL EPA R1 GIS	GIS for EPA Region 1 NPL
NPL EPA R3 GIS	GIS for EPA Region 3 NPL
NPL EPA R6 GIS	GIS for EPA Region 6 NPL
NPL EPA R8 GIS	GIS for EPA Region 8 NPL
NPL EPA R9 GIS	GIS for EPA Region 9 NPL
PART NPL	Part National Priority List
PROPOSED NPL	Proposed National Priority List
SEMS_FINAL NPL	Sites included on the Final National Priorities List
SEMS_PROPOSED NPL	Sites Proposed to be Added to the National Priorities List

FEDERAL INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES

RCRA IC_EC	RCRA sites with Institutional and Engineering Controls
FED E C	Engineering Controls
FED I C	Institutional Controls

STATE AND TRIBAL REGISTERED STORAGE TANK LISTS

FEMA UST	FEMA Underground Storage Tanks
INDIAN UST R1	Underground Storage Tanks on Indian Land in EPA Region 1
INDIAN UST R10	Underground Storage Tanks on Indian Land in EPA Region 10
INDIAN UST R2	Underground Storage Tanks on Indian Land in EPA Region 2
INDIAN UST R4	Underground Storage Tanks on Indian Land in EPA Region 4
INDIAN UST R5	Underground Storage Tanks on Indian Land in EPA Region 5
INDIAN UST R6	Underground Storage Tanks on Indian Land in EPA Region 6

STATE AND TRIBAL REGISTERED STORAGE TANK LISTS *(cont.)*

INDIAN UST R7	Underground Storage Tanks on Indian Land in EPA Region 7
INDIAN UST R8	Underground Storage Tanks on Indian Land in EPA Region 8
INDIAN UST R9	Underground Storage Tanks on Indian Land in EPA Region 9
AST - VA	Aboveground Storage Tanks
UST - VA	Underground Storage Tanks

STATE AND TRIBAL LEAKING STORAGE TANK LISTS

INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land in EPA Region 1
INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land in EPA Region 10
INDIAN LUST R2	Leaking Underground Storage Tanks on Indian Land in EPA Region 2
INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land in EPA Region 4
INDIAN LUST R5	Leaking Underground Storage Tanks on Indian Land in EPA Region 5
INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land in EPA Region 6
INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land in EPA Region 7
INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land in EPA Region 8
INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land in EPA Region 9
HIST LPT - VA	Historical Leaking Petroleum Storage Tanks
PRO LUST - VA	Leaking Underground Storage Tanks
SWRO LPT - VA	Leaking Petroleum Storage Tanks
VRO LUST - VA	Leaking Underground Storage Tanks

STATE AND TRIBAL BROWNFIELD SITES

TRIBAL BROWNFIELDS	Tribal Brownfields
BROWNFIELDS - VA	Brownfield

STATE AND TRIBAL VOLUNTARY CLEANUP SITES

ARCHIVED VRP - VA	Archived Voluntary Remediation Program
HIST VRP - VA	Historical Voluntary Remediation Program
VRP - VA	Voluntary Remediation Program

STATE INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES

HIST I C - VA	Historical Institutional Controls
I C - VA	Institutional Controls

STATE AND TRIBAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS

SWF/LF - VA	Solid Waste Facilities and Landfills

LOCAL BROWNFIELD LISTS

BROWNFIELDS-ACRES	EPA ACRES Brownfields
FED BROWNFIELDS	Federal Brownfields

LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES

FED CDL	DOJ Clandestine Drug Labs
US HIST CDL	Historical Clandestine Drug Labs

LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES

HIST INDIAN ODI R8	Historical Open Dump Inventory
INDIAN ODI R8	Open Dump Inventory
ODI	Open Dump Inventory
TRIBAL ODI	Indian Open Dump Inventory Sites

RECORDS OF EMERGENCY RELEASE REPORTS

HMIRS (DOT)	Hazardous Materials Information Reporting Systems
ARCHIVED SPILLS - VA	Archived Spills

LOCAL LAND RECORDS

LIENS 2	CERCLA Lien Information

OTHER ASCERTAINABLE RECORDS

AFS	Air Facility Systems
ALT FUELING	Alternative Fueling Stations

OTHER ASCERTAINABLE RECORDS *(cont.)*

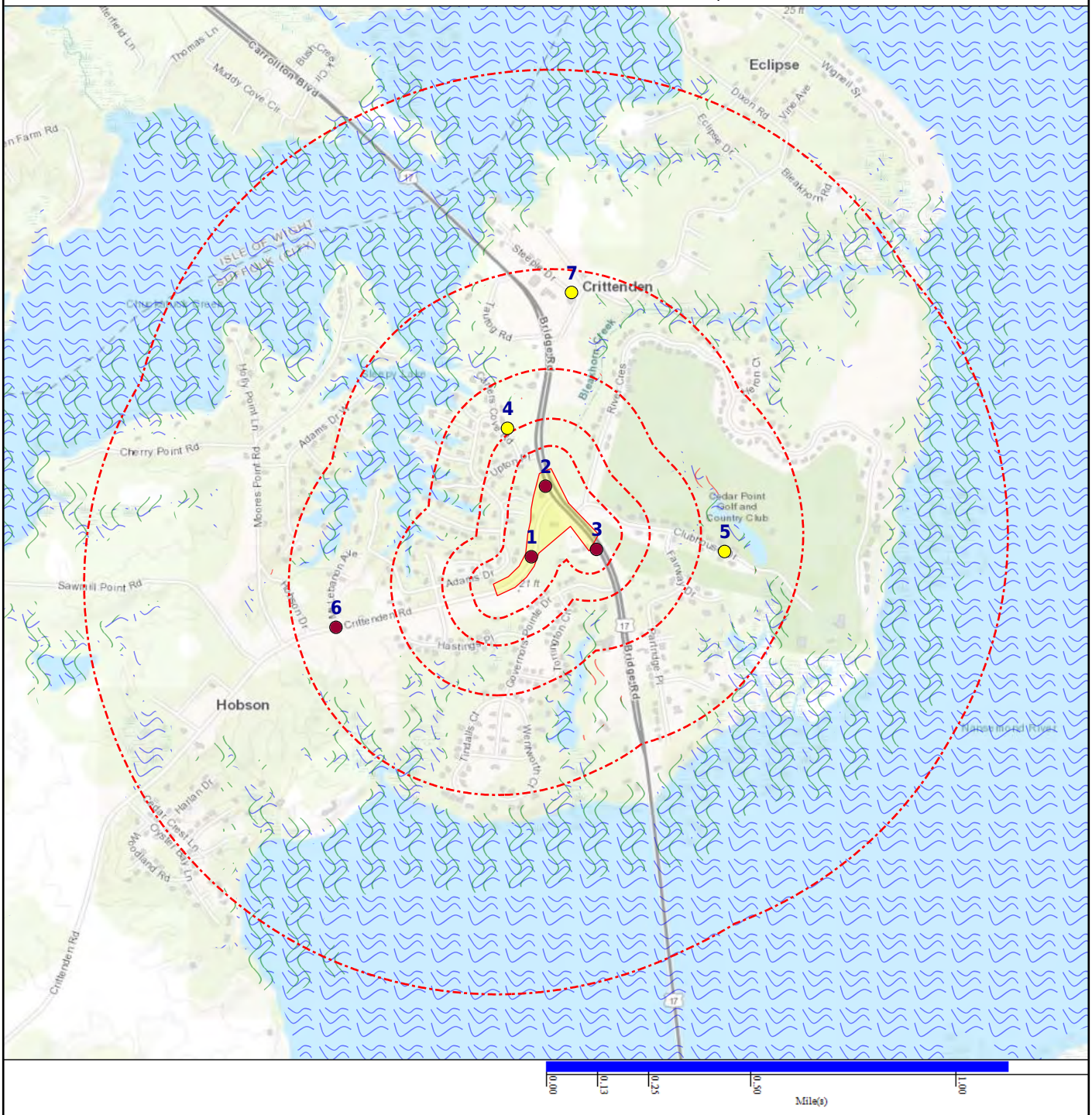
BRS	Biennial Reporting Systems
CDC HAZDAT	Hazardous Substance Release and Health Effects Information
COAL ASH DOE	Coal Ash: Department of Energy
COAL ASH EPA	Coal Ash: Environmental Protection Agency
COAL GAS	Coal Gas Plants
CONSENT (DECREES)	Superfund Consent Decree
DEBRIS R5 LF	Disaster Debris Landfill Data
DEBRIS R5 SWRCY	Disaster Debris Recovery Data
DOD	Department of Defense
DOT OPS	Department of Transportation Office of Pipeline Safety
ECHO	EPA Enforcement and Compliance History Online
ENOI	Electronic Notice of Intent
EPA FUELS	EPA Fuels Registration, Reporting, and Compliance List
EPA OSC	EPA On-Site Coordinator
EPA WATCH	EPA Watch List
FA HWF	Financial Assurance for Hazardous Waste Facilities
FEDLAND	Federal Lands
FRS	Facility Index Systems
FTTS	FIFRA/TSCA Tracking System
FTTS INSP	FIFRA/TSCA Tracking System: Inspections
FUDS	Formerly Used Defense Sites
HIST AFS	Historical Air Facility Systems
HIST AFS 2	Historical Air Facility Systems
HIST DOD	Department of Defense historical sites
HIST LEAD_SMELTER	Historical Lead Smelter Sites
HIST MLTS	Historical Material Licensing Tracking Systems
HIST PCB TRANS	Historical Polychlorinated Biphenyl (PCB) Facilities
HIST PCS ENF	Historical Enforced Permit Compliance Facilities
HIST PCS FACILITY	Historical Permit Compliance Facilities
HIST SSTS	Historical Section 7 Tracking Systems
HWC DOCKET	Hazardous Waste Compliance Docket
ICIS	Integrated Compliance Information System
INACTIVE PCS	Inactive Permit Compliance Facilities
INDIAN RESERVATION	Indian Reservations
LUCIS	Land Use Control Information Systems
LUCIS 2	Land Use Control Information Systems 2
MINES	Mines
MINES USGS	Mines list from USGS
MLTS	Material Licensing Tracking Systems
NPL AOC	Areas related to NPL remediation sites
NPL LIENS	National Priority List Liens
OSHA	Occupational Safety & Health Administration
PADS	PCB Activity Database Systems
PCB TRANSFORMER	Polychlorinated Biphenyl (PCB) Waste
PCS ENF	Enforced Permit Compliance Facilities
PCS FACILITY	Permit Compliance Facilities
RAATS	RCRA Administrative Action Tracking Systems
RADINFO	Radiation Information Systems
RMP	Risk Management Plans
ROD	Record of Decision
SCRD DRYCLEANERS	SCRD Drycleaners
SEMS_SMELTER	Sites on SEMS Potential Smelter Activity
SSTS	Section 7 Tracking Systems
STORMWATER	Storm Water Permits
TOSCA-PLANT	Toxic Substance Control Act: Plants
TRIS	Toxic Release Inventory Systems
UMTRA	Uranium Mill Tailing Sites
VAPOR	EPA Vapor Intrusion

OTHER ASCERTAINABLE RECORDS *(cont.)*

CORRECTIVE ACTIONS_2020	Wastes - Hazardous Waste - Corrective Action
AIRS - VA	Air Permits
CEDS - VA	Comprehensive Environmental Data System
DAYCARE - VA	Child Care
DRYCLEANERS - VA	Drycleaners
ENF - VA	Enforcement Actions Data
HIST DRYCLEANERS - VA	Historical Drycleaners

SUBJECT NAME: Crittenden Road / Route 17
ADDRESS: Crittenden Road, Suffolk, VA 23433
LAT/LONG: 36.901183 / -76.497765

PREPARED FOR: MAP Environmental Inc
ORDER #: 34171
REPORT DATE: September 23, 2019



- Subject Property
- Equal/Higher Elevation
- Lower Elevation
- CDC HAZDAT (No Data)
- Department of Defense (No Data)
- DFIRM Floodzone 100
- DFIRM Floodzone 500
- Federal Lands (No Data)
- FEMA FloodZone 100 (No Data)
- FEMA FloodZone 500 (No Data)
- Historical DOD (No Data)
- Indian Reservation (No Data)
- National Priority List (No Data)
- NWI

SUBJECT NAME: Crittenden Road / Route 17
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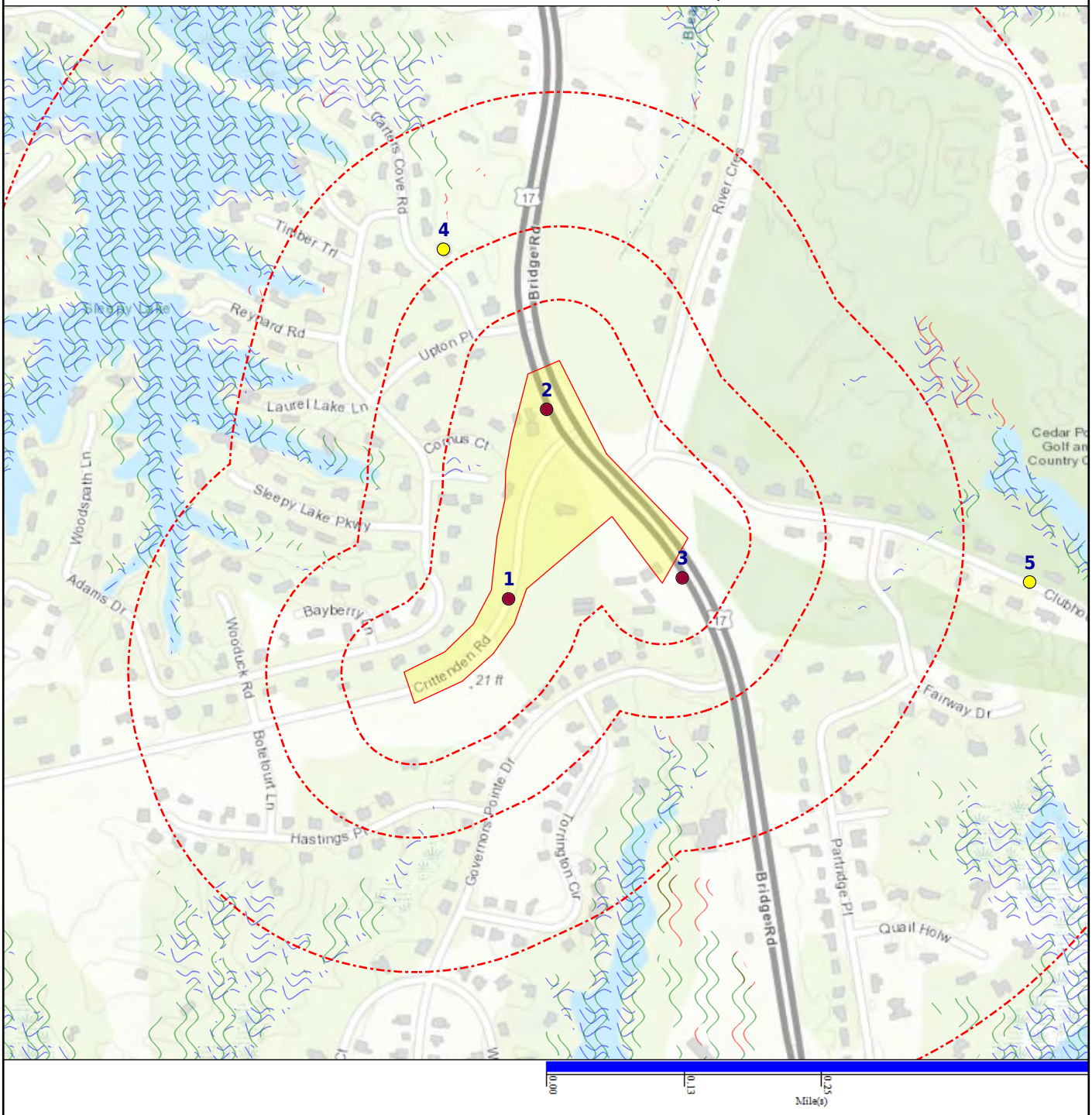


- Subject Property
- Department of Defense (No Data)
- FEMA FloodZone 100 (No Data)
- National Priority List (No Data)
- Equal/Higher Elevation
- DFIRM Floodzone 100
- FEMA FloodZone 500 (No Data)
- NWI
- Lower Elevation
- DFIRM Floodzone 500
- Historical DOD (No Data)
- CDC HAZDAT (No Data)
- Federal Lands (No Data)
- Indian Reservation (No Data)

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
FEDERAL RCRA NON-CORRACTS TSD FACILITIES LIST								
ARCHIVED RCRA TSDF		0.500	0	0	0	--	--	0
RCRA_TSDF		0.500	0	0	0	--	--	0
FEDERAL CERCLIS LIST								
CERCLIS NFRAP		0.500	0	0	0	--	--	0
CERCLIS-HIST		0.500	0	0	0	--	--	0
FEDERAL FACILITY		1.000	0	0	0	0	--	0
SEMS_8R_ACTIVE SITES		0.500	0	0	0	--	--	0
SEMS_8R_ARCHIVED SITES		0.500	0	0	0	--	--	0
FEDERAL RCRA CORRACTS FACILITIES LIST								
CORRACTS		1.000	0	0	0	0	--	0
HIST CORRACTS 2		1.000	0	0	0	0	--	0
FEDERAL DELISTED NPL SITE LIST								
DELISTED NPL		1.000	0	0	0	0	--	0
DELISTED PROPOSED NPL		1.000	0	0	0	0	--	0
SEMS_DELETED NPL		1.000	0	0	0	0	--	0
FEDERAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS								
EPA LF MOP		0.500	0	0	0	--	--	0
FEDERAL ERNS LIST								
ERNS		SP	0	--	--	--	--	0
FEDERAL RCRA GENERATORS LIST								
HIST RCRA_CESQG		0.250	0	0	--	--	--	0
HIST RCRA_LQG		0.250	0	0	--	--	--	0
HIST RCRA_NONGEN		0.250	0	0	--	--	--	0
HIST RCRA_SQG		0.250	0	0	--	--	--	0
RCRA_LQG		0.250	0	0	--	--	--	0
RCRA_NONGEN		0.250	0	0	--	--	--	0
RCRA_SQG		0.250	0	0	--	--	--	0
RCRA_VSQG		0.250	0	0	--	--	--	0
FEDERAL NPL SITE LIST								
NPL		1.000	0	0	0	0	--	0
NPL EPA R1 GIS		1.000	0	0	0	0	--	0
NPL EPA R3 GIS		1.000	0	0	0	0	--	0
NPL EPA R6 GIS		1.000	0	0	0	0	--	0

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
FEDERAL NPL SITE LIST *(cont.)*								
NPL EPA R8 GIS		1.000	0	0	0	0	--	0
NPL EPA R9 GIS		1.000	0	0	0	0	--	0
PART NPL		1.000	0	0	0	0	--	0
PROPOSED NPL		1.000	0	0	0	0	--	0
SEMS_FINAL NPL		1.000	0	0	0	0	--	0
SEMS_PROPOSED NPL		1.000	0	0	0	0	--	0
FEDERAL INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES								
RCRA IC_EC		0.250	0	0	--	--	--	0
FED E C		0.500	0	0	0	--	--	0
FED I C		0.500	0	0	0	--	--	0
STATE AND TRIBAL REGISTERED STORAGE TANK LISTS								
FEMA UST		0.250	0	0	--	--	--	0
INDIAN UST R1		0.250	0	0	--	--	--	0
INDIAN UST R10		0.250	0	0	--	--	--	0
INDIAN UST R2		0.250	0	0	--	--	--	0
INDIAN UST R4		0.250	0	0	--	--	--	0
INDIAN UST R5		0.250	0	0	--	--	--	0
INDIAN UST R6		0.250	0	0	--	--	--	0
INDIAN UST R7		0.250	0	0	--	--	--	0
INDIAN UST R8		0.250	0	0	--	--	--	0
INDIAN UST R9		0.250	0	0	--	--	--	0
AST - VA		0.250	0	0	--	--	--	0
UST - VA		0.250	0	0	--	--	--	0
STATE AND TRIBAL LEAKING STORAGE TANK LISTS								
INDIAN LUST R1		0.500	0	0	0	--	--	0
INDIAN LUST R10		0.500	0	0	0	--	--	0
INDIAN LUST R2		0.500	0	0	0	--	--	0
INDIAN LUST R4		0.500	0	0	0	--	--	0
INDIAN LUST R5		0.500	0	0	0	--	--	0
INDIAN LUST R6		0.500	0	0	0	--	--	0
INDIAN LUST R7		0.500	0	0	0	--	--	0
INDIAN LUST R8		0.500	0	0	0	--	--	0
INDIAN LUST R9		0.500	0	0	0	--	--	0
HIST LPT - VA		0.500	0	0	0	--	--	0
LPT - VA	X	0.500	1	1	3	--	--	6

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
STATE AND TRIBAL LEAKING STORAGE TANK LISTS *(cont.)*								
PRO LUST - VA		0.500	0	0	0	--	--	0
SWRO LPT - VA		0.500	0	0	0	--	--	0
TRO LUST - VA	X	0.500	1	1	3	--	--	6
VRO LUST - VA		0.500	0	0	0	--	--	0
STATE AND TRIBAL BROWNFIELD SITES								
TRIBAL BROWNFIELDS		0.500	0	0	0	--	--	0
BROWNFIELDS - VA		0.500	0	0	0	--	--	0
STATE AND TRIBAL VOLUNTARY CLEANUP SITES								
ARCHIVED VRP - VA		0.500	0	0	0	--	--	0
HIST VRP - VA		0.500	0	0	0	--	--	0
VRP - VA		0.500	0	0	0	--	--	0
STATE INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES								
HIST I C - VA		0.500	0	0	0	--	--	0
I C - VA		0.500	0	0	0	--	--	0
STATE AND TRIBAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS								
SWF/LF - VA		0.500	0	0	0	--	--	0
LOCAL BROWNFIELD LISTS								
BROWNFIELDS-ACRES		0.500	0	0	0	--	--	0
FED BROWNFIELDS		0.500	0	0	0	--	--	0
LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES								
FED CDL		SP	0	--	--	--	--	0
US HIST CDL		SP	0	--	--	--	--	0
LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES								
HIST INDIAN ODI R8		0.500	0	0	0	--	--	0
INDIAN ODI R8		0.500	0	0	0	--	--	0
ODI		0.500	0	0	0	--	--	0
TRIBAL ODI		0.500	0	0	0	--	--	0
RECORDS OF EMERGENCY RELEASE REPORTS								
HMIRS (DOT)		SP	0	--	--	--	--	0
ARCHIVED SPILLS - VA		0.125	0	--	--	--	--	0
SPILLS - VA	X	0.125	0	--	--	--	--	1

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
LOCAL LAND RECORDS								
LIENS 2		SP	0	--	--	--	--	0
OTHER ASCERTAINABLE RECORDS								
AFS		SP	0	--	--	--	--	0
ALT FUELING		0.250	0	0	--	--	--	0
BRS		SP	0	--	--	--	--	0
CDC HAZDAT		1.000	0	0	0	0	--	0
COAL ASH DOE		0.500	0	0	0	--	--	0
COAL ASH EPA		0.500	0	0	0	--	--	0
COAL GAS		1.000	0	0	0	0	--	0
CONSENT (DECREES)		1.000	0	0	0	0	--	0
DEBRIS R5 LF		0.500	0	0	0	--	--	0
DEBRIS R5 SWRCY		0.500	0	0	0	--	--	0
DOD		1.000	0	0	0	0	--	0
DOT OPS		SP	0	--	--	--	--	0
ECHO		SP	0	--	--	--	--	0
ENOI		SP	0	--	--	--	--	0
EPA FUELS		SP	0	--	--	--	--	0
EPA OSC		0.125	0	--	--	--	--	0
EPA WATCH		SP	0	--	--	--	--	0
FA HWF		SP	0	--	--	--	--	0
FEDLAND		1.000	0	0	0	0	--	0
FRS		SP	0	--	--	--	--	0
FTTS		SP	0	--	--	--	--	0
FTTS INSP		SP	0	--	--	--	--	0
FUDS		1.000	0	0	0	0	--	0
HIST AFS		SP	0	--	--	--	--	0
HIST AFS 2		SP	0	--	--	--	--	0
HIST DOD		1.000	0	0	0	0	--	0
HIST LEAD_SMELTER		SP	0	--	--	--	--	0
HIST MLTS		SP	0	--	--	--	--	0
HIST PCB TRANS		SP	0	--	--	--	--	0
HIST PCS ENF		SP	0	--	--	--	--	0
HIST PCS FACILITY		SP	0	--	--	--	--	0
HIST SSTS		SP	0	--	--	--	--	0
HWC DOCKET		SP	0	--	--	--	--	0
ICIS		SP	0	--	--	--	--	0

DATABASE	SUBJECT PROPERTY	SEARCH DISTANCE (MILES)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	TOTAL MAPPED
OTHER ASCERTAINABLE RECORDS *(cont.)*								
INACTIVE PCS		SP	0	--	--	--	--	0
INDIAN RESERVATION		1.000	0	0	0	0	--	0
LUCIS		0.500	0	0	0	--	--	0
LUCIS 2		0.500	0	0	0	--	--	0
MINES		0.250	0	0	--	--	--	0
MINES USGS		0.250	0	0	--	--	--	0
MLTS		SP	0	--	--	--	--	0
NPL AOC		1.000	0	0	0	0	--	0
NPL LIENS		SP	0	--	--	--	--	0
OSHA		SP	0	--	--	--	--	0
PADS		SP	0	--	--	--	--	0
PCB TRANSFORMER		SP	0	--	--	--	--	0
PCS ENF		SP	0	--	--	--	--	0
PCS FACILITY		SP	0	--	--	--	--	0
RAATS		SP	0	--	--	--	--	0
RADINFO		SP	0	--	--	--	--	0
RMP		0.500	0	0	0	--	--	0
ROD		1.000	0	0	0	0	--	0
SCRD DRYCLEANERS		0.250	0	0	--	--	--	0
SEMS_SMELTER		SP	0	--	--	--	--	0
SSTS		SP	0	--	--	--	--	0
STORMWATER		SP	0	--	--	--	--	0
TOSCA-PLANT		SP	0	--	--	--	--	0
TRIS		SP	0	--	--	--	--	0
UMTRA		0.500	0	0	0	--	--	0
VAPOR		0.500	0	0	0	--	--	0
CORRECTIVE ACTIONS_2020		0.500	0	0	0	--	--	0
AIRS - VA		SP	0	--	--	--	--	0
CEDS - VA		SP	0	--	--	--	--	0
DAYCARE - VA		SP	0	--	--	--	--	0
DRYCLEANERS - VA		0.250	0	0	--	--	--	0
ENF - VA		SP	0	--	--	--	--	0
HIST DRYCLEANERS - VA		0.250	0	0	--	--	--	0

Map Id: 1
Direction:
Distance:
Actual: Not Available
Elevation:
Relative:

Site Name : Davis Richard and Dorothy Property
8780 Crittenden Rd
Suffolk, VA 23433

Database(s) : [LPT - VA, TRO LUST - VA]

Envirosite ID: 534727
EPA ID: N/R

LPT - VA

Facility Name :	Davis Richard and Dorothy Property
Facility Address :	8780 Crittenden Rd, Suffolk, VA 23433
County :	Suffolk City
Release Reported :	12/30/2002
PC Number :	20035064
CEDS Facility ID :	200000208962
Case Status :	Closed
Case Closed Date :	04/11/2003
Region :	TRO
Program :	RP Lead
Heating Oil Category :	N/R
Federally Regulated UST :	N
Regulated Petroleum UST (1) :	N
Excluded UST (1) :	N
Deferred UST (1) :	N
Partially Deferred UST (1) :	N
Exempt 1 UST (2) :	Y
Exempt 2 Heating Oil UST (2) :	N
Small Heating Oil AST (2) :	N
Regulated AST (3) :	Y
Unregulated AST (3) :	N
Other (Y/N) :	N
Other Description :	N/R
Unknown (Y/N) :	N
Priority :	3
Suspect Confirm Indicator :	Confirmed
Latitude :	36.89152133
Longitude :	-76.49951251
Last Date in Agency List :	08/22/2019

TRO LUST - VA

Facility Name :	Davis Richard and Dorothy Property
Facility Address :	8780 Crittenden Rd, Suffolk, VA 23433
County :	Suffolk City
Release Reported :	12/30/2002
PC Number :	20035064
CEDS Facility ID :	200000208962
Case Status :	Closed
Case Closed Date :	04/11/2003
Region :	TRO
Program :	RP Lead
Heating Oil Category :	N/R
Federally Regulated UST :	N
Regulated Petroleum UST (1) :	N
Excluded UST (1) :	N
Deferred UST (1) :	N
Partially Deferred UST (1) :	N
Exempt 1 UST (2) :	Y
Exempt 2 Heating Oil UST (2) :	N
Small Heating Oil AST (2) :	N
Regulated AST (3) :	Y
Unregulated AST (3) :	N

Map Id: 1
Direction:
Distance:
Actual: Not Available
Elevation:
Relative:

Site Name : Davis Richard and Dorothy Property
8780 Crittenden Rd
Suffolk, VA 23433

Database(s) : [LPT - VA, TRO LUST - VA] ***(cont.)***

Envirosite ID: 534727
EPA ID: N/R

TRO LUST - VA ***(cont.)***

Other (Y/N) :	N
Other Description :	N/R
Unknown (Y/N) :	N
Priority :	3
Suspect Confirm Indicator :	Confirmed
Latitude :	36.89152133
Longitude :	-76.49951251
Last Date in Agency List :	08/22/2019

Map Id: 2
Direction:
Distance:
Actual: Not Available
Elevation:
Relative:

Site Name : KEROSENE - BRIDGE RD-CRITTENDEN RD
1747 BRIDGE RD., AND 1608 CORNUS DR.,
SUFFOLK, VA

Database(s) : [SPILLS - VA]

Envirosite ID: 354195891
EPA ID: N/R

SPILLS - VA

Facility Name :	Kerosene - Bridge Rd-Crittenden Rd
Facility Address :	1747 Bridge Rd., and 1608 Cornus Dr., Suffolk, VA
County :	Suffolk City
Incident Date :	07/16/2013
Call Received Date :	07/16/2013
Closure Date :	08/26/2013
IR Number :	2014-T-0202
Associated IR :	N/R
Reference ID :	20314
Status :	Closed
Facility Name :	N/R
Region :	Tidewater
Incident Type :	Air * Water
Incident Subtype :	Air * Water
Threat to :	Ground Water
Terrorism (Y/N) :	N
Characterize Incident :	Accidental
Materials :	Kerosene (0-0 Unknown)
Effect to Receptor :	Impacted
Water Body :	Nansemond River/James River
Low Quantity to Water :	N/R
High Quantity to Water :	N/R
Quantity Units :	N/R
Other Receptors :	N/R
RP Company :	N/R
RP Name :	N/R
Property Owner :	N/R
Property Company :	N/R
Duration of Event (Hours) :	0
Impacts :	N/R
Other Impacts :	N/R

Map Id: 2
Direction:
Distance:
Actual: Not Available
Elevation:
Relative:

Site Name : KEROSENE - BRIDGE RD-CRITTENDEN RD
1747 BRIDGE RD., AND 1608 CORNUS DR.,
SUFFOLK, VA

Database(s) : [SPILLS - VA] ***(cont.)***

Envirosite ID: 354195891
EPA ID: N/R

SPILLS - VA ***(cont.)***

Steps Taken :	N/R
Steps Taken Description :	N/R
System Components :	N/R
Other System Components :	N/R
Cause of Event :	N/R
Corrective Action Taken :	N/R
Weather Status :	N/R
Precipitation (Wet) :	0
Discharge Type :	N/R
Discharge Volume :	0
Unknown Discharge (Y/N) :	N
Original Call Incident Description :	spraying and pouring of kerosene into the air and ground for the purpose of killing ornamental plants between a business and a private residence. we are the business involved. we are located on a peninsula between the Nansemond and James rivers. The air is unbreathable and surely the ground water has been affected.
Original Call Material Description :	N/R
Original Call Location Description :	1747 Bridge Rd., and 1608 Cornus Dr., at the intersection of Bridge Rd. and Crittenden Rd., Suffolk, Va.
Incident Ongoing at Time of Call :	Y
Agencies Notified (Y/N) :	N
Other Agencies :	N/R
Permitted (Y/N) :	N
Call Reported by Name :	Bonnie Billue
Call Reported by Company Name :	Dogwood Run
Call RP Company Name :	N/R
Call RP Name :	N/R
Call Property Owner Company Name :	N/R
Call Property Owner Name :	N/R
Closure Comments :	Referred to city of Suffolk for resolution.
Site Summary :	spraying and pouring of kerosene into the air and ground for the purpose of killing ornamental plants between a business and a private residence. we are the business involved. we are located on a peninsula between the Nansemond and James rivers. The air is unbreathable and surely the ground water has been affected.
Last Date in Agency List :	05/07/2019

Map Id: 3
Direction: ESE
Distance: 0.013 mi.
Actual: 69.134 ft.
Elevation: 0.005 mi. / 23.855 ft.
Relative: Higher

Site Name : SMITHFIELD GARDENS
1869 BRIDGE RD
SUFFOLK, VA 23433

Database(s) : [LPT - VA, TRO LUST - VA]

Envirosite ID: 342396045
EPA ID: N/R

LPT - VA

Facility Name :	Smithfield Gardens
Facility Address :	1869 Bridge Rd, Suffolk, VA 23433
County :	Suffolk City
Release Reported :	01/26/2017
PC Number :	20175197
CEDS Facility ID :	200000884197
Case Status :	Closed
Case Closed Date :	05/30/2017
Region :	TRO
Program :	RP Lead
Heating Oil Category :	Category 1
Federally Regulated UST :	N
Regulated Petroleum UST (1) :	N
Excluded UST (1) :	N
Deferred UST (1) :	N
Partially Deferred UST (1) :	N
Exempt 1 UST (2) :	N
Exempt 2 Heating Oil UST (2) :	Y
Small Heating Oil AST (2) :	N
Regulated AST (3) :	N
Unregulated AST (3) :	N
Other (Y/N) :	N
Other Description :	N/R
Unknown (Y/N) :	N
Priority :	3
Suspect Confirm Indicator :	Confirmed
Latitude :	36.900317
Longitude :	-76.496106
Last Date in Agency List :	08/22/2019

TRO LUST - VA

Facility Name :	Smithfield Gardens
Facility Address :	1869 Bridge Rd, Suffolk, VA 23433
County :	Suffolk City
Release Reported :	01/26/2017
PC Number :	20175197
CEDS Facility ID :	200000884197
Case Status :	Closed
Case Closed Date :	05/30/2017
Region :	TRO
Program :	RP Lead
Heating Oil Category :	Category 1
Federally Regulated UST :	N
Regulated Petroleum UST (1) :	N
Excluded UST (1) :	N
Deferred UST (1) :	N
Partially Deferred UST (1) :	N
Exempt 1 UST (2) :	N
Exempt 2 Heating Oil UST (2) :	Y
Small Heating Oil AST (2) :	N
Regulated AST (3) :	N
Unregulated AST (3) :	N

Map Id: 3
Direction: ESE
Distance: 0.013 mi.
Actual: 69.134 ft.
Elevation: 0.005 mi. / 23.855 ft.
Relative: Higher

Site Name : SMITHFIELD GARDENS
1869 BRIDGE RD
SUFFOLK, VA 23433

Database(s) : [LPT - VA, TRO LUST - VA] ***(cont.)***

Envirosite ID: 342396045
EPA ID: N/R

TRO LUST - VA ***(cont.)***

Other (Y/N) :	N
Other Description :	N/R
Unknown (Y/N) :	N
Priority :	3
Suspect Confirm Indicator :	Confirmed
Latitude :	36.900317
Longitude :	-76.496106
Last Date in Agency List :	08/22/2019

Map Id: 4
Direction: NNW
Distance: 0.139 mi.
Actual: 736.496 ft.
Elevation: 0.004 mi. / 21.67 ft.
Relative: Lower

Site Name : WERMER RESIDENCE
8808 CARTERS COVE RD
SUFFOLK, VA 23433

Database(s) : [LPT - VA, TRO LUST - VA]

Envirosite ID: 362632986
EPA ID: N/R

LPT - VA

Facility Name :	Wermer Residence
Facility Address :	8808 Carters Cove Rd, Suffolk, VA 23433
County :	Suffolk City
Release Reported :	12/13/2017
PC Number :	20185130
CEDS Facility ID :	200000886156
Case Status :	Closed
Case Closed Date :	03/29/2018
Region :	TRO
Program :	RP Lead
Heating Oil Category :	Category 1
Federally Regulated UST :	N
Regulated Petroleum UST (1) :	N
Excluded UST (1) :	N
Deferred UST (1) :	N
Partially Deferred UST (1) :	N
Exempt 1 UST (2) :	N
Exempt 2 Heating Oil UST (2) :	Y
Small Heating Oil AST (2) :	N
Regulated AST (3) :	N
Unregulated AST (3) :	N
Other (Y/N) :	N
Other Description :	N/R
Unknown (Y/N) :	N
Priority :	3
Suspect Confirm Indicator :	Confirmed
Latitude :	36.905007
Longitude :	-76.49944
Last Date in Agency List :	08/22/2019

Map Id: 4
Direction: NNW
Distance: 0.139 mi.
Actual: 736.496 ft.
Elevation: 0.004 mi. / 21.67 ft.
Relative: Lower

Site Name : WERMER RESIDENCE
8808 CARTERS COVE RD
SUFFOLK, VA 23433

Database(s) : [LPT - VA, TRO LUST - VA] ***(cont.)***

Envirosite ID: 362632986
EPA ID: N/R

TRO LUST - VA

Facility Name :	Wermer Residence
Facility Address :	8808 Carters Cove Rd, Suffolk, VA 23433
County :	Suffolk City
Release Reported :	12/13/2017
PC Number :	20185130
CEDS Facility ID :	200000886156
Case Status :	Closed
Case Closed Date :	03/29/2018
Region :	TRO
Program :	RP Lead
Heating Oil Category :	Category 1
Federally Regulated UST :	N
Regulated Petroleum UST (1) :	N
Excluded UST (1) :	N
Deferred UST (1) :	N
Partially Deferred UST (1) :	N
Exempt 1 UST (2) :	N
Exempt 2 Heating Oil UST (2) :	Y
Small Heating Oil AST (2) :	N
Regulated AST (3) :	N
Unregulated AST (3) :	N
Other (Y/N) :	N
Other Description :	N/R
Unknown (Y/N) :	N
Priority :	3
Suspect Confirm Indicator :	Confirmed
Latitude :	36.905007
Longitude :	-76.49944
Last Date in Agency List :	08/22/2019

Map Id: 5
Direction: E
Distance: 0.312 mi.
Actual: 1649.637 ft.
Elevation: 0.003 mi. / 17.375 ft.
Relative: Lower

Site Name : CEDAR POINT GOLF COURSE
8056 CLUBHOUSE DR
SUFFOLK, VA 23434

Database(s) : [LPT - VA, TRO LUST - VA]

Envirosite ID: 342392930
EPA ID: N/R

LPT - VA

Facility Name :	Cedar Point Golf Course
Facility Address :	8056 Clubhouse Dr, Suffolk, VA 23434
County :	Suffolk City
Release Reported :	06/20/2003
PC Number :	20035173
CEDS Facility ID :	200000064451
Case Status :	Closed
Case Closed Date :	06/23/2003
Region :	TRO

Map Id: 5
Direction: E
Distance: 0.312 mi.
Actual: 1649.637 ft.
Elevation: 0.003 mi. / 17.375 ft.
Relative: Lower

Site Name : CEDAR POINT GOLF COURSE
8056 CLUBHOUSE DR
SUFFOLK, VA 23434

Database(s) : [LPT - VA, TRO LUST - VA] ***(cont.)***

Envirosite ID: 342392930
EPA ID: N/R

LPT - VA ***(cont.)***

Program :	RP Lead
Heating Oil Category :	N/R
Federally Regulated UST :	Y
Regulated Petroleum UST (1) :	N/R
Excluded UST (1) :	N/R
Deferred UST (1) :	N/R
Partially Deferred UST (1) :	N/R
Exempt 1 UST (2) :	N/R
Exempt 2 Heating Oil UST (2) :	N/R
Small Heating Oil AST (2) :	N/R
Regulated AST (3) :	N/R
Unregulated AST (3) :	N/R
Other (Y/N) :	N/R
Other Description :	N/R
Unknown (Y/N) :	N/R
Priority :	3
Suspect Confirm Indicator :	Suspected
Latitude :	36.90100919
Longitude :	-76.48778817
Last Date in Agency List :	08/22/2019

TRO LUST - VA

Facility Name :	Cedar Point Golf Course
Facility Address :	8056 Clubhouse Dr, Suffolk, VA 23434
County :	Suffolk City
Release Reported :	06/20/2003
PC Number :	20035173
CEDS Facility ID :	200000064451
Case Status :	Closed
Case Closed Date :	06/23/2003
Region :	TRO
Program :	RP Lead
Heating Oil Category :	N/R
Federally Regulated UST :	Y
Regulated Petroleum UST (1) :	N/R
Excluded UST (1) :	N/R
Deferred UST (1) :	N/R
Partially Deferred UST (1) :	N/R
Exempt 1 UST (2) :	N/R
Exempt 2 Heating Oil UST (2) :	N/R
Small Heating Oil AST (2) :	N/R
Regulated AST (3) :	N/R
Unregulated AST (3) :	N/R
Other (Y/N) :	N/R
Other Description :	N/R
Unknown (Y/N) :	N/R
Priority :	3
Suspect Confirm Indicator :	Suspected
Latitude :	36.90100919
Longitude :	-76.48778817
Last Date in Agency List :	08/22/2019

Map Id: 6
Direction: WSW
Distance: 0.397 mi.
Actual: 2098.335 ft.
Elevation: 0.004 mi. / 23.002 ft.
Relative: Higher

Site Name : VIOLA RESIDENCE
8520 CRITTENDEN RD
SUFFOLK, VA 23436

Database(s) : [LPT - VA, TRO LUST - VA]

Envirosite ID: 342396549
EPA ID: N/R

LPT - VA

Facility Name :	VIOLA RESIDENCE
Facility Address :	8520 Crittenden Rd, Suffolk, VA 23436
County :	Suffolk City
Release Reported :	07/27/1998
PC Number :	19992213
CEDS Facility ID :	200000067562
Case Status :	Closed
Case Closed Date :	08/31/1998
Region :	TRO
Program :	RP Lead
Heating Oil Category :	N/R
Federally Regulated UST :	N
Regulated Petroleum UST (1) :	N/R
Excluded UST (1) :	N/R
Deferred UST (1) :	N/R
Partially Deferred UST (1) :	N/R
Exempt 1 UST (2) :	N/R
Exempt 2 Heating Oil UST (2) :	N/R
Small Heating Oil AST (2) :	N/R
Regulated AST (3) :	N/R
Unregulated AST (3) :	N/R
Other (Y/N) :	N/R
Other Description :	N/R
Unknown (Y/N) :	N/R
Priority :	1
Suspect Confirm Indicator :	Suspected
Latitude :	36.8973821
Longitude :	-76.50746242
Last Date in Agency List :	08/22/2019

TRO LUST - VA

Facility Name :	VIOLA RESIDENCE
Facility Address :	8520 Crittenden Rd, Suffolk, VA 23436
County :	Suffolk City
Release Reported :	07/27/1998
PC Number :	19992213
CEDS Facility ID :	200000067562
Case Status :	Closed
Case Closed Date :	08/31/1998
Region :	TRO
Program :	RP Lead
Heating Oil Category :	N/R
Federally Regulated UST :	N
Regulated Petroleum UST (1) :	N/R
Excluded UST (1) :	N/R
Deferred UST (1) :	N/R
Partially Deferred UST (1) :	N/R
Exempt 1 UST (2) :	N/R
Exempt 2 Heating Oil UST (2) :	N/R
Small Heating Oil AST (2) :	N/R
Regulated AST (3) :	N/R
Unregulated AST (3) :	N/R

Map Id: 6
Direction: WSW
Distance: 0.397 mi.
Actual: 2098.335 ft.
Elevation: 0.004 mi. / 23.002 ft.
Relative: Higher

Site Name : VIOLA RESIDENCE
8520 CRITTENDEN RD
SUFFOLK, VA 23436

Database(s) : [LPT - VA, TRO LUST - VA] ***(cont.)***

Envirosite ID: 342396549
EPA ID: N/R

TRO LUST - VA ***(cont.)***

Other (Y/N) :	N/R
Other Description :	N/R
Unknown (Y/N) :	N/R
Priority :	1
Suspect Confirm Indicator :	Suspected
Latitude :	36.8973821
Longitude :	-76.50746242
Last Date in Agency List :	08/22/2019

Map Id: 7
Direction: N
Distance: 0.445 mi.
Actual: 2350.427 ft.
Elevation: 0.003 mi. / 18.048 ft.
Relative: Lower

Site Name : ANDERSON CHARLES AND SKYE RESIDENCE
1612 STEEPLE DR
SUFFOLK, VA 23433

Database(s) : [LPT - VA, TRO LUST - VA]

Envirosite ID: 420300405
EPA ID: N/R

LPT - VA

Facility Name :	Anderson Charles and Skye Residence
Facility Address :	1612 Steeple Dr, Suffolk, VA 23433
County :	Suffolk City
Release Reported :	02/04/2019
PC Number :	20195149
CEDS Facility ID :	200000888490
Case Status :	Open
Case Closed Date :	N/R
Region :	TRO
Program :	RP Lead
Heating Oil Category :	Category 3
Federally Regulated UST :	N
Regulated Petroleum UST (1) :	N
Excluded UST (1) :	N
Deferred UST (1) :	N
Partially Deferred UST (1) :	N
Exempt 1 UST (2) :	N
Exempt 2 Heating Oil UST (2) :	Y
Small Heating Oil AST (2) :	N
Regulated AST (3) :	N
Unregulated AST (3) :	N
Other (Y/N) :	N
Other Description :	N/R
Unknown (Y/N) :	N
Priority :	2
Suspect Confirm Indicator :	Confirmed
Latitude :	36.910067
Longitude :	-76.496315
Last Date in Agency List :	08/22/2019

Map Id: 7
Direction: N
Distance: 0.445 mi.
Actual: 2350.427 ft.
Elevation: 0.003 mi. / 18.048 ft.
Relative: Lower

Site Name : ANDERSON CHARLES AND SKYE RESIDENCE
1612 STEEPLE DR
SUFFOLK, VA 23433

Database(s) : [LPT - VA, TRO LUST - VA] ***(cont.)***

Envirosite ID: 420300405
EPA ID: N/R

TRO LUST - VA

Facility Name :	Anderson Charles and Skye Residence
Facility Address :	1612 Steeple Dr, Suffolk, VA 23433
County :	Suffolk City
Release Reported :	02/04/2019
PC Number :	20195149
CEDS Facility ID :	200000888490
Case Status :	Open
Case Closed Date :	N/R
Region :	TRO
Program :	RP Lead
Heating Oil Category :	Category 3
Federally Regulated UST :	N
Regulated Petroleum UST (1) :	N
Excluded UST (1) :	N
Deferred UST (1) :	N
Partially Deferred UST (1) :	N
Exempt 1 UST (2) :	N
Exempt 2 Heating Oil UST (2) :	Y
Small Heating Oil AST (2) :	N
Regulated AST (3) :	N
Unregulated AST (3) :	N
Other (Y/N) :	N
Other Description :	N/R
Unknown (Y/N) :	N
Priority :	2
Suspect Confirm Indicator :	Confirmed
Latitude :	36.910067
Longitude :	-76.496315
Last Date in Agency List :	08/22/2019

ENVIROSITE ID	NAME	ADDRESS	CITY	ZIP	DATABASE(S)
25053316	ART RAY CORPORATION DEBRI...				SWF/LF - VA
408224731	DOGWOOD RUN	CORNER OF ROUTE 17 AND ST...	SUFFOLK		SPILLS - VA
317720784	EMPIRE BRUSH, SUFFOLK (AR...		SUFFOLK		ARCHIVED VRP - VA, H...
317720765	GOODWIN JUNK YARD		SUFFOLK		ARCHIVED VRP - VA, H...
317768306	MOTOR OIL RELEASE - MVA	INTERSECTION OF COLLEGE D...	SUFFOLK		SPILLS - VA
3553786	NANSEMOND ORDNANCE DEPOT		SUFFOLK		FUDS
327463208	NIKE N-63 (SUFFOLK)		SUFFOLK		FUDS
321966100	OFF CRITTENDEN ROAD				ARCHIVED SPILLS - VA
317720742	PRILLAMAN CHEMICAL (ARCHI...		SUFFOLK		ARCHIVED VRP - VA, H...
321966356	SANDY BOTTOM MATERIAL CO	CRITTENDEN RD			ARCHIVED SPILLS - VA
321966344	SCHAUBACH PROPERTY	CRITTENDEN ROAD & MACEDON...			ARCHIVED SPILLS - VA
317720718	SOUTHERN STATES, CORP. IN...		SUFFOLK		ARCHIVED VRP - VA, H...
317720795	SUFFOLK GAS CORPORATION, ...	HILL STREET	SUFFOLK		ARCHIVED VRP - VA, H...
25053375	VIRGINIA SOIL RECLAMATION				SWF/LF - VA

FEDERAL RCRA NON-CORRACTS TSD FACILITIES LIST

ARCHIVED RCRA TSDF: Resource Conservation and Recovery Act hazardous waste transportation storage disposal and treatment facilities

Agency Version Date: 07/19/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 09/27/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 07/19/2019

RCRA_TSDF: Resource Conservation and Recovery Act hazardous waste transportation storage disposal and treatment facilities

Agency Version Date: 07/19/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 09/27/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 07/19/2019

FEDERAL CERCLIS LIST

CERCLIS NFRAP: The CERCLIS sites with No Further Remedial Action Planned from the CERCLIS program database. The Environmental Protection Agency decommissioned the CERCLIS data in 2014. The last update was November 12, 2013.

Agency Version Date: 06/10/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 10/28/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 08/19/2019

CERCLIS-HIST: The CERCLIS program database contains information on the assessment and remediation of federal hazardous waste sites. The Environmental Protection Agency decommissioned the CERCLIS data in 2014. The last update was November 12, 2013.

Agency Version Date: 06/10/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 10/28/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 08/19/2019

FEDERAL FACILITY: Sites where Federal Facilities Restoration and Reuse Office (FFRRO) arranged cleanup for Base Closure and Property Transfer at Federal Facilities

Agency Version Date: 06/10/2019
Agency Update Frequency: Varies
Planned Next Contact: 10/28/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8712
Most Recent Contact: 08/19/2019

SEMS_8R_ACTIVE SITES: The Active Site Inventory Report displays site and location information at active SEMS sites. An active site is one at which site assessment, removal, remedial, enforcement, cost recovery, or oversight activities are being planned or conducted. NPL sites include latitude and longitude information. For non-NPL sites, a brief site status is provided.

Agency Version Date: 06/10/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 10/28/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 08/19/2019

SEMS_8R_ARCHIVED SITES: The Archived Site Inventory displays site and location information at sites archived from SEMS. An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time.

Agency Version Date: 06/10/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 10/28/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 08/19/2019

FEDERAL RCRA CORRACTS FACILITIES LIST

CORRACTS: List of facilities where Resource Conservation and Recovery Act Corrective Action Program used to investigate and remediate hazardous releases

Agency Version Date: 07/19/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 09/27/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-1667
Most Recent Contact: 07/19/2019

HIST CORRACTS 2: List of facilities where Resource Conservation and Recovery Act Corrective Action Program used to investigate and remediate hazardous releases that are no longer in current agency list.

Agency Version Date: 10/12/2018
Agency Update Frequency: Annually
Planned Next Contact: 10/24/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-1667
Most Recent Contact: 07/26/2019

FEDERAL DELISTED NPL SITE LIST

DELISTED NPL: National Priority List of sites that were delisted and no longer require action

Agency Version Date: 06/10/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 10/28/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 08/19/2019

DELISTED PROPOSED NPL: Sites that have been delisted from the proposed National Priority List

Agency Version Date: 06/10/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 10/28/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 08/19/2019

SEMS_DELETED NPL: All Deleted National Priority List Sties

Agency Version Date: 06/10/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 10/28/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 08/19/2019

FEDERAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS

EPA LF MOP: Sites in the EPA Landfill Methane Outreach Program

Agency Version Date: 07/15/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 09/23/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 07/15/2019

FEDERAL ERNS LIST

ERNS: Emergency Response Notification System records of reported spills

Agency Version Date: 06/12/2019
Agency Update Frequency: Annually
Planned Next Contact: 10/30/2019
Agency: National Response Center United States Coast Guard
Agency Contact: N/R
Most Recent Contact: 08/21/2019

FEDERAL RCRA GENERATORS LIST

HIST RCRA_CESQG: List of Resource Conservation and Recovery Act licensed conditionally exempt small quantity generators that are no longer in current agency list.

Agency Version Date: 10/12/2018
Agency Update Frequency: Annually
Planned Next Contact: 10/24/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 07/26/2019

FEDERAL RCRA GENERATORS LIST (cont.)

HIST RCRA_LQG: List of Resource Conservation and Recovery Act licensed large quantity generators that are no longer in current agency list.

Agency Version Date: 10/12/2018
Agency Update Frequency: Annually
Planned Next Contact: 10/24/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 07/26/2019

HIST RCRA_NONGEN: List of Resource Conservation and Recovery Act licensed non-generators that are no longer in current agency list.

Agency Version Date: 10/12/2018
Agency Update Frequency: Annually
Planned Next Contact: 10/24/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 07/26/2019

HIST RCRA_SQG: List of Resource Conservation and Recovery Act licensed small quantity generators that are no longer in current agency list.

Agency Version Date: 10/12/2018
Agency Update Frequency: Annually
Planned Next Contact: 10/24/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 07/26/2019

RCRA_LQG: Resource Conservation and Recovery Act listing of licensed large quantity generators

Agency Version Date: 07/19/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 09/27/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 07/19/2019

RCRA_NONGEN: Resource Conservation and Recovery Act listing of licensed non-generators

Agency Version Date: 07/19/2019
Agency Update Frequency: Varies
Planned Next Contact: 09/27/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 07/19/2019

RCRA_SQG: Resource Conservation and Recovery Act listing of licensed small quantity generators

Agency Version Date: 07/19/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 09/27/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 07/19/2019

RCRA_VSQG: Resource Conservation and Recovery Act listing of licensed very small quantity generators.

Agency Version Date: 07/19/2019
Agency Update Frequency: Varies
Planned Next Contact: 09/27/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 07/19/2019

FEDERAL NPL SITE LIST

NPL: List of priority contaminated sites among identified releases or threatened releases of hazardous substances pollutants or contaminants nationally

Agency Version Date: 06/10/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 10/28/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 08/19/2019

NPL EPA R1 GIS: Geospatial data for the Environmental Protection Agency Region 1 National Priority List subject to environmental regulation

Agency Version Date: 06/10/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 10/28/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-2132
Most Recent Contact: 08/19/2019

FEDERAL NPL SITE LIST (cont.)

NPL EPA R3 GIS: Geospatial data for the Environmental Protection Agency Region 3 National Priority List subject to environmental regulation

Agency Version Date: 06/10/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 10/28/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-2132
Most Recent Contact: 08/19/2019

NPL EPA R6 GIS: Geospatial data for the Environmental Protection Agency Region 6 National Priority List subject to environmental regulation

Agency Version Date: 06/10/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 10/28/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-2132
Most Recent Contact: 08/19/2019

NPL EPA R8 GIS: Geospatial data for the Environmental Protection Agency Region 8 National Priority List subject to environmental regulation

Agency Version Date: 06/10/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 10/28/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-2132
Most Recent Contact: 08/19/2019

NPL EPA R9 GIS: Geospatial data for the Environmental Protection Agency Region 9 National Priority List subject to environmental regulation

Agency Version Date: 06/10/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 10/28/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-2132
Most Recent Contact: 08/19/2019

PART NPL: Sites that are a part of an National Priority List site referred to as the parent site

Agency Version Date: 06/10/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 10/28/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 08/19/2019

PROPOSED NPL: Sites that have been proposed for the National Priority List

Agency Version Date: 06/10/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 10/28/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 08/19/2019

SEMS_FINAL NPL: All Included National Priority List Sites

Agency Version Date: 06/10/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 10/28/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 08/19/2019

SEMS_PROPOSED NPL: All Proposed National Priority List Sites

Agency Version Date: 06/10/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 10/28/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 08/19/2019

FEDERAL INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES

RCRA IC_EC: Sites with institutional or engineering controls related to Resource Conservation and Recovery Act

Agency Version Date: 06/18/2019
Agency Update Frequency: Varies
Planned Next Contact: 11/05/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 215-814-2469
Most Recent Contact: 08/27/2019

FEDERAL INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES (cont.)

Fed E C: Federal listing of remediation sites with engineering controls

Agency Version Date: 09/30/2013
Agency Update Frequency: Varies
Planned Next Contact: 11/13/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 09/04/2019

Fed I C: Federal listing of remediation sites with institutional controls

Agency Version Date: 09/30/2013
Agency Update Frequency: Varies
Planned Next Contact: 11/13/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 09/04/2019

STATE AND TRIBAL REGISTERED STORAGE TANK LISTS

FEMA UST: FEMA underground storage tank listing

Agency Version Date: 06/21/2019
Agency Update Frequency: Varies
Planned Next Contact: 11/18/2019
Agency: FEMA
Agency Contact: 202-212-5283
Most Recent Contact: 08/20/2019

INDIAN UST R1: Underground Storage Tanks on Indian Land in EPA Region 1

Agency Version Date: 04/11/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 10/15/2019
Agency: U.S. Environmental Protection Agency Region 1
Agency Contact: 855-246-3642
Most Recent Contact: 08/06/2019

INDIAN UST R10: Underground Storage Tanks on Indian Land in EPA Region 10

Agency Version Date: 04/16/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 11/11/2019
Agency: U.S. Environmental Protection Agency Region 10
Agency Contact: 855-246-3642
Most Recent Contact: 09/02/2019

INDIAN UST R2: Underground Storage Tanks on Indian Land in EPA Region 2

Agency Version Date: 12/07/2016
Agency Update Frequency: Quarterly
Planned Next Contact: 10/21/2019
Agency: U.S. Environmental Protection Agency Region 2
Agency Contact: 855-246-3642
Most Recent Contact: 08/12/2019

INDIAN UST R4: Underground Storage Tanks on Indian Land in EPA Region 4

Agency Version Date: 09/24/2018
Agency Update Frequency: Semi Annually
Planned Next Contact: 11/11/2019
Agency: U.S. Environmental Protection Agency Region 4
Agency Contact: 855-246-3642
Most Recent Contact: 09/02/2019

INDIAN UST R5: Underground Storage Tanks on Indian Land in EPA Region 5

Agency Version Date: 04/08/2019
Agency Update Frequency: Varies
Planned Next Contact: 10/31/2019
Agency: U.S. Environmental Protection Agency Region 5
Agency Contact: 855-246-3642
Most Recent Contact: 08/22/2019

INDIAN UST R6: Underground Storage Tanks on Indian Land in EPA Region 6

Agency Version Date: 06/27/2019
Agency Update Frequency: Semi Annually
Planned Next Contact: 11/14/2019
Agency: U.S. Environmental Protection Agency Region 6
Agency Contact: 855-246-3642
Most Recent Contact: 09/05/2019

STATE AND TRIBAL REGISTERED STORAGE TANK LISTS (cont.)

INDIAN UST R7: Underground Storage Tanks on Indian Land in EPA Region 7

Agency Version Date: 05/02/2019
Agency Update Frequency: Varies
Planned Next Contact: 10/31/2019
Agency: U.S. Environmental Protection Agency Region 7
Agency Contact: 855-246-3642
Most Recent Contact: 08/22/2019

INDIAN UST R8: Underground Storage Tanks on Indian Land in EPA Region 8

Agency Version Date: 05/02/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 10/14/2019
Agency: U.S. Environmental Protection Agency Region 8
Agency Contact: 855-246-3642
Most Recent Contact: 08/05/2019

INDIAN UST R9: Underground Storage Tanks on Indian Land in EPA Region 9

Agency Version Date: 04/08/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 10/14/2019
Agency: U.S. Environmental Protection Agency Region 9
Agency Contact: 855-246-3642
Most Recent Contact: 08/05/2019

AST - VA: Registered Aboveground Storage Tanks in Virginia

Agency Version Date: 07/15/2019
Agency Update Frequency: Varies
Planned Next Contact: 09/23/2019
Agency: Department of Environmental Quality
Agency Contact: (804) 698-4000
Most Recent Contact: 07/15/2019

UST - VA: Registered Underground Storage Tanks in Virginia

Agency Version Date: 07/15/2019
Agency Update Frequency: Varies
Planned Next Contact: 09/23/2019
Agency: Department of Environmental Quality
Agency Contact: (804) 698-4000
Most Recent Contact: 07/15/2019

STATE AND TRIBAL LEAKING STORAGE TANK LISTS

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land in EPA Region 1

Agency Version Date: 08/06/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 10/15/2019
Agency: U.S. Environmental Protection Agency Region 1
Agency Contact: 855-246-3642
Most Recent Contact: 08/06/2019

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land in EPA Region 10

Agency Version Date: 04/16/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 11/11/2019
Agency: U.S. Environmental Protection Agency Region 10
Agency Contact: 855-246-3642
Most Recent Contact: 09/02/2019

INDIAN LUST R2: Leaking Underground Storage Tanks on Indian Land in EPA Region 2

Agency Version Date: 12/07/2016
Agency Update Frequency: Quarterly
Planned Next Contact: 10/21/2019
Agency: U.S. Environmental Protection Agency Region 2
Agency Contact: 855-246-3642
Most Recent Contact: 08/12/2019

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land in EPA Region 4

Agency Version Date: 09/24/2018
Agency Update Frequency: Semi Annually
Planned Next Contact: 11/11/2019
Agency: U.S. Environmental Protection Agency Region 4
Agency Contact: 855-246-3642
Most Recent Contact: 09/02/2019

STATE AND TRIBAL LEAKING STORAGE TANK LISTS (cont.)

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land in EPA Region 5

Agency Version Date: 04/08/2019
Agency Update Frequency: Varies
Planned Next Contact: 10/31/2019
Agency: U.S. Environmental Protection Agency Region 5
Agency Contact: 855-246-3642
Most Recent Contact: 08/22/2019

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land in EPA Region 6

Agency Version Date: 11/01/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 11/04/2019
Agency: U.S. Environmental Protection Agency Region 6
Agency Contact: 855-246-3642
Most Recent Contact: 08/26/2019

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land in EPA Region 7

Agency Version Date: 07/02/2019
Agency Update Frequency: Varies
Planned Next Contact: 10/31/2019
Agency: U.S. Environmental Protection Agency Region 7
Agency Contact: 855-246-3642
Most Recent Contact: 08/22/2019

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land in EPA Region 8

Agency Version Date: 10/16/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 11/01/2019
Agency: U.S. Environmental Protection Agency Region 8
Agency Contact: 855-246-3642
Most Recent Contact: 08/23/2019

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land in EPA Region 9

Agency Version Date: 04/08/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 10/14/2019
Agency: U.S. Environmental Protection Agency Region 9
Agency Contact: 855-246-3642
Most Recent Contact: 08/05/2019

HIST LPT - VA: List of petroleum storage tanks with known releases that is no longer in current agency list.

Agency Version Date: 01/25/2019
Agency Update Frequency: Annually
Planned Next Contact: 12/09/2019
Agency: Department of Environmental Quality
Agency Contact: (804) 698-4000
Most Recent Contact: 09/11/2019

LPT - VA: Petroleum Storage tanks with known releases

Agency Version Date: 08/22/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 11/01/2019
Agency: Department of Environmental Quality
Agency Contact: (804) 698-4000
Most Recent Contact: 08/23/2019

PRO LUST - VA: Piedmont Regional Office: Leaking Underground Storage Tanks

Agency Version Date: 08/22/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 11/01/2019
Agency: Department of Environmental Quality
Agency Contact: (804) 698-4000
Most Recent Contact: 08/23/2019

SWRO LPT - VA: South Western Region : Leaking Petroleum Storage Tanks

Agency Version Date: 08/22/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 11/01/2019
Agency: Department of Environmental Quality
Agency Contact: (804) 698-4000
Most Recent Contact: 08/23/2019

TRO LUST - VA: Tidewater Regional Office: Leaking Underground Storage Tanks

Agency Version Date: 08/22/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 11/01/2019
Agency: Department of Environmental Quality
Agency Contact: (804) 698-4000
Most Recent Contact: 08/23/2019

STATE AND TRIBAL LEAKING STORAGE TANK LISTS (cont.)

VRO LUST - VA: Valley Regional Office: Leaking Underground Storage Tanks

Agency Version Date: 08/22/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 11/01/2019
Agency: Department of Environmental Quality
Agency Contact: (804) 698-4000
Most Recent Contact: 08/23/2019

STATE AND TRIBAL BROWNFIELD SITES

TRIBAL BROWNFIELDS: Tribal brownfield remediation site listing

Agency Version Date: 02/10/2014
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 11/04/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 08/06/2019

BROWNFIELDS - VA: List of brownfield sites

Agency Version Date: 08/28/2019
Agency Update Frequency: Varies
Planned Next Contact: 11/26/2019
Agency: Department of Environmental Quality
Agency Contact: (804) 698-4179
Most Recent Contact: 08/28/2019

STATE AND TRIBAL VOLUNTARY CLEANUP SITES

ARCHIVED VRP - VA: Archived Voluntary Remediation Program Sites

Agency Version Date: 01/13/2016
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 12/18/2019
Agency: Department of Environmental Quality
Agency Contact: (804) 698-4190
Most Recent Contact: 09/20/2019

HIST VRP - VA: Historical VRP Completed and Planned sites within Virginia that are no longer in current agency list.

Agency Version Date: 06/05/2019
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 11/26/2019
Agency: Department of Environmental Quality
Agency Contact: (804) 698-4000
Most Recent Contact: 08/28/2019

VRP - VA: VRP Completed and Planned sites within Virginia

Agency Version Date: 06/05/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 11/26/2019
Agency: Department of Environmental Quality
Agency Contact: (804) 698-4000
Most Recent Contact: 08/28/2019

STATE INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES

HIST I C - VA: Historical sites with institutional controls that are no longer in current agency list.

Agency Version Date: 06/05/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 11/26/2019
Agency: Department of Environmental Quality
Agency Contact: (804) 698-4000
Most Recent Contact: 08/28/2019

I C - VA: Sites with institutional controls

Agency Version Date: 06/05/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 11/26/2019
Agency: Department of Environmental Quality
Agency Contact: (804) 698-4000
Most Recent Contact: 08/28/2019

STATE AND TRIBAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS

SWF/LF - VA: State Landfill locations

Agency Version Date: 06/08/2017
Agency Update Frequency: Annually
Planned Next Contact: 09/23/2019
Agency: Department of Environmental Quality
Agency Contact: (804) 698-4000
Most Recent Contact: 07/15/2019

LOCAL BROWNFIELD LISTS

BROWNFIELDS-ACRES: EPA Brownfields Assessment, Cleanup and Redevelopment Exchange System.

Agency Version Date: 07/04/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 11/21/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 09/12/2019

Fed Brownfields: Federal brownfield remediation sites

Agency Version Date: 08/13/2019
Agency Update Frequency: Semi Annually
Planned Next Contact: 10/22/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 08/13/2019

LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES

FED CDL: The U.S. Department of Justice listing of clandestine drug lab locations

Agency Version Date: 08/05/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 10/14/2019
Agency: U.S. Department of Justice
Agency Contact: 202-307-7610
Most Recent Contact: 08/05/2019

US HIST CDL: The U.S. Department of Justice historical listing of clandestine drug lab locations

Agency Version Date: 08/05/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 10/14/2019
Agency: U.S. Department of Justice
Agency Contact: 202-307-7610
Most Recent Contact: 08/05/2019

LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES

HIST INDIAN ODI R8: List of Region 8 Indian land open dump inventory sites maintained within the STARS program that is no longer in current agency list.

Agency Version Date: 11/12/2018
Agency Update Frequency: Annually
Planned Next Contact: 12/03/2019
Agency: Indian Health Service
Agency Contact: 855-246-3642
Most Recent Contact: 09/05/2019

INDIAN ODI R8: Region 8 Indian land open dump inventory sites maintained within the STARS program

Agency Version Date: 08/19/2019
Agency Update Frequency: Varies
Planned Next Contact: 10/28/2019
Agency: Indian Health Service
Agency Contact: 855-246-3642
Most Recent Contact: 08/19/2019

ODI: Open dump inventory sites

Agency Version Date: 10/03/2017
Agency Update Frequency: No Update
Planned Next Contact: 11/12/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 09/03/2019

TRIBAL ODI: Indian land open dump inventory for all regions

Agency Version Date: 06/27/2019
Agency Update Frequency: Varies
Planned Next Contact: 11/14/2019
Agency: Indian Health Service
Agency Contact: 301-443-3593
Most Recent Contact: 09/05/2019

RECORDS OF EMERGENCY RELEASE REPORTS

HMIRS (DOT): Hazardous Material spills reported by the Department of Transportation

Agency Version Date: 07/02/2019
Agency Update Frequency: Varies
Planned Next Contact: 11/27/2019
Agency: U.S. Department of Transportation
Agency Contact: (202) 366-4996
Most Recent Contact: 09/18/2019

ARCHIVED SPILLS - VA: The VA Department of Environment Qualitys Pollution Response Program responses to air, water, and waste pollution incidents prior to October 2009.

Agency Version Date: 02/26/2019
Agency Update Frequency: Annually
Planned Next Contact: 12/16/2019
Agency: Department of Environmental Quality
Agency Contact: 804-698-4000
Most Recent Contact: 09/18/2019

SPILLS - VA: Oil and hazardous material spills report sites

Agency Version Date: 05/07/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 09/24/2019
Agency: Department of Environmental Quality
Agency Contact: 804-698-4000
Most Recent Contact: 07/16/2019

LOCAL LAND RECORDS

LIENS 2: Comprehensive Environmental Response Compensation and Liability Act sites with liens

Agency Version Date: 05/11/2017
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 11/04/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 08/06/2019

OTHER ASCERTAINABLE RECORDS

AFS: Air Facility Systems Quarterly Extract

Agency Version Date: 06/14/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 11/01/2019
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 08/23/2019

ALT FUELING: Alternative Fueling Stations by fuel type.

Agency Version Date: 07/17/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 09/25/2019
Agency: U.S. Department of Energy
Agency Contact: N/R
Most Recent Contact: 07/17/2019

BRS: Reporting of hazardous waste generation and management from large quantity generators

Agency Version Date: 07/19/2019
Agency Update Frequency: Biennial
Planned Next Contact: 09/27/2019
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 07/19/2019

CDC HAZDAT: The Agency for Toxic Substances and Disease Registry's Hazardous Substance Release/Health Effects Database.

Agency Version Date: 06/10/2019
Agency Update Frequency: Varies
Planned Next Contact: 10/28/2019
Agency: Agency for Toxic Substances and Disease Registry
Agency Contact: 770-488-6399
Most Recent Contact: 08/19/2019

COAL ASH DOE: List of existing and planned generators with 1 megawatt or greater of combined capacity that are utilizing coal ash impoundments.

Agency Version Date: 07/11/2019
Agency Update Frequency: Varies
Planned Next Contact: 11/28/2019
Agency: Department of Energy
Agency Contact: (202) 586-8800
Most Recent Contact: 09/19/2019

OTHER ASCERTAINABLE RECORDS (cont.)

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

Agency Version Date: 07/31/2014
Agency Update Frequency: Varies
Planned Next Contact: 11/04/2019
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 08/26/2019

COAL GAS: Manufactured Gas Plant locations

Agency Version Date: 06/20/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 12/02/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 09/04/2019

CONSENT (DECREES): Legal decisions regarding responsibility for Superfund locations

Agency Version Date: 06/10/2019
Agency Update Frequency: Varies
Planned Next Contact: 10/28/2019
Agency: Environmental Protection Agency
Agency Contact: (800) 424-9346
Most Recent Contact: 08/19/2019

DEBRIS R5 LF: US EPA Region 5 Disaster Debris Recovery Database is a list of public facilities for disaster construction and demolition materials, electronics, household hazardous waste, metals, tires, and vehicles in EPA Region 5.

Agency Version Date: 03/15/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 10/11/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 08/02/2019

DEBRIS R5 SWRCY: US EPA Region 5 Disaster Debris Recovery Database is a list of public facilities for disaster construction and demolition materials, electronics, household hazardous waste, metals, tires, and vehicles in EPA Region 5.

Agency Version Date: 03/15/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 10/11/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 08/02/2019

DOD: Department of Defense sites

Agency Version Date: 06/10/2019
Agency Update Frequency: Varies
Planned Next Contact: 10/28/2019
Agency: Environmental Protection Agency
Agency Contact: (800) 424-9346
Most Recent Contact: 08/19/2019

DOT OPS: Incident Data Report

Agency Version Date: 06/24/2019
Agency Update Frequency: Varies
Planned Next Contact: 11/11/2019
Agency: U.S. Department of Transportation
Agency Contact: (202) 366-4996
Most Recent Contact: 09/02/2019

ECHO: ECHO is EPA Enforcement and Compliance History Online website to search for facilities in your community to assess their compliance with environmental regulations related to CAA, CWA, RCRA, & SDWA.

Agency Version Date: 07/15/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 09/23/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-1667
Most Recent Contact: 07/15/2019

ENOI: The Electronic Notice of Intent (eNOI) database contains construction sites and industrial facilities that submit permit requests to EPA for Construction General Permits (CGP) and Multi-Sector General Permits (MSGP).

Agency Version Date: 06/28/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 11/15/2019
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 09/06/2019

OTHER ASCERTAINABLE RECORDS (cont.)

EPA FUELS: List of companies and facilities registered to participate in EPA Fuel Programs under Title 40 CFR Part 80.

Agency Version Date: 08/23/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 11/01/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: (202) 564-2307
Most Recent Contact: 08/23/2019

EPA OSC: Listing of oil spills and hazardous substance release sites requiring EPA On-Site Coordinators.

Agency Version Date: 07/10/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 11/27/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: (202) 564-2307
Most Recent Contact: 09/18/2019

EPA WATCH: The EPA Watch List was used 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. EPA maintained the lists from 2011 - 2013.

Agency Version Date: 02/09/2018
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 11/01/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: (202) 564-2307
Most Recent Contact: 08/23/2019

FA HWF: Hazardous Waste Facilities with Financial Assurance

Agency Version Date: 07/30/2019
Agency Update Frequency: Varies
Planned Next Contact: 10/08/2019
Agency: Environmental Protection Agency
Agency Contact: (800) 424-9346
Most Recent Contact: 07/30/2019

FEDLAND: Federal land locations

Agency Version Date: 06/10/2019
Agency Update Frequency: Varies
Planned Next Contact: 10/28/2019
Agency: Environmental Protection Agency
Agency Contact: (800) 424-9346
Most Recent Contact: 08/19/2019

FRS: Facility Registry Systems

Agency Version Date: 06/20/2019
Agency Update Frequency: Varies
Planned Next Contact: 11/07/2019
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 08/29/2019

FTTS: Tracking of administrative and enforcement activities related to FIFRA/TSCA

Agency Version Date: 04/16/2013
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 11/26/2019
Agency: Environmental Protection Agency
Agency Contact: (202) 564-2280
Most Recent Contact: 08/28/2019

FTTS INSP: Tracking of inspections related to FIFRA/TSCA

Agency Version Date: 05/08/2017
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 11/18/2019
Agency: Environmental Protection Agency
Agency Contact: (202) 564-2280
Most Recent Contact: 08/20/2019

FUDS: Defense sites that require cleanup

Agency Version Date: 09/30/2015
Agency Update Frequency: Varies
Planned Next Contact: 11/04/2019
Agency: US Army Corps of Engineering
Agency Contact: (202) 761-0011
Most Recent Contact: 08/26/2019

OTHER ASCERTAINABLE RECORDS (cont.)

HIST AFS: List of Air Facility Systems Quarterly Extract that are no longer in current agency list.

Agency Version Date: 06/14/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 11/01/2019
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 08/23/2019

HIST AFS 2: List of Air Facility Systems Quarterly Extract that are no longer in current agency list.

Agency Version Date: 11/26/2018
Agency Update Frequency: Quarterly
Planned Next Contact: 12/10/2019
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 09/12/2019

HIST DOD: Department of Defense historical sites

Agency Version Date: 08/17/2018
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 12/11/2019
Agency: Environmental Protection Agency
Agency Contact: (800) 424-9346
Most Recent Contact: 09/13/2019

HIST LEAD_SMELTER: List of former lead smelter sites that is no longer in current agency list.

Agency Version Date: 12/12/2018
Agency Update Frequency: Annually
Planned Next Contact: 11/22/2019
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 08/26/2019

HIST MLTS: List of sites in possession/use of radioactive materials regulated by NRC that is no longer in current agency list.

Agency Version Date: 07/13/2016
Agency Update Frequency: Annually
Planned Next Contact: 12/02/2019
Agency: Nuclear Regulatory Commission
Agency Contact: (800) 397-4209
Most Recent Contact: 09/04/2019

HIST PCB TRANS: List of PCB Disposal Facilities that are no longer in current agency list.

Agency Version Date: 01/18/2018
Agency Update Frequency: No Update
Planned Next Contact: 09/30/2019
Agency: Environmental Protection Agency
Agency Contact: (703) 308-8404
Most Recent Contact: 07/02/2019

HIST PCS ENF: List of permitted facilities to discharge wastewater (Federal equivalent to NPDES) that are no longer in current agency list.

Agency Version Date: 12/08/2018
Agency Update Frequency: Annually
Planned Next Contact: 10/17/2019
Agency: Environmental Protection Agency
Agency Contact: (202) 564-6582
Most Recent Contact: 07/19/2019

HIST PCS FACILITY: List of Permitted facilities to discharge wastewater (Federal equivalent to NPDES) that are no longer in current agency list.

Agency Version Date: 12/18/2018
Agency Update Frequency: Annually
Planned Next Contact: 10/17/2019
Agency: Environmental Protection Agency
Agency Contact: (202) 564-6582
Most Recent Contact: 07/19/2019

HIST SSTS: List of tracking of facilities who produce pesticides and their quantity that are no longer in current agency list.

Agency Version Date: 02/13/2019
Agency Update Frequency: Annually
Planned Next Contact: 10/04/2019
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 07/08/2019

OTHER ASCERTAINABLE RECORDS (cont.)

HWC DOCKET: Listing of Federal facilities which are managing or have managed hazardous waste; or have had a release of hazardous waste.

Agency Version Date: 06/14/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 11/01/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: (202) 564-2307
Most Recent Contact: 08/23/2019

ICIS: Comprised of all Federal Administrative and Judicial enforcement information [intended to replace PCS] by tracking enforcement and compliance information (also contains what used to be known as FFTS)

Agency Version Date: 07/16/2019
Agency Update Frequency: Varies
Planned Next Contact: 09/24/2019
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 07/16/2019

INACTIVE PCS: Inactive Permitted facilities to discharge wastewater

Agency Version Date: 07/16/2019
Agency Update Frequency: Varies
Planned Next Contact: 09/24/2019
Agency: Environmental Protection Agency
Agency Contact: (202) 564-6582
Most Recent Contact: 07/16/2019

INDIAN RESERVATION: Indian Reservation sites

Agency Version Date: 07/30/2019
Agency Update Frequency: Varies
Planned Next Contact: 10/08/2019
Agency: Environmental Protection Agency
Agency Contact: (800) 424-9346
Most Recent Contact: 07/30/2019

LUCIS: Land Use Control Information Systems

Agency Version Date: 08/13/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 11/05/2019
Agency: Department of the Navy: BRAC PMO
Agency Contact: (619) 532-0900
Most Recent Contact: 08/07/2019

LUCIS 2: Land Use Control Information Systems

Agency Version Date: 01/17/2018
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 09/30/2019
Agency: Department of the Navy: BRAC PMO
Agency Contact: (619) 532-0900
Most Recent Contact: 10/02/2018

MINES: Mines Master Index Files

Agency Version Date: 07/17/2019
Agency Update Frequency: Varies
Planned Next Contact: 09/25/2019
Agency: Department of Labor
Agency Contact: (202) 693-9400
Most Recent Contact: 07/17/2019

MINES USGS: Listing of all active mines and mineral plants in 2003

Agency Version Date: 07/22/2019
Agency Update Frequency: Varies
Planned Next Contact: 09/30/2019
Agency: USGS Mineral Resources Program
Agency Contact: (703) 648-5953
Most Recent Contact: 07/22/2019

MLTS: Sites in possession/use of radioactive materials regulated by NRC

Agency Version Date: 03/28/2019
Agency Update Frequency: Varies
Planned Next Contact: 12/06/2019
Agency: Nuclear Regulatory Commission
Agency Contact: (800) 397-4209
Most Recent Contact: 09/10/2019

OTHER ASCERTAINABLE RECORDS (cont.)

NPL AOC: Areas of Concern related to NPL remediation sites

Agency Version Date: 06/10/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 10/28/2019
Agency: Environmental Protection Agency
Agency Contact: N/R
Most Recent Contact: 08/19/2019

NPL LIENS: National Priority List of sites with Liens

Agency Version Date: 06/11/2019
Agency Update Frequency: Varies
Planned Next Contact: 10/28/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 08/19/2019

OSHA: OSHA's listing of inspections violations and fatality information

Agency Version Date: 07/16/2019
Agency Update Frequency: Varies
Planned Next Contact: 09/24/2019
Agency: Occupational Safety & Health Administration
Agency Contact: 800-321-6742
Most Recent Contact: 07/16/2019

PADS: Listing of generators transporters commercial store/ brokers and disposers of PCB

Agency Version Date: 03/29/2019
Agency Update Frequency: Varies
Planned Next Contact: 10/25/2019
Agency: Environmental Protection Agency
Agency Contact: (703) 308-8404
Most Recent Contact: 08/16/2019

PCB TRANSFORMER: Disposal and Storage of Polychlorinated Biphenyl (PCB) Waste

Agency Version Date: 08/28/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 11/06/2019
Agency: Environmental Protection Agency
Agency Contact: (703) 308-8404
Most Recent Contact: 08/28/2019

PCS ENF: Permitted facilities to discharge wastewater (Federal equivalent to NPDES)

Agency Version Date: 07/16/2019
Agency Update Frequency: Varies
Planned Next Contact: 09/24/2019
Agency: Environmental Protection Agency
Agency Contact: (202) 564-6582
Most Recent Contact: 07/16/2019

PCS FACILITY: Permitted facilities to discharge wastewater (Federal equivalent to NPDES)

Agency Version Date: 07/16/2019
Agency Update Frequency: Varies
Planned Next Contact: 09/24/2019
Agency: Environmental Protection Agency
Agency Contact: (202) 564-6582
Most Recent Contact: 07/16/2019

RAATS: Listing of major violators with enforcement actions issued under RCRA. Includes administrative and civil actions filed by the EPA. This dataset is no longer maintained.

Agency Version Date: 08/07/2019
Agency Update Frequency: Varies
Planned Next Contact: 10/29/2019
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 07/31/2019

RADINFO: EPA regulated facilities with radiation and radioactive materials

Agency Version Date: 08/01/2019
Agency Update Frequency: Varies
Planned Next Contact: 10/10/2019
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 08/01/2019

RMP: Facilities producing/handling/ process/ distribute/ store specific chemicals report plans required by the Clean Air Act

Agency Version Date: 06/10/2019
Agency Update Frequency: Monthly
Planned Next Contact: 11/18/2019
Agency: Environmental Protection Agency
Agency Contact: (202) 564-2534
Most Recent Contact: 08/20/2019

OTHER ASCERTAINABLE RECORDS (cont.)

ROD: Permanent remedy at an NPL site

Agency Version Date: 06/10/2019
Agency Update Frequency: Varies
Planned Next Contact: 10/28/2019
Agency: Environmental Protection Agency
Agency Contact: (800) 424-9346
Most Recent Contact: 08/19/2019

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners

Agency Version Date: 06/27/2019
Agency Update Frequency: No Update
Planned Next Contact: 11/14/2019
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 09/05/2019

SEMS_SMELTER: This report includes sites that have smelting-related, or potentially smelting-related, indicators in the SEMS database. The report includes information on the site location as well as contaminants of concern.

Agency Version Date: 06/10/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 10/28/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 08/19/2019

SSTS: Tracking of facilities who produce pesticides and their quantity

Agency Version Date: 07/03/2019
Agency Update Frequency: Annually
Planned Next Contact: 11/20/2019
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 09/11/2019

STORMWATER: Permitted storm water sites

Agency Version Date: 07/16/2019
Agency Update Frequency: Varies
Planned Next Contact: 09/24/2019
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 07/16/2019

TOSCA-PLANT: Plants controlled by the Toxic Substance Control Act

Agency Version Date: 07/03/2019
Agency Update Frequency: Varies
Planned Next Contact: 11/20/2019
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 09/11/2019

TRIS: Information regarding toxic chemicals that are being used/manufactured/ treated/ transported/released into the environment

Agency Version Date: 07/15/2019
Agency Update Frequency: Varies
Planned Next Contact: 09/23/2019
Agency: Environmental Protection Agency
Agency Contact: (202) 566-1667
Most Recent Contact: 07/15/2019

UMTRA: Uranium Recovery Sites

Agency Version Date: 07/18/2019
Agency Update Frequency: Varies
Planned Next Contact: 09/26/2019
Agency: United States Nuclear Regulatory Commission
Agency Contact: (301) 415-8200
Most Recent Contact: 07/18/2019

VAPOR: EPA Vapor Intrusion Database

Agency Version Date: 02/08/2019
Agency Update Frequency: Varies
Planned Next Contact: 11/15/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: 855-246-3642
Most Recent Contact: 09/06/2019

OTHER ASCERTAINABLE RECORDS (cont.)

Corrective Actions_2020: In 2009 the EPA created the 2020 Corrective Action Baseline list of contaminated or potentially contaminated sites with a cleanup goal to complete 95% by the year 2020. The names on the list indicate the facility owners who may or may not have caused the contamination.

Agency Version Date: 12/21/2018
Agency Update Frequency: No Longer Maintained
Planned Next Contact: 09/27/2019
Agency: U.S. Environmental Protection Agency
Agency Contact: N/R
Most Recent Contact: 07/19/2019

AIRS - VA: AIRS Title V facilities

Agency Version Date: 07/19/2019
Agency Update Frequency: Varies
Planned Next Contact: 12/04/2019
Agency: Department of Environmental Quality
Agency Contact: (804) 698-4000
Most Recent Contact: 09/06/2019

CEDS - VA: Comprehensive Environmental Data System- Wastewater Permit Disposal System

Agency Version Date: 07/11/2019
Agency Update Frequency: Varies
Planned Next Contact: 11/28/2019
Agency: Department of Environmental Quality
Agency Contact: (804) 698-4000
Most Recent Contact: 09/19/2019

DAYCARE - VA: List of child care facilities

Agency Version Date: 08/15/2019
Agency Update Frequency: Varies
Planned Next Contact: 10/24/2019
Agency: Department of Social Services
Agency Contact: (804) 726-7000
Most Recent Contact: 08/15/2019

DRYCLEANERS - VA: Dry Cleaning Facilities

Agency Version Date: 07/19/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 12/11/2019
Agency: Department of Environmental Quality
Agency Contact: (804) 698-4000
Most Recent Contact: 09/13/2019

ENF - VA: List of enforcement actions

Agency Version Date: 08/07/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 10/16/2019
Agency: Department of Environmental Quality
Agency Contact: (804) 698-4000
Most Recent Contact: 08/07/2019

HIST DRYCLEANERS - VA: List of Dry Cleaning Facilities that are no longer in current agency list.

Agency Version Date: 01/15/2019
Agency Update Frequency: Quarterly
Planned Next Contact: 12/11/2019
Agency: Department of Environmental Quality
Agency Contact: (804) 698-4000
Most Recent Contact: 09/13/2019

SUBJECT PROPERTY ADDRESS:
Crittenden Road / Route 17
Crittenden Road
Suffolk, VA 23433

SUBJECT PROPERTY COORDINATES:

Latitude(North):	36.901183 - 36°54'4.3"
Longitude(West):	-76.497765 - -76°29'52"
Universal Transverse Mercator:	Zone 18N
UTM X (Meters):	366558.19
UTM Y (Meters):	4084957.71

ELEVATION:

Elevation:	22.641 ft. above sea level

USGS TOPOGRAPHIC MAP:

Subject Property Map:	36076-H4 Newport News South, VA
Most Recent Revision:	2016
Subject Property Map:	36076-H5 Benns Church, VA
Most Recent Revision:	2016

GEOHYDROLOGY DATA:

SUBJECT PROPERTY TOPOGRAPHY:

Topographic Gradient: South

DFIRM FLOOD ZONE:

	DFIRM Flood
Subject Property County:	Electronic Data:
SUFFOLK CITY	Yes - refer to the PROPERTY PROXIMITY MAP and AREA MAP
Flood Plain Panel at Subject Property:	510156
Additional Panels in search area:	51093C

FEMA FLOOD ZONE:

	FEMA Flood
Subject Property County:	Electronic Data:
SUFFOLK CITY	No available data.
Flood Plain Panel at Subject Property:	No available data
Additional Panels in search area:	No available data

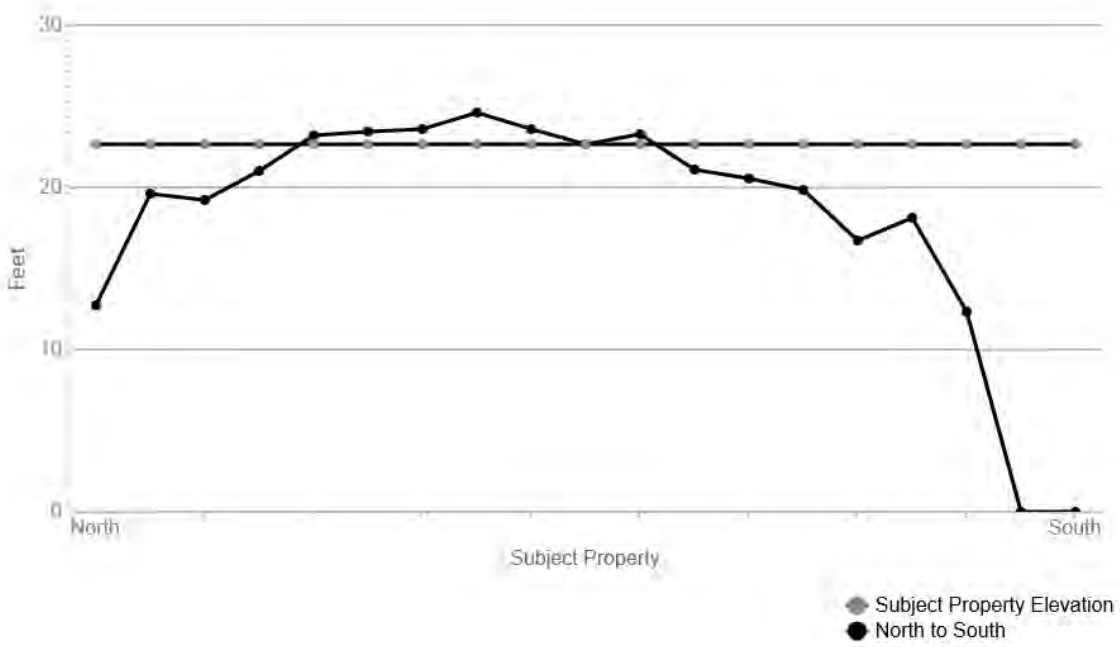
NATIONAL WETLAND INVENTORY:

	NWI Electronic
NWI Quad at Subject Property:	Data Coverage:
Newport News South	Yes - refer to the Geological Findings Map

LITHOSTRATIGRAPHIC INFORMATION:

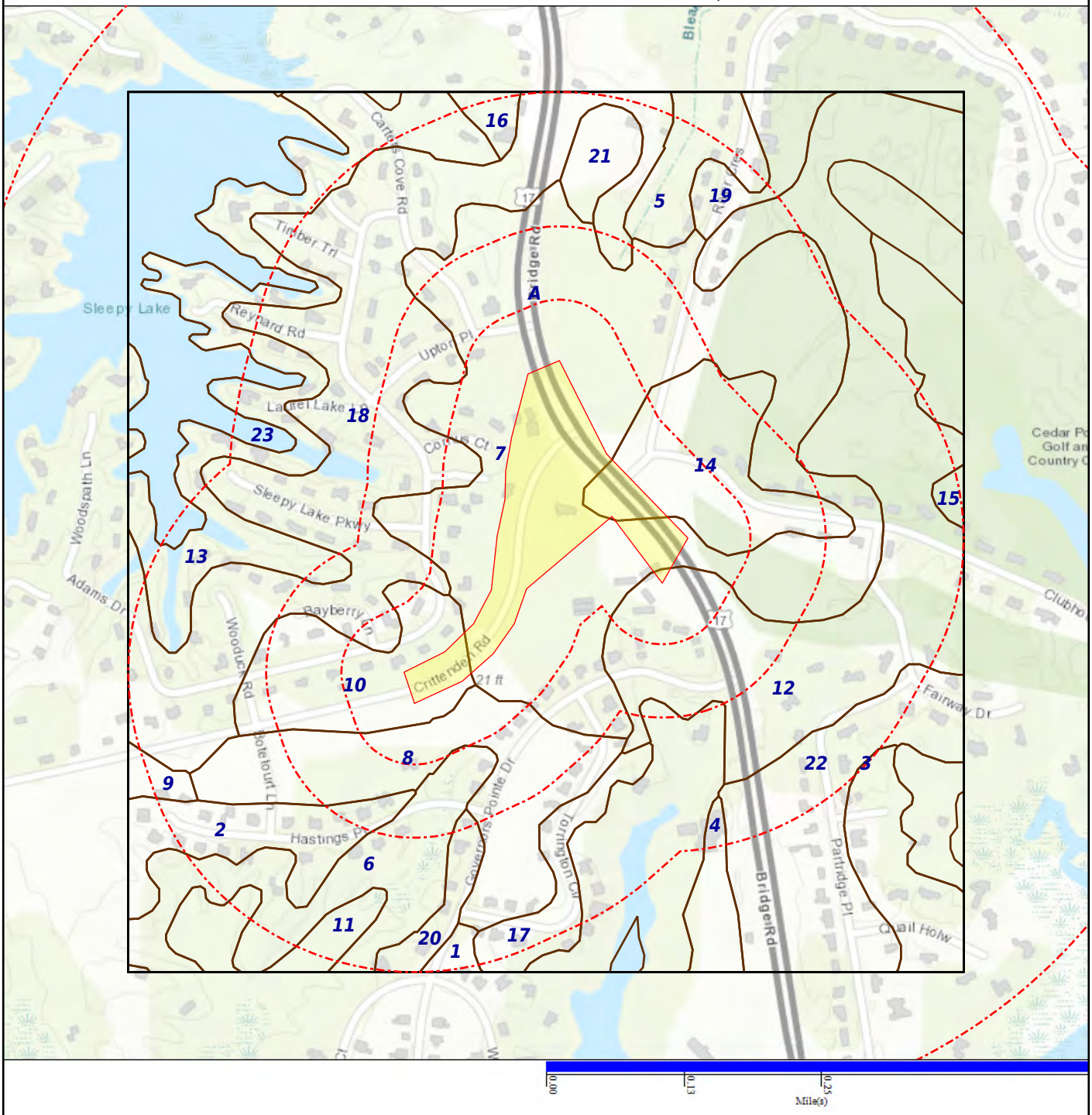
ROCK STRATIGRAPHIC UNIT:		GEOLOGIC AGE IDENTIFICATION
Era:	N/R	Category: 11 Tm Miocene
System:	N/R	
Series:	Miocene	
Code:	Tm	

SURROUNDING ELEVATION PROFILES:



SUBJECT NAME: Crittenden Road / Route 17
ADDRESS: Crittenden Road, Suffolk, VA 23433
LAT/LONG: 36.901183 / -76.497765

PREPARED FOR: MAP Environmental Inc
ORDER #: 34171
REPORT DATE: September 23, 2019



Subject Property — SSURGO — STATSGO

SOIL COMPOSITION IN GENERAL AREA OF SUBJECT PROPERTY:

Agency source: Soil Conservation Service, US Department of Agriculture

SOIL MAP ID 1

USDA Soil Name	Nansemond,Series
USDA Soil Texture	Fine sandy loam
Hydrologic Soil Group	B
Soil Drainage Class	Moderately well drained
Hydric Classification	10
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-8	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-5.5
2	8-29	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-5.5
3	29-70	Loamy fine sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM,	42-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	29-70	Loamy fine sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	1984).	42-141	3.6-5.5

SOIL MAP ID 2

USDA Soil Name	Kalmia,Taxadjunct
USDA Soil Texture	Fine sandy loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-22	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-6
2	22-34	Sandy clay loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4-14	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	22-34	Sandy clay loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
3	34-72	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42-141	4.5-5.5

SOIL MAP ID 3

USDA Soil Name	Nansemond,Series
USDA Soil Texture	Fine sandy loam
Hydrologic Soil Group	B
Soil Drainage Class	Moderately well drained
Hydric Classification	10
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-8	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM,	14-42	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-8	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	1984).	14-42	4.5-5.5
2	8-29	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-5.5
3	29-70	Loamy fine sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42-141	3.6-5.5

SOIL MAP ID 4

USDA Soil Name	Udorthents,Taxon above family
USDA Soil Texture	Not Reported
Hydrologic Soil Group	Not Reported
Soil Drainage Class	Not Reported
Hydric Classification	5
Corrosion Potential - Uncoated Steel	Not Reported

SOIL MAP ID 5

USDA Soil Name	Nansemond,Series
USDA Soil Texture	Loamy fine sand
Hydrologic Soil Group	B
Soil Drainage Class	Moderately well drained
Hydric Classification	15
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-18	Loamy fine sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-141	4.5-5.5
2	18-29	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-5.5
3	29-70	Loamy fine sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for	42-141	3.6-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	29-70	Loamy fine sand	material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42-141	3.6-5.5

SOIL MAP ID 6

USDA Soil Name	Nansemond,Series
USDA Soil Texture	Loamy fine sand
Hydrologic Soil Group	B
Soil Drainage Class	Moderately well drained
Hydric Classification	15
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-18	Loamy fine sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-141	4.5-5.5
2	18-29	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	29-70	Loamy fine sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42-141	3.6-5.5

SOIL MAP ID 7

USDA Soil Name	Dragston,Series
USDA Soil Texture	Fine sandy loam
Hydrologic Soil Group	A/D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	8
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-5.5
2	9-37	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	14-42	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	9-37	Fine sandy loam	of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-5.5
3	37-66	Fine sand	Granular materials (35% or less passing No. 200), silty or clayey gravel and sand. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42-141	4.5-5.5

SOIL MAP ID 8

USDA Soil Name	Nansemond,Series
USDA Soil Texture	Fine sandy loam
Hydrologic Soil Group	B
Soil Drainage Class	Moderately well drained
Hydric Classification	10
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-8	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM,	14-42	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-8	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	1984).	14-42	4.5-5.5
2	8-29	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-5.5
3	29-70	Loamy fine sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42-141	3.6-5.5

SOIL MAP ID 9

USDA Soil Name	Nansemond,Series
USDA Soil Texture	Fine sandy loam
Hydrologic Soil Group	B
Soil Drainage Class	Moderately well drained
Hydric Classification	10
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-8	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-5.5
2	8-29	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-5.5
3	29-70	Loamy fine sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42-141	3.6-5.5

SOIL MAP ID 10

USDA Soil Name	Nansemond,Series
USDA Soil Texture	Fine sandy loam
Hydrologic Soil Group	B
Soil Drainage Class	Moderately well drained
Hydric Classification	10
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-8	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-5.5
2	8-29	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-5.5
3	29-70	Loamy fine sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42-141	3.6-5.5

SOIL MAP ID 11

USDA Soil Name	Bohicket,Series
USDA Soil Texture	Silty clay loam
Hydrologic Soil Group	D
Soil Drainage Class	Very poorly drained
Hydric Classification	90
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.4	6.1-8.4
2	13-60	Silty clay	Silt-Clay materials (more than 35% passing No. 200), clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is 50% or more), Elastic Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.01-0.42	6.1-8.4

SOIL MAP ID 12

USDA Soil Name	Nansemond,Series
USDA Soil Texture	Fine sandy loam
Hydrologic Soil Group	B
Soil Drainage Class	Moderately well drained
Hydric Classification	10
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-8	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent	14-42	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-8	Fine sandy loam	construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-5.5
2	8-29	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-5.5
3	29-70	Loamy fine sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42-141	3.6-5.5

SOIL MAP ID 13

USDA Soil Name	Nansemond,Series
USDA Soil Texture	Loamy fine sand
Hydrologic Soil Group	B
Soil Drainage Class	Moderately well drained
Hydric Classification	15
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-18	Loamy fine sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-141	4.5-5.5
2	18-29	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-5.5
3	29-70	Loamy fine sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42-141	3.6-5.5

SOIL MAP ID 14

USDA Soil Name	Weston,Series
USDA Soil Texture	Fine sandy loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Poorly drained
Hydric Classification	90
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-8	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-6
2	8-39	Loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.4-4	4.5-6
3	39-62	Loamy sand	Granular materials (35% or less passing No. 200), silty or clayey gravel and sand. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.01-42	4.5-6

SOIL MAP ID 15

USDA Soil Name	Nansemond,Series
USDA Soil Texture	Loamy fine sand
Hydrologic Soil Group	B
Soil Drainage Class	Moderately well drained
Hydric Classification	15
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-18	Loamy fine sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-141	4.5-5.5
2	18-29	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-5.5
3	29-70	Loamy fine sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42-141	3.6-5.5

SOIL MAP ID 16

USDA Soil Name	Kenansville,Series
USDA Soil Texture	Loamy sand
Hydrologic Soil Group	A
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Loamy sand	Granular materials (35% or less passing No. 200), silty or clayey gravel and sand. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42-141	4.5-6
2	23-48	Sandy clay loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-42	4.5-6
3	48-72	Loamy sand	Granular materials (35% or less passing No. 200), silty or clayey gravel and sand. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42-141	4.5-6

SOIL MAP ID 17

USDA Soil Name	State,Series
USDA Soil Texture	Fine sandy loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-16	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-42	4.5-5.5
2	16-52	Sandy clay loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
3	52-65	Loamy sand	Granular materials (35% or less passing No. 200), silty or clayey gravel and sand. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-141	4.5-6

SOIL MAP ID 18

USDA Soil Name	Kalmia,Taxadjunct
USDA Soil Texture	Fine sandy loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-22	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-6
2	22-34	Sandy clay loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
3	34-72	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42-141	4.5-5.5

SOIL MAP ID 19

USDA Soil Name	Kalmia,Taxadjunct
USDA Soil Texture	Fine sandy loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-22	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-6
2	22-34	Sandy clay loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
3	34-72	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42-141	4.5-5.5

SOIL MAP ID 20

USDA Soil Name	Kalmia,Taxadjunct
USDA Soil Texture	Fine sandy loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-22	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-6
2	22-34	Sandy clay loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
3	34-72	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42-141	4.5-5.5

SOIL MAP ID 21

USDA Soil Name	Nansemond,Series
USDA Soil Texture	Fine sandy loam
Hydrologic Soil Group	B
Soil Drainage Class	Moderately well drained
Hydric Classification	10
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-8	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-5.5
2	8-29	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-5.5
3	29-70	Loamy fine sand	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42-141	3.6-5.5

SOIL MAP ID 22

USDA Soil Name	Kalmia,Taxadjunct
USDA Soil Texture	Fine sandy loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-22	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	14-42	4.5-6
2	22-34	Sandy clay loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, sands with fines, Clayey Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4-14	4.5-5.5
3	34-72	Fine sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	42-141	4.5-5.5

SOIL MAP ID 23

USDA Soil Name	Water,Miscellaneous area
USDA Soil Texture	Not Reported
Hydrologic Soil Group	Not Reported
Soil Drainage Class	Not Reported
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Not Reported

SOIL MAP ID A

USDA Soil Name	Tetotum,Series
USDA Soil Texture	Fine sandy loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	8
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-9	Fine sandy loam	No data	No data	14.1143-42.343	3.6-5.5
2	9-48	No data	No data	No data	4.2343-14.1143	3.6-5.5
3	48-72	Sandy clay loam	No data	No data	4.2343-141.1433	3.6-5.5

WATER AGENCY DATA:

WATER AGENCY SEARCH DISTANCES:

DATABASE:	SEARCH DISTANCE (MILES):
NWIS	1.000
OIL & GAS WELLS - VA	1.000
PWS	1.000

DISTANCE TO NEAREST:	DISTANCE:
NWIS	0.087 mi / 462 ft
OIL & GAS WELLS - VA	N/A
PWS	0.000 mi / 0 ft

FEDERAL WATER AGENCY DATA SUMMARY:

MAP ID:	WELL ID:	LOCATION FROM SP:
1	VA3800071	< 1/8 Mile N
A2	365408076300101	< 1/8 Mile WNW
A3	365408076300102	< 1/8 Mile WNW
4	VA3800245	1/8 - 1/4 Mile N
5	VA3800046	1/4 - 1/2 Mile N
6	VA3800300	1/4 - 1/2 Mile W
7	365359076291601	1/4 - 1/2 Mile E

FEDERAL WATER AGENCY DATA SUMMARY: *(cont.)*

MAP ID:	WELL ID:	LOCATION FROM SP:
8	ID4430023	1/4 - 1/2 Mile ENE
9	VA3800290	1/2 - 1 Mile WSW
10	365455076292101	1/2 - 1 Mile NNE
11	VA3800628	1/2 - 1 Mile NE

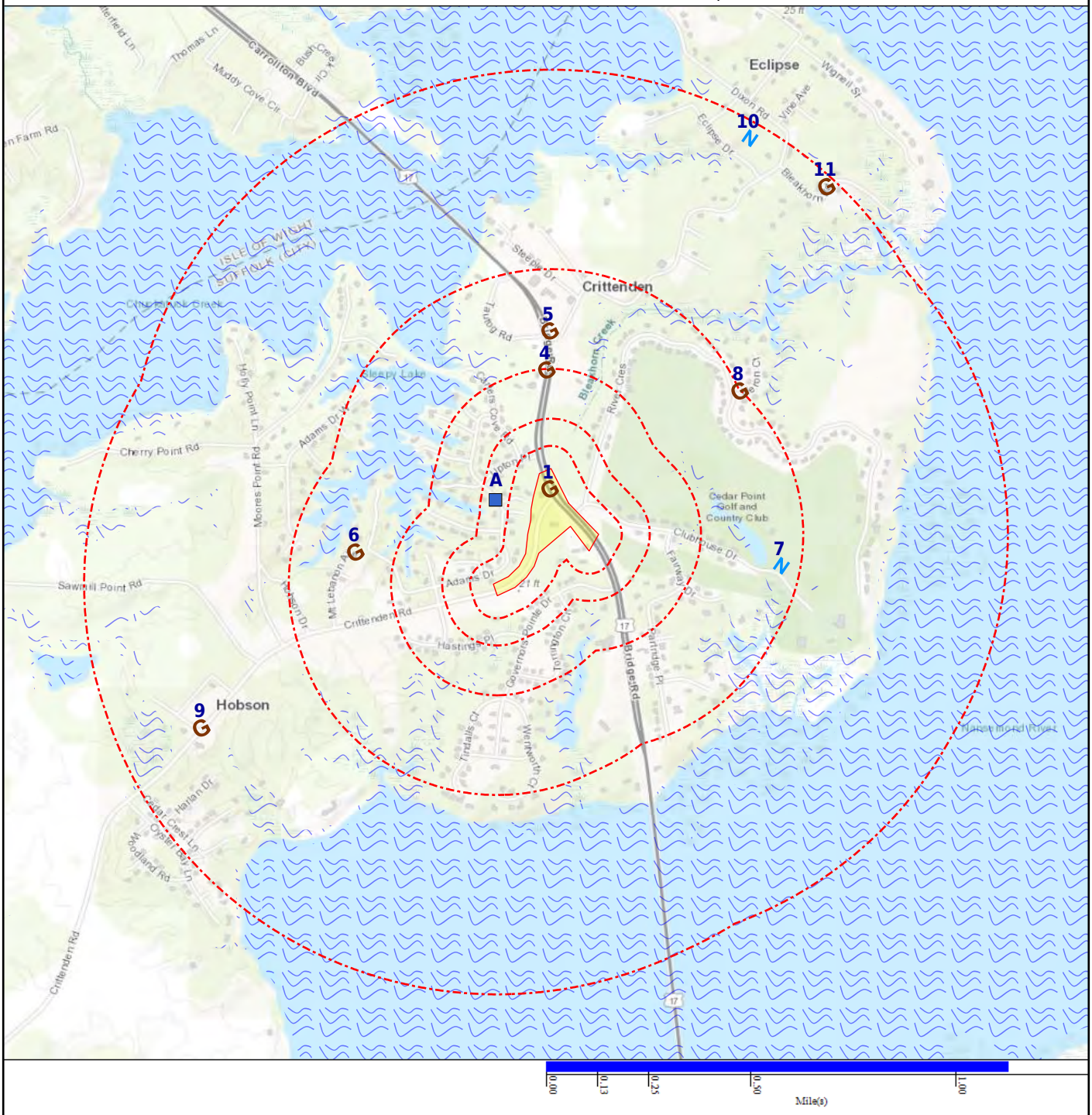
Note: PWS System location is not always the same as well location.

STATE/LOCAL WATER AGENCY DATA SUMMARY:

MAP ID:	WELL ID:	LOCATION FROM SP:
No Wells Found	N/R	N/R

SUBJECT NAME: Crittenden Road / Route 17
ADDRESS: Crittenden Road, Suffolk, VA 23433
LAT/LONG: 36.901183 / -76.497765

PREPARED FOR: MAP Environmental Inc
ORDER #: 34171
REPORT DATE: September 23, 2019



Map Id: 1
Direction: N
Distance: 0.000 mi.
Actual: 0.000 ft.
Elevation: 0.005 mi. / 24.295 ft.
Relative: Higher

Site Name : VA3800071
1753 BRIDGE RD
SUFFOLK, VA 23433

Database(s) : [PWS, PWS ENF]

Envirosite ID: 358193496
EPA ID: N/R

PWS

Facility Address :	1753 BRIDGE RD, SUFFOLK, VA 23433
PWS ID :	VA3800071
PWS Type :	Transient non-community system
PWS Name :	SEVEN ELEVEN SOUTHLAND CORP
Activity Status :	Inactive
Primary Source :	Ground water
Submission Year :	2019
Submission Year Quarter :	2019Q2
Population Served Count :	200
Service Connections Count :	1
Population Category 2 :	<10,000
Population Category 3 :	<=3300
Population Category 4 :	<10K
Population Category 5 :	<=500
Population Category 11 :	101-500
Submission Quarter :	2
Submission Status Code :	Y
First Reported Date :	01/24/1981
Last Reported Date :	11/14/2000
Deactivation Date :	01/01/1997
GW or SW :	Groundwater
Is Grant Eligible :	N
Is Outstanding Performer :	N/R
Is School or Daycare :	N
Is Source Water Protected :	N/R
Primacy Agency :	Virginia
Primacy Type :	State
Org Name :	N/R
EPA Region :	Region 3
Admin Name :	SEVEN ELEVEN SOUTHLAND CORP
Owner Type :	Unknown Owner Type
Phone Number :	804-238-9486
Phone Ext Number :	N/R
Alt Phone Number :	N/R
Email Address :	N/R
Fax Number :	N/R
Is Wholesaler :	N
LT2 Schedule Category :	N/R
NPM Candidate :	N
CDS ID :	N/R
DBPR Schedule Category :	N/R
Outstanding Performer Date :	N/R
Season Begin Date :	01-01
Season End Date :	12-31
Source Water Protection Date :	N/R
Seasonal Startup System :	N/R
Reduced Monitoring Begin Date :	N/R
Reduced Monitoring End Date :	N/R
Reduced RTCR Monitoring :	N/R
Last Date in Agency List :	07/25/2019

PWS ENF

Facility Address :	1753 BRIDGE RD, SUFFOLK, VA 23433

Map Id: 1
Direction: N
Distance: 0.000 mi.
Actual: 0.000 ft.
Elevation: 0.005 mi. / 24.295 ft.
Relative: Higher

Site Name : VA3800071
1753 BRIDGE RD
SUFFOLK, VA 23433

Database(s) : [PWS, PWS ENF] ***(cont.)***

Envirosite ID: 358193496
EPA ID: N/R

PWS ENF ***(cont.)***

PWS ID :	VA3800071
PWS Name :	SEVEN ELEVEN SOUTHLAND CORP
EPA Region :	Region 3
Primacy Agency :	Virginia
PWS Type :	Transient non-community system
Primacy Type :	State
Primary Source :	Ground water
Activity Status :	Inactive
Deactivation Date :	01/01/1997
Owner Type :	Unknown Owner Type
Phone Number :	804-238-9486
Last Date in Agency List :	07/25/2019

Violation Details

RTC Enforcement ID :	N/R
Violation ID :	2049581
Submission Year :	2019
Violation First Reported Date :	09/30/1981
Contaminant Name :	Nitrate
Rule Family :	Inorganic Chemicals
Rule Group :	Chemicals
Rule Name :	Nitrates
Violation Type :	Monitoring, Regular
Is Health Based :	N
Is Major Violation :	Y
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	SUFFOLK, 23433
Address Line 2 :	1753 BRIDGE RD
Compliance Status :	System Inactive
RTC Date :	01/01/1997
Enforcement Action Description :	N/R
Admin Name :	SEVEN ELEVEN SOUTHLAND CORP
Email Address :	N/R

Map Id: A2
Direction: WNW
Distance: 0.087 mi.
Actual: 461.584 ft.
Elevation: 0.003 mi. / 17.51 ft.
Relative: Lower

Site Name : 365408076300101
36.90237067, -76.49994950
VA

Database(s) : [NWIS]

Envirosite ID: 404444457
EPA ID: N/R

NWIS

Site Identification Number :	365408076300101
Site Type :	Well
Station Name :	58D 10
Agency :	U.S. Geological Survey
District :	Virginia
State :	VA

Map Id: A2
Direction: WNW
Distance: 0.087 mi.
Actual: 461.584 ft.
Elevation: 0.003 mi. / 17.51 ft.
Relative: Lower

Site Name : 365408076300101
36.90237067, -76.49994950
VA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 404444457
EPA ID: N/R

NWIS ***(cont.)***

County :	Suffolk City
Country :	USA
Land Net Location :	N/R
Name of Location Map :	BENNS CHURCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	15.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.0
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Hampton Roads
Drainage Basin :	N/R
Topographic Setting :	N/R
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	19901213
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Unchecked data.
Data-other GW Files :	NYNNNNNN
National Aquifer :	N/R
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	561.00
Hole Depth :	561.00
Source of Depth Data :	D
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Data Begin Date :	N/R
Field Water-Level Data End Date :	N/R
Field Water-Level Data Count :	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.90237067
Longitude :	-76.49994950
Last Date in Agency List :	06/21/2019

Map Id: A3
Direction: WNW
Distance: 0.087 mi.
Actual: 461.584 ft.
Elevation: 0.003 mi. / 17.51 ft.
Relative: Lower

Site Name : 365408076300102
36.90237067, -76.49994950
VA

Database(s) : [NWIS]

Envirosite ID: 404464207
EPA ID: N/R

NWIS

Site Identification Number :	365408076300102
Site Type :	Well
Station Name :	58D 11
Agency :	U.S. Geological Survey
District :	Virginia
State :	VA
County :	Suffolk City
Country :	USA
Land Net Location :	N/R
Name of Location Map :	BENNS CHURCH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	23.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	5.0
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Hampton Roads
Drainage Basin :	N/R
Topographic Setting :	N/R
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	19901213
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Unchecked data.
Data-other GW Files :	YYYNNNNN
National Aquifer :	N/R
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	550.00
Hole Depth :	550.00
Source of Depth Data :	D
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Data Begin Date :	1967-02-24
Field Water-Level Data End Date :	1967-02-24
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.90237067
Longitude :	-76.49994950
Last Date in Agency List :	06/21/2019

Map Id: 4
Direction: N
Distance: 0.243 mi.
Actual: 1284.129 ft.
Elevation: 0.004 mi. / 23.041 ft.
Relative: Higher

Site Name : VA3800245
1601 BRIDGE ROAD
SUFFOLK, VA 23433

Database(s) : [PWS, PWS ENF]

Envirosite ID: 358196792
EPA ID: N/R

PWS

Facility Address :	1601 BRIDGE ROAD, SUFFOLK, VA 23433
PWS ID :	VA3800245
PWS Type :	Transient non-community system
PWS Name :	GOLDEN STAR
Activity Status :	Inactive
Primary Source :	Ground water
Submission Year :	2019
Submission Year Quarter :	2019Q2
Population Served Count :	100
Service Connections Count :	5
Population Category 2 :	<10,000
Population Category 3 :	<=3300
Population Category 4 :	<10K
Population Category 5 :	<=500
Population Category 11 :	<=100
Submission Quarter :	2
Submission Status Code :	Y
First Reported Date :	01/24/1981
Last Reported Date :	02/22/2008
Deactivation Date :	12/22/1998
GW or SW :	Groundwater
Is Grant Eligible :	N
Is Outstanding Performer :	N/R
Is School or Daycare :	N
Is Source Water Protected :	N/R
Primacy Agency :	Virginia
Primacy Type :	State
Org Name :	N/R
EPA Region :	Region 3
Admin Name :	WILLIS, LEONARD
Owner Type :	Private
Phone Number :	N/R
Phone Ext Number :	N/R
Alt Phone Number :	N/R
Email Address :	N/R
Fax Number :	N/R
Is Wholesaler :	N
LT2 Schedule Category :	N/R
NPM Candidate :	N
CDS ID :	N/R
DBPR Schedule Category :	N/R
Outstanding Performer Date :	N/R
Season Begin Date :	01-01
Season End Date :	12-31
Source Water Protection Date :	N/R
Seasonal Startup System :	N/R
Reduced Monitoring Begin Date :	N/R
Reduced Monitoring End Date :	N/R
Reduced RTCR Monitoring :	N/R
Last Date in Agency List :	07/25/2019

PWS ENF

Facility Address :	1601 BRIDGE ROAD, SUFFOLK, VA 23433

Map Id: 4
Direction: N
Distance: 0.243 mi.
Actual: 1284.129 ft.
Elevation: 0.004 mi. / 23.041 ft.
Relative: Higher

Site Name : VA3800245
1601 BRIDGE ROAD
SUFFOLK, VA 23433

Database(s) : [PWS, PWS ENF] ***(cont.)***

Envirosite ID: 358196792
EPA ID: N/R

PWS ENF ***(cont.)***

PWS ID :	VA3800245
PWS Name :	GOLDEN STAR
EPA Region :	Region 3
Primacy Agency :	Virginia
PWS Type :	Transient non-community system
Primacy Type :	State
Primary Source :	Ground water
Activity Status :	Inactive
Deactivation Date :	12/22/1998
Owner Type :	Private
Phone Number :	N/R
Last Date in Agency List :	07/25/2019

Violation Details

RTC Enforcement ID :	N/R
Violation ID :	2050181
Submission Year :	2019
Violation First Reported Date :	09/30/1981
Contaminant Name :	Nitrate
Rule Family :	Inorganic Chemicals
Rule Group :	Chemicals
Rule Name :	Nitrates
Violation Type :	Monitoring, Regular
Is Health Based :	N
Is Major Violation :	Y
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	1601 BRIDGE ROAD, SUFFOLK, 23433
Address Line 2 :	N/R
Compliance Status :	System Inactive
RTC Date :	12/22/1998
Enforcement Action Description :	N/R
Admin Name :	WILLIS, LEONARD
Email Address :	N/R

Map Id: 5
Direction: N
Distance: 0.340 mi.
Actual: 1797.696 ft.
Elevation: 0.005 mi. / 23.839 ft.
Relative: Higher

Site Name : VA3800046
1600 BRIDGE RD
SUFFOLK, VA 23433

Database(s) : [PWS]

Envirosite ID: 358297620
EPA ID: N/R

PWS

Facility Address :	1600 BRIDGE RD, SUFFOLK, VA 23433
PWS ID :	VA3800046
PWS Type :	Transient non-community system
PWS Name :	BOONES TRADING POST

Map Id: 5
Direction: N
Distance: 0.340 mi.
Actual: 1797.696 ft.
Elevation: 0.005 mi. / 23.839 ft.
Relative: Higher

Site Name : VA3800046
1600 BRIDGE RD
SUFFOLK, VA 23433

Database(s) : [PWS] ***(cont.)***

Envirosite ID: 358297620
EPA ID: N/R

PWS ***(cont.)***

Activity Status :	Inactive
Primary Source :	Ground water
Submission Year :	2019
Submission Year Quarter :	2019Q2
Population Served Count :	50
Service Connections Count :	1
Population Category 2 :	<10,000
Population Category 3 :	<=3300
Population Category 4 :	<10K
Population Category 5 :	<=500
Population Category 11 :	<=100
Submission Quarter :	2
Submission Status Code :	Y
First Reported Date :	01/12/1983
Last Reported Date :	02/22/2008
Deactivation Date :	09/01/1989
GW or SW :	Groundwater
Is Grant Eligible :	N
Is Outstanding Performer :	N/R
Is School or Daycare :	N
Is Source Water Protected :	N/R
Primacy Agency :	Virginia
Primacy Type :	State
Org Name :	N/R
EPA Region :	Region 3
Admin Name :	BOONES TRADING POST
Owner Type :	Private
Phone Number :	N/R
Phone Ext Number :	N/R
Alt Phone Number :	N/R
Email Address :	N/R
Fax Number :	N/R
Is Wholesaler :	N
LT2 Schedule Category :	N/R
NPM Candidate :	N
CDS ID :	N/R
DBPR Schedule Category :	N/R
Outstanding Performer Date :	N/R
Season Begin Date :	01-01
Season End Date :	12-31
Source Water Protection Date :	N/R
Seasonal Startup System :	N/R
Reduced Monitoring Begin Date :	N/R
Reduced Monitoring End Date :	N/R
Reduced RTCR Monitoring :	N/R
Last Date in Agency List :	07/25/2019

Map Id: 6
Direction: W
Distance: 0.348 mi.
Actual: 1834.976 ft.
Elevation: 0.004 mi. / 22.234 ft.
Relative: Lower

Site Name : VA3800300
1665 MT. LEBANON AVENUE
SUFFOLK, VA 23436

Database(s) : [PWS, PWS ENF]

Envirosite ID: 358193614
EPA ID: N/R

PWS

Facility Address :	1665 Mt. Lebanon Avenue, SUFFOLK, VA 23436
PWS ID :	VA3800300
PWS Type :	Community water system
PWS Name :	HOBSON MT. LEBANON
Activity Status :	Inactive
Primary Source :	Ground water
Submission Year :	2019
Submission Year Quarter :	2019Q2
Population Served Count :	102
Service Connections Count :	34
Population Category 2 :	<10,000
Population Category 3 :	<=3300
Population Category 4 :	<10K
Population Category 5 :	<=500
Population Category 11 :	101-500
Submission Quarter :	2
Submission Status Code :	Y
First Reported Date :	02/10/1979
Last Reported Date :	05/12/2010
Deactivation Date :	04/07/2010
GW or SW :	Groundwater
Is Grant Eligible :	N
Is Outstanding Performer :	N/R
Is School or Daycare :	N
Is Source Water Protected :	N
Primacy Agency :	Virginia
Primacy Type :	State
Org Name :	SPRATLEY, DOUGLAS
EPA Region :	Region 3
Admin Name :	SPRATLEY, DOUGLAS
Owner Type :	Private
Phone Number :	757-238-9507
Phone Ext Number :	N/R
Alt Phone Number :	N/R
Email Address :	N/R
Fax Number :	757-238-8179
Is Wholesaler :	N
LT2 Schedule Category :	N/R
NPM Candidate :	N
CDS ID :	N/R
DBPR Schedule Category :	N/R
Outstanding Performer Date :	N/R
Season Begin Date :	N/R
Season End Date :	N/R
Source Water Protection Date :	N/R
Seasonal Startup System :	N/R
Reduced Monitoring Begin Date :	N/R
Reduced Monitoring End Date :	N/R
Reduced RTCR Monitoring :	N/R
Last Date in Agency List :	07/25/2019

PWS ENF

Facility Address :	1665 Mt. Lebanon Avenue, SUFFOLK, VA 23436

Map Id: 6
Direction: W
Distance: 0.348 mi.
Actual: 1834.976 ft.
Elevation: 0.004 mi. / 22.234 ft.
Relative: Lower

Site Name : VA3800300
1665 MT. LEBANON AVENUE
SUFFOLK, VA 23436

Database(s) : [PWS, PWS ENF] ***(cont.)***

Envirosite ID: 358193614
EPA ID: N/R

PWS ENF ***(cont.)***

PWS ID :	VA3800300
PWS Name :	HOBSON MT. LEBANON
EPA Region :	Region 3
Primacy Agency :	Virginia
PWS Type :	Community water system
Primacy Type :	State
Primary Source :	Ground water
Activity Status :	Inactive
Deactivation Date :	04/07/2010
Owner Type :	Private
Phone Number :	757-238-9507
Last Date in Agency List :	07/25/2019

Violation Details

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your Envirosite account representative for a complimentary site report containing all of the details available.

RTC Enforcement ID :	171900
Violation ID :	100
Submission Year :	2019
Violation First Reported Date :	05/27/2000
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Routine Major (TCR)
Is Health Based :	N
Is Major Violation :	Y
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	1665 Mt. Lebanon Avenue, SUFFOLK, 23436
Address Line 2 :	N/R
Compliance Status :	Returned to Compliance
RTC Date :	05/12/2000
Enforcement Action Description :	State Compliance achieved
Admin Name :	SPRATLEY, DOUGLAS
Email Address :	N/R

RTC Enforcement ID :	172600
Violation ID :	200
Submission Year :	2019
Violation First Reported Date :	08/31/2000
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Routine Major (TCR)
Is Health Based :	N
Is Major Violation :	Y
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	1665 Mt. Lebanon Avenue, SUFFOLK, 23436

Map Id: 6
Direction: W
Distance: 0.348 mi.
Actual: 1834.976 ft.
Elevation: 0.004 mi. / 22.234 ft.
Relative: Lower

Site Name : VA3800300
1665 MT. LEBANON AVENUE
SUFFOLK, VA 23436

Database(s) : [PWS, PWS ENF] ***(cont.)***

Envirosite ID: 358193614
EPA ID: N/R

PWS ENF ***(cont.)***

Address Line 2 :	N/R
Compliance Status :	Returned to Compliance
RTC Date :	07/25/2000
Enforcement Action Description :	State Compliance achieved
Admin Name :	SPRATLEY, DOUGLAS
Email Address :	N/R

RTC Enforcement ID :	389006
Violation ID :	3277306
Submission Year :	2019
Violation First Reported Date :	05/22/2006
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Routine Major (TCR)
Is Health Based :	N
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	1665 Mt. Lebanon Avenue, SUFFOLK, 23436
Address Line 2 :	N/R
Compliance Status :	Returned to Compliance
RTC Date :	08/11/2006
Enforcement Action Description :	State Compliance achieved
Admin Name :	SPRATLEY, DOUGLAS
Email Address :	N/R

RTC Enforcement ID :	389006
Violation ID :	3277406
Submission Year :	2019
Violation First Reported Date :	05/22/2006
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Routine Major (TCR)
Is Health Based :	N
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	1665 Mt. Lebanon Avenue, SUFFOLK, 23436
Address Line 2 :	N/R
Compliance Status :	Returned to Compliance
RTC Date :	08/11/2006
Enforcement Action Description :	State Compliance achieved
Admin Name :	SPRATLEY, DOUGLAS
Email Address :	N/R

RTC Enforcement ID :	389006
Violation ID :	3277506
Submission Year :	2019
Violation First Reported Date :	05/22/2006
Contaminant Name :	Coliform (TCR)

Map Id: 6
Direction: W
Distance: 0.348 mi.
Actual: 1834.976 ft.
Elevation: 0.004 mi. / 22.234 ft.
Relative: Lower

Site Name : VA3800300
1665 MT. LEBANON AVENUE
SUFFOLK, VA 23436

Database(s) : [PWS, PWS ENF] ***(cont.)***

Envirosite ID: 358193614
EPA ID: N/R

PWS ENF ***(cont.)***

Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Routine Major (TCR)
Is Health Based :	N
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	1665 Mt. Lebanon Avenue, SUFFOLK, 23436
Address Line 2 :	N/R
Compliance Status :	Returned to Compliance
RTC Date :	08/11/2006
Enforcement Action Description :	State Compliance achieved
Admin Name :	SPRATLEY, DOUGLAS
Email Address :	N/R

RTC Enforcement ID :	389006
Violation ID :	3276606
Submission Year :	2019
Violation First Reported Date :	02/16/2006
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Routine Major (TCR)
Is Health Based :	N
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	1665 Mt. Lebanon Avenue, SUFFOLK, 23436
Address Line 2 :	N/R
Compliance Status :	Returned to Compliance
RTC Date :	08/11/2006
Enforcement Action Description :	State Compliance achieved
Admin Name :	SPRATLEY, DOUGLAS
Email Address :	N/R

RTC Enforcement ID :	389006
Violation ID :	3277006
Submission Year :	2019
Violation First Reported Date :	02/16/2006
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Routine Major (TCR)
Is Health Based :	N
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	1665 Mt. Lebanon Avenue, SUFFOLK, 23436
Address Line 2 :	N/R
Compliance Status :	Returned to Compliance
RTC Date :	08/11/2006
Enforcement Action Description :	State Compliance achieved

Map Id: 6
Direction: W
Distance: 0.348 mi.
Actual: 1834.976 ft.
Elevation: 0.004 mi. / 22.234 ft.
Relative: Lower

Site Name : VA3800300
1665 MT. LEBANON AVENUE
SUFFOLK, VA 23436

Database(s) : [PWS, PWS ENF] ***(cont.)***

Envirosite ID: 358193614
EPA ID: N/R

PWS ENF ***(cont.)***

Admin Name :	SPRATLEY, DOUGLAS
Email Address :	N/R
RTC Enforcement ID :	389006
Violation ID :	3276305
Submission Year :	2019
Violation First Reported Date :	11/23/2005
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Routine Major (TCR)
Is Health Based :	N
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	1665 Mt. Lebanon Avenue, SUFFOLK, 23436
Address Line 2 :	N/R
Compliance Status :	Returned to Compliance
RTC Date :	08/11/2006
Enforcement Action Description :	State Compliance achieved
Admin Name :	SPRATLEY, DOUGLAS
Email Address :	N/R
RTC Enforcement ID :	389006
Violation ID :	3276406
Submission Year :	2019
Violation First Reported Date :	11/23/2005
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Routine Major (TCR)
Is Health Based :	N
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	1665 Mt. Lebanon Avenue, SUFFOLK, 23436
Address Line 2 :	N/R
Compliance Status :	Returned to Compliance
RTC Date :	08/11/2006
Enforcement Action Description :	State Compliance achieved
Admin Name :	SPRATLEY, DOUGLAS
Email Address :	N/R
RTC Enforcement ID :	389006
Violation ID :	3276205
Submission Year :	2019
Violation First Reported Date :	08/31/2005
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Routine Major (TCR)

Map Id: 6
Direction: W
Distance: 0.348 mi.
Actual: 1834.976 ft.
Elevation: 0.004 mi. / 22.234 ft.
Relative: Lower

Site Name : VA3800300
1665 MT. LEBANON AVENUE
SUFFOLK, VA 23436

Database(s) : [PWS, PWS ENF] ***(cont.)***

Envirosite ID: 358193614
EPA ID: N/R

PWS ENF ***(cont.)***

Is Health Based :	N
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	1665 Mt. Lebanon Avenue, SUFFOLK, 23436
Address Line 2 :	N/R
Compliance Status :	Returned to Compliance
RTC Date :	08/11/2006
Enforcement Action Description :	State Compliance achieved
Admin Name :	SPRATLEY, DOUGLAS
Email Address :	N/R

RTC Enforcement ID :	390708
Violation ID :	3276706
Submission Year :	2019
Violation First Reported Date :	02/16/2006
Contaminant Name :	Consumer Confidence Rule
Rule Family :	Consumer Confidence Rule
Rule Group :	Other
Rule Name :	Consumer Confidence Rule
Violation Type :	Consumer Confidence Report Complete Failure to Report
Is Health Based :	N
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	1665 Mt. Lebanon Avenue, SUFFOLK, 23436
Address Line 2 :	N/R
Compliance Status :	Returned to Compliance
RTC Date :	11/26/2007
Enforcement Action Description :	State Compliance achieved
Admin Name :	SPRATLEY, DOUGLAS
Email Address :	N/R

RTC Enforcement ID :	390924
Violation ID :	3277706
Submission Year :	2019
Violation First Reported Date :	08/25/2006
Contaminant Name :	Lead and Copper Rule
Rule Family :	Lead and Copper Rule
Rule Group :	Chemicals
Rule Name :	Lead and Copper Rule
Violation Type :	Follow-up Or Routine LCR Tap M/R
Is Health Based :	N
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	1665 Mt. Lebanon Avenue, SUFFOLK, 23436
Address Line 2 :	N/R
Compliance Status :	Returned to Compliance
RTC Date :	12/12/2008
Enforcement Action Description :	State Compliance achieved
Admin Name :	SPRATLEY, DOUGLAS
Email Address :	N/R

Map Id: 6
Direction: W
Distance: 0.348 mi.
Actual: 1834.976 ft.
Elevation: 0.004 mi. / 22.234 ft.
Relative: Lower

Site Name : VA3800300
1665 MT. LEBANON AVENUE
SUFFOLK, VA 23436

Database(s) : [PWS, PWS ENF] ***(cont.)***

Envirosite ID: 358193614
EPA ID: N/R

PWS ENF ***(cont.)***

RTC Enforcement ID :	390929
Violation ID :	3278207
Submission Year :	2019
Violation First Reported Date :	02/23/2007
Contaminant Name :	Nitrate-Nitrite
Rule Family :	Inorganic Chemicals
Rule Group :	Chemicals
Rule Name :	Nitrates
Violation Type :	Monitoring, Regular
Is Health Based :	N
Is Major Violation :	Y
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	1665 Mt. Lebanon Avenue, SUFFOLK, 23436
Address Line 2 :	N/R
Compliance Status :	Returned to Compliance
RTC Date :	02/10/2009
Enforcement Action Description :	State Compliance achieved
Admin Name :	SPRATLEY, DOUGLAS
Email Address :	N/R

RTC Enforcement ID :	N/R
Violation ID :	3278821
Submission Year :	2019
Violation First Reported Date :	05/13/2010
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Routine Major (TCR)
Is Health Based :	N
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	1665 Mt. Lebanon Avenue, SUFFOLK, 23436
Address Line 2 :	N/R
Compliance Status :	System Inactive
RTC Date :	04/07/2010
Enforcement Action Description :	State Public Notification requested
Admin Name :	SPRATLEY, DOUGLAS
Email Address :	N/R

RTC Enforcement ID :	N/R
Violation ID :	3278819
Submission Year :	2019
Violation First Reported Date :	02/18/2010
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Routine Major (TCR)
Is Health Based :	N
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	3

Map Id: 6
Direction: W
Distance: 0.348 mi.
Actual: 1834.976 ft.
Elevation: 0.004 mi. / 22.234 ft.
Relative: Lower

Site Name : VA3800300
1665 MT. LEBANON AVENUE
SUFFOLK, VA 23436

Database(s) : [PWS, PWS ENF] ***(cont.)***

Envirosite ID: 358193614
EPA ID: N/R

PWS ENF ***(cont.)***

Address Line 1 :	1665 Mt. Lebanon Avenue, SUFFOLK, 23436
Address Line 2 :	N/R
Compliance Status :	System Inactive
RTC Date :	04/07/2010
Enforcement Action Description :	State Public Notification received
Admin Name :	SPRATLEY, DOUGLAS
Email Address :	N/R

RTC Enforcement ID :	N/R
Violation ID :	3278820
Submission Year :	2019
Violation First Reported Date :	02/18/2010
Contaminant Name :	Fluoride
Rule Family :	Inorganic Chemicals
Rule Group :	Chemicals
Rule Name :	Inorganic Chemicals
Violation Type :	Maximum Contaminant Level Violation, Average
Is Health Based :	Y
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	2
Address Line 1 :	1665 Mt. Lebanon Avenue, SUFFOLK, 23436
Address Line 2 :	N/R
Compliance Status :	System Inactive
RTC Date :	04/07/2010
Enforcement Action Description :	State Public Notification received
Admin Name :	SPRATLEY, DOUGLAS
Email Address :	N/R

RTC Enforcement ID :	N/R
Violation ID :	3278817
Submission Year :	2019
Violation First Reported Date :	11/25/2009
Contaminant Name :	Consumer Confidence Rule
Rule Family :	Consumer Confidence Rule
Rule Group :	Other
Rule Name :	Consumer Confidence Rule
Violation Type :	Consumer Confidence Report Complete Failure to Report
Is Health Based :	N
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	1665 Mt. Lebanon Avenue, SUFFOLK, 23436
Address Line 2 :	N/R
Compliance Status :	System Inactive
RTC Date :	04/07/2010
Enforcement Action Description :	State Formal Notice of Violation issued
Admin Name :	SPRATLEY, DOUGLAS
Email Address :	N/R

RTC Enforcement ID :	N/R
Violation ID :	3278818
Submission Year :	2019
Violation First Reported Date :	11/25/2009

Map Id: 6
Direction: W
Distance: 0.348 mi.
Actual: 1834.976 ft.
Elevation: 0.004 mi. / 22.234 ft.
Relative: Lower

Site Name : VA3800300
1665 MT. LEBANON AVENUE
SUFFOLK, VA 23436

Database(s) : [PWS, PWS ENF] ***(cont.)***

Envirosite ID: 358193614
EPA ID: N/R

PWS ENF ***(cont.)***

Contaminant Name :	Fluoride
Rule Family :	Inorganic Chemicals
Rule Group :	Chemicals
Rule Name :	Inorganic Chemicals
Violation Type :	Maximum Contaminant Level Violation, Average
Is Health Based :	Y
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	2
Address Line 1 :	1665 Mt. Lebanon Avenue, SUFFOLK, 23436
Address Line 2 :	N/R
Compliance Status :	System Inactive
RTC Date :	04/07/2010
Enforcement Action Description :	State Public Notification requested
Admin Name :	SPRATLEY, DOUGLAS
Email Address :	N/R

RTC Enforcement ID :	N/R
Violation ID :	3278815
Submission Year :	2019
Violation First Reported Date :	08/20/2009
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Routine Major (TCR)
Is Health Based :	N
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	1665 Mt. Lebanon Avenue, SUFFOLK, 23436
Address Line 2 :	N/R
Compliance Status :	System Inactive
RTC Date :	04/07/2010
Enforcement Action Description :	State Public Notification received
Admin Name :	SPRATLEY, DOUGLAS
Email Address :	N/R

RTC Enforcement ID :	N/R
Violation ID :	3278816
Submission Year :	2019
Violation First Reported Date :	08/20/2009
Contaminant Name :	Fluoride
Rule Family :	Inorganic Chemicals
Rule Group :	Chemicals
Rule Name :	Inorganic Chemicals
Violation Type :	Maximum Contaminant Level Violation, Average
Is Health Based :	Y
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	2
Address Line 1 :	1665 Mt. Lebanon Avenue, SUFFOLK, 23436
Address Line 2 :	N/R
Compliance Status :	System Inactive
RTC Date :	04/07/2010

Map Id: 6
Direction: W
Distance: 0.348 mi.
Actual: 1834.976 ft.
Elevation: 0.004 mi. / 22.234 ft.
Relative: Lower

Site Name : VA3800300
1665 MT. LEBANON AVENUE
SUFFOLK, VA 23436

Database(s) : [PWS, PWS ENF] ***(cont.)***

Envirosite ID: 358193614
EPA ID: N/R

PWS ENF ***(cont.)***

Enforcement Action Description :	State Public Notification received
Admin Name :	SPRATLEY, DOUGLAS
Email Address :	N/R

RTC Enforcement ID :	N/R
Violation ID :	3278814
Submission Year :	2019
Violation First Reported Date :	05/22/2009
Contaminant Name :	Fluoride
Rule Family :	Inorganic Chemicals
Rule Group :	Chemicals
Rule Name :	Inorganic Chemicals
Violation Type :	Maximum Contaminant Level Violation, Average
Is Health Based :	Y
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	2
Address Line 1 :	1665 Mt. Lebanon Avenue, SUFFOLK, 23436
Address Line 2 :	N/R
Compliance Status :	System Inactive
RTC Date :	04/07/2010
Enforcement Action Description :	State Public Notification received
Admin Name :	SPRATLEY, DOUGLAS
Email Address :	N/R

RTC Enforcement ID :	N/R
Violation ID :	3278812
Submission Year :	2019
Violation First Reported Date :	02/19/2009
Contaminant Name :	Fluoride
Rule Family :	Inorganic Chemicals
Rule Group :	Chemicals
Rule Name :	Inorganic Chemicals
Violation Type :	Maximum Contaminant Level Violation, Average
Is Health Based :	Y
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	2
Address Line 1 :	1665 Mt. Lebanon Avenue, SUFFOLK, 23436
Address Line 2 :	N/R
Compliance Status :	System Inactive
RTC Date :	04/07/2010
Enforcement Action Description :	State Public Notification requested
Admin Name :	SPRATLEY, DOUGLAS
Email Address :	N/R

RTC Enforcement ID :	N/R
Violation ID :	3278811
Submission Year :	2019
Violation First Reported Date :	11/19/2008
Contaminant Name :	Fluoride
Rule Family :	Inorganic Chemicals
Rule Group :	Chemicals
Rule Name :	Inorganic Chemicals

Map Id: 6
Direction: W
Distance: 0.348 mi.
Actual: 1834.976 ft.
Elevation: 0.004 mi. / 22.234 ft.
Relative: Lower

Site Name : VA3800300
1665 MT. LEBANON AVENUE
SUFFOLK, VA 23436

Database(s) : [PWS, PWS ENF] ***(cont.)***

Envirosite ID: 358193614
EPA ID: N/R

PWS ENF ***(cont.)***

Violation Type :	Maximum Contaminant Level Violation, Average
Is Health Based :	Y
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	2
Address Line 1 :	1665 Mt. Lebanon Avenue, SUFFOLK, 23436
Address Line 2 :	N/R
Compliance Status :	System Inactive
RTC Date :	04/07/2010
Enforcement Action Description :	State Public Notification received
Admin Name :	SPRATLEY, DOUGLAS
Email Address :	N/R

RTC Enforcement ID :	N/R
Violation ID :	3278810
Submission Year :	2019
Violation First Reported Date :	08/26/2008
Contaminant Name :	Fluoride
Rule Family :	Inorganic Chemicals
Rule Group :	Chemicals
Rule Name :	Inorganic Chemicals
Violation Type :	Maximum Contaminant Level Violation, Average
Is Health Based :	Y
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	2
Address Line 1 :	1665 Mt. Lebanon Avenue, SUFFOLK, 23436
Address Line 2 :	N/R
Compliance Status :	System Inactive
RTC Date :	04/07/2010
Enforcement Action Description :	State Public Notification received
Admin Name :	SPRATLEY, DOUGLAS
Email Address :	N/R

RTC Enforcement ID :	N/R
Violation ID :	3278809
Submission Year :	2019
Violation First Reported Date :	06/18/2008
Contaminant Name :	Fluoride
Rule Family :	Inorganic Chemicals
Rule Group :	Chemicals
Rule Name :	Inorganic Chemicals
Violation Type :	Maximum Contaminant Level Violation, Average
Is Health Based :	Y
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	2
Address Line 1 :	1665 Mt. Lebanon Avenue, SUFFOLK, 23436
Address Line 2 :	N/R
Compliance Status :	System Inactive
RTC Date :	04/07/2010
Enforcement Action Description :	State Public Notification received
Admin Name :	SPRATLEY, DOUGLAS
Email Address :	N/R

Map Id: 6
Direction: W
Distance: 0.348 mi.
Actual: 1834.976 ft.
Elevation: 0.004 mi. / 22.234 ft.
Relative: Lower

Site Name : VA3800300
1665 MT. LEBANON AVENUE
SUFFOLK, VA 23436

Database(s) : [PWS, PWS ENF] ***(cont.)***

Envirosite ID: 358193614
EPA ID: N/R

PWS ENF ***(cont.)***

RTC Enforcement ID :	N/R
Violation ID :	3278808
Submission Year :	2019
Violation First Reported Date :	02/22/2008
Contaminant Name :	Fluoride
Rule Family :	Inorganic Chemicals
Rule Group :	Chemicals
Rule Name :	Inorganic Chemicals
Violation Type :	Maximum Contaminant Level Violation, Average
Is Health Based :	Y
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	2
Address Line 1 :	1665 Mt. Lebanon Avenue, SUFFOLK, 23436
Address Line 2 :	N/R
Compliance Status :	System Inactive
RTC Date :	04/07/2010
Enforcement Action Description :	State Formal Notice of Violation issued
Admin Name :	SPRATLEY, DOUGLAS
Email Address :	N/R

RTC Enforcement ID :	N/R
Violation ID :	3278507
Submission Year :	2019
Violation First Reported Date :	11/21/2007
Contaminant Name :	Fluoride
Rule Family :	Inorganic Chemicals
Rule Group :	Chemicals
Rule Name :	Inorganic Chemicals
Violation Type :	Maximum Contaminant Level Violation, Average
Is Health Based :	Y
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	2
Address Line 1 :	1665 Mt. Lebanon Avenue, SUFFOLK, 23436
Address Line 2 :	N/R
Compliance Status :	System Inactive
RTC Date :	04/07/2010
Enforcement Action Description :	State Public Notification received
Admin Name :	SPRATLEY, DOUGLAS
Email Address :	N/R

RTC Enforcement ID :	N/R
Violation ID :	3278608
Submission Year :	2019
Violation First Reported Date :	11/21/2007
Contaminant Name :	Fluoride
Rule Family :	Inorganic Chemicals
Rule Group :	Chemicals
Rule Name :	Inorganic Chemicals
Violation Type :	Maximum Contaminant Level Violation, Average
Is Health Based :	Y
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	2

Map Id: 6
Direction: W
Distance: 0.348 mi.
Actual: 1834.976 ft.
Elevation: 0.004 mi. / 22.234 ft.
Relative: Lower

Site Name : VA3800300
1665 MT. LEBANON AVENUE
SUFFOLK, VA 23436

Database(s) : [PWS, PWS ENF] ***(cont.)***

Envirosite ID: 358193614
EPA ID: N/R

PWS ENF ***(cont.)***

Address Line 1 :	1665 Mt. Lebanon Avenue, SUFFOLK, 23436
Address Line 2 :	N/R
Compliance Status :	System Inactive
RTC Date :	04/07/2010
Enforcement Action Description :	State Formal Notice of Violation issued
Admin Name :	SPRATLEY, DOUGLAS
Email Address :	N/R

RTC Enforcement ID :	N/R
Violation ID :	3278708
Submission Year :	2019
Violation First Reported Date :	11/21/2007
Contaminant Name :	Consumer Confidence Rule
Rule Family :	Consumer Confidence Rule
Rule Group :	Other
Rule Name :	Consumer Confidence Rule
Violation Type :	Consumer Confidence Report Complete Failure to Report
Is Health Based :	N
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	1665 Mt. Lebanon Avenue, SUFFOLK, 23436
Address Line 2 :	N/R
Compliance Status :	System Inactive
RTC Date :	04/07/2010
Enforcement Action Description :	State Formal Notice of Violation issued
Admin Name :	SPRATLEY, DOUGLAS
Email Address :	N/R

RTC Enforcement ID :	N/R
Violation ID :	3278307
Submission Year :	2019
Violation First Reported Date :	05/22/2007
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Routine Major (TCR)
Is Health Based :	N
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	1665 Mt. Lebanon Avenue, SUFFOLK, 23436
Address Line 2 :	N/R
Compliance Status :	System Inactive
RTC Date :	04/07/2010
Enforcement Action Description :	State Public Notification requested
Admin Name :	SPRATLEY, DOUGLAS
Email Address :	N/R

Map Id: 7
Direction: E
Distance: 0.451 mi.
Actual: 2379.980 ft.
Elevation: 0.003 mi. / 15.6 ft.
Relative: Lower

Site Name : 365359076291601
36.89987060, -76.48744900
VA

Database(s) : [NWIS]

Envirosite ID: 405474231
EPA ID: N/R

NWIS

Site Identification Number :	365359076291601
Site Type :	Well
Station Name :	59D 2
Agency :	U.S. Geological Survey
District :	Virginia
State :	VA
County :	Suffolk City
Country :	USA
Land Net Location :	N/R
Name of Location Map :	NEWPORT NEWS SOUTH
Scale of Location Map :	24000
Altitude of Gage/Land Surface :	10.00
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	2.5
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	Hampton Roads
Drainage Basin :	N/R
Topographic Setting :	Flat surface
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	19901213
Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Data have been checked by the reporting agency.
Data-other GW Files :	YYNNNNNN
National Aquifer :	N/R
Local Aquifer :	Sand (Unknown Age)
Local Aquifer Type :	Confined single aquifer
Well Depth :	717
Hole Depth :	717
Source of Depth Data :	D
Project Number :	N/R
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0
Water-Quality Data Begin Date :	09/17/1970
Water-Quality Data End Date :	02/22/1971
Water-Quality Data Count :	2
Field Water-Level Data Begin Date :	1964-07-20
Field Water-Level Data End Date :	1964-07-20
Field Water-Level Data Count :	1
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	0
Latitude :	36.89987060
Longitude :	-76.48744900
Last Date in Agency List :	06/21/2019

Map Id: 8
Direction: ENE
Distance: 0.489 mi.
Actual: 2582.312 ft.
Elevation: 0.003 mi. / 16.325 ft.
Relative: Lower

Site Name : ID4430023
2005 HERRON CT.
SUFFOLK, VA 23344

Database(s) : [PWS, PWS ENF]

Envirosite ID: 357989029
EPA ID: N/R

PWS

Facility Address :	2005 Herron Ct., SUFFOLK, VA 23344
PWS ID :	ID4430023
PWS Type :	Transient non-community system
PWS Name :	MOUNTAIN VIEW RV WEST
Activity Status :	Changed from public to non-public
Primary Source :	Ground water
Submission Year :	2019
Submission Year Quarter :	2019Q2
Population Served Count :	0
Service Connections Count :	1
Population Category 2 :	<10,000
Population Category 3 :	<=3300
Population Category 4 :	<10K
Population Category 5 :	<=500
Population Category 11 :	<=100
Submission Quarter :	2
Submission Status Code :	Y
First Reported Date :	03/13/1980
Last Reported Date :	06/04/2019
Deactivation Date :	10/27/2010
GW or SW :	Groundwater
Is Grant Eligible :	N
Is Outstanding Performer :	N/R
Is School or Daycare :	N
Is Source Water Protected :	N
Primacy Agency :	Idaho
Primacy Type :	State
Org Name :	RHOADS, WILLIAM
EPA Region :	Region 10
Admin Name :	RHOADS, WILLIAM
Owner Type :	Private
Phone Number :	757-435-1037
Phone Ext Number :	N/R
Alt Phone Number :	N/R
Email Address :	N/R
Fax Number :	N/R
Is Wholesaler :	N
LT2 Schedule Category :	N/R
NPM Candidate :	N
CDS ID :	N/R
DBPR Schedule Category :	N/R
Outstanding Performer Date :	N/R
Season Begin Date :	05-01
Season End Date :	09-30
Source Water Protection Date :	N/R
Seasonal Startup System :	N/R
Reduced Monitoring Begin Date :	N/R
Reduced Monitoring End Date :	N/R
Reduced RTCR Monitoring :	N/R
Last Date in Agency List :	07/25/2019

PWS ENF

Facility Address :	2005 Herron Ct., SUFFOLK, VA 23344

Map Id: 8
Direction: ENE
Distance: 0.489 mi.
Actual: 2582.312 ft.
Elevation: 0.003 mi. / 16.325 ft.
Relative: Lower

Site Name : ID4430023
2005 HERRON CT.
SUFFOLK, VA 23344

Database(s) : [PWS, PWS ENF] ***(cont.)***

Envirosite ID: 357989029
EPA ID: N/R

PWS ENF ***(cont.)***

PWS ID :	ID4430023
PWS Name :	MOUNTAIN VIEW RV WEST
EPA Region :	Region 10
Primacy Agency :	Idaho
PWS Type :	Transient non-community system
Primacy Type :	State
Primary Source :	Ground water
Activity Status :	Changed from public to non-public
Deactivation Date :	10/27/2010
Owner Type :	Private
Phone Number :	757-435-1037
Last Date in Agency List :	07/25/2019

Violation Details

RTC Enforcement ID :	N/R
Violation ID :	808
Submission Year :	2019
Violation First Reported Date :	08/18/2010
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Routine Major (TCR)
Is Health Based :	N
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	2005 Herron Ct., SUFFOLK, 23344
Address Line 2 :	N/R
Compliance Status :	System Inactive
RTC Date :	10/27/2010
Enforcement Action Description :	N/R
Admin Name :	RHOADS, WILLIAM
Email Address :	N/R

RTC Enforcement ID :	N/R
Violation ID :	807
Submission Year :	2019
Violation First Reported Date :	11/21/2006
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Routine Major (TCR)
Is Health Based :	N
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	2005 Herron Ct., SUFFOLK, 23344
Address Line 2 :	N/R
Compliance Status :	System Inactive
RTC Date :	10/27/2010
Enforcement Action Description :	N/R
Admin Name :	RHOADS, WILLIAM

Map Id: 8
Direction: ENE
Distance: 0.489 mi.
Actual: 2582.312 ft.
Elevation: 0.003 mi. / 16.325 ft.
Relative: Lower

Site Name : ID4430023
2005 HERRON CT.
SUFFOLK, VA 23344

Database(s) : [PWS, PWS ENF] ***(cont.)***

Envirosite ID: 357989029
EPA ID: N/R

PWS ENF ***(cont.)***

Email Address :	N/R

RTC Enforcement ID :	N/R
Violation ID :	706
Submission Year :	2019
Violation First Reported Date :	12/27/2005
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Routine Major (TCR)
Is Health Based :	N
Is Major Violation :	N/R
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	2005 Herron Ct., SUFFOLK, 23344
Address Line 2 :	N/R
Compliance Status :	System Inactive
RTC Date :	10/27/2010
Enforcement Action Description :	N/R
Admin Name :	RHOADS, WILLIAM
Email Address :	N/R

RTC Enforcement ID :	N/R
Violation ID :	294
Submission Year :	2019
Violation First Reported Date :	12/05/1998
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Routine Major (TCR)
Is Health Based :	N
Is Major Violation :	Y
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	2005 Herron Ct., SUFFOLK, 23344
Address Line 2 :	N/R
Compliance Status :	System Inactive
RTC Date :	10/27/2010
Enforcement Action Description :	N/R
Admin Name :	RHOADS, WILLIAM
Email Address :	N/R

RTC Enforcement ID :	N/R
Violation ID :	393
Submission Year :	2019
Violation First Reported Date :	12/05/1998
Contaminant Name :	Coliform (TCR)
Rule Family :	Total Coliform Rules
Rule Group :	Microbials
Rule Name :	Total Coliform Rule
Violation Type :	Monitoring, Routine Major (TCR)
Is Health Based :	N

Map Id: 8
Direction: ENE
Distance: 0.489 mi.
Actual: 2582.312 ft.
Elevation: 0.003 mi. / 16.325 ft.
Relative: Lower

Site Name : ID4430023
2005 HERRON CT.
SUFFOLK, VA 23344

Database(s) : [PWS, PWS ENF] ***(cont.)***

Envirosite ID: 357989029
EPA ID: N/R

PWS ENF ***(cont.)***

Is Major Violation :	Y
Severity Indicator Count :	N/R
Public Notification Tier :	3
Address Line 1 :	2005 Herron Ct., SUFFOLK, 23344
Address Line 2 :	N/R
Compliance Status :	System Inactive
RTC Date :	10/27/2010
Enforcement Action Description :	N/R
Admin Name :	RHOADS, WILLIAM
Email Address :	N/R

Map Id: 9
Direction: WSW
Distance: 0.801 mi.
Actual: 4226.854 ft.
Elevation: 0.004 mi. / 23.635 ft.
Relative: Higher

Site Name : VA3800290
8316 CRITTENDEN ROAD
SUFFOLK, VA 23436

Database(s) : [PWS]

Envirosite ID: 411180161
EPA ID: N/R

PWS

Facility Address :	8316 Crittenden Road, -, SUFFOLK, VA 23436

PWS ID :	VA3800290
PWS Type :	Community water system
PWS Name :	HOBSON ARTESIAN
Activity Status :	Active
Primary Source :	Ground water
Submission Year :	2017
Submission Year Quarter :	2017Q2
Population Served Count :	70
Service Connections Count :	25
Population Category 2 :	<10,000
Population Category 3 :	<=3300
Population Category 4 :	<10K
Population Category 5 :	<=500
Population Category 11 :	<=100
Submission Quarter :	2
Submission Status Code :	Y
First Reported Date :	02/10/1979
Last Reported Date :	05/22/2017
Deactivation Date :	N/R
GW or SW :	Groundwater
Is Grant Eligible :	Y
Is Outstanding Performer :	N/R
Is School or Daycare :	N
Is Source Water Protected :	N
Primacy Agency :	Virginia
Primacy Type :	State
Org Name :	HILL, MARY
EPA Region :	Region 3
Admin Name :	HILL, MARY

Map Id: 9
Direction: WSW
Distance: 0.801 mi.
Actual: 4226.854 ft.
Elevation: 0.004 mi. / 23.635 ft.
Relative: Higher

Site Name : VA3800290
8316 CRITTENDEN ROAD
SUFFOLK, VA 23436

Database(s) : [PWS] ***(cont.)***

Envirosite ID: 411180161
EPA ID: N/R

PWS ***(cont.)***

Owner Type :	Private
Phone Number :	757-685-1730
Phone Ext Number :	N/R
Alt Phone Number :	N/R
Email Address :	hlovethyneighbor@aol.com
Fax Number :	-
Is Wholesaler :	N
LT2 Schedule Category :	N/R
NPM Candidate :	Y
CDS ID :	-
DBPR Schedule Category :	N/R
Outstanding Performer Date :	N/R
Season Begin Date :	N/R
Season End Date :	N/R
Source Water Protection Date :	N/R
Seasonal Startup System :	N/R
Reduced Monitoring Begin Date :	N/R
Reduced Monitoring End Date :	N/R
Reduced RTCR Monitoring :	N/R
Last Date in Agency List :	08/24/2017

Map Id: 10
Direction: NNE
Distance: 0.954 mi.
Actual: 5035.167 ft.
Elevation: 0.003 mi. / 15.384 ft.
Relative: Lower

Site Name : 365455076292101
36.91542610, -76.48883810
VA

Database(s) : [NWIS]

Envirosite ID: 425764842
EPA ID: N/R

NWIS

Site Identification Number :	365455076292101
Site Type :	Well
Station Name :	59D 28
Agency :	U.S. Geological Survey
District :	Virginia
State :	VA
County :	Suffolk City
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	5
Method Altitude Determined :	Interpolated from topographic map.
Altitude Accuracy :	1
Altitude Datum :	National Geodetic Vertical Datum of 1929
Hydrologic Unit :	N/R
Drainage Basin :	N/R
Topographic Setting :	N/R
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R

Map Id: 10
Direction: NNE
Distance: 0.954 mi.
Actual: 5035.167 ft.
Elevation: 0.003 mi. / 15.384 ft.
Relative: Lower

Site Name : 365455076292101
36.91542610, -76.48883810
VA

Database(s) : [NWIS] ***(cont.)***

Envirosite ID: 425764842
EPA ID: N/R

NWIS ***(cont.)***

Drainage Area :	N/R
Contributing Drainage Area :	N/R
Data Reliability :	Unchecked data.
Data-other GW Files :	YY
National Aquifer :	N/R
Local Aquifer :	Patapsco Formation
Local Aquifer Type :	Confined single aquifer
Well Depth :	N/R
Hole Depth :	576
Source of Depth Data :	N/R
Project Number :	N/R
Real-Time Data Flag :	N/R
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	N/R
Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	N/R
Field Water-Level Data Begin Date :	N/R
Field Water-Level Data End Date :	N/R
Field Water-Level Data Count :	N/R
Site-Visit Data Begin Date :	N/R
Site-Visit Data End Date :	N/R
Site-Visit Data Count :	N/R
Latitude :	36.91542610
Longitude :	-76.48883810
Last Date in Agency List :	06/21/2019

Map Id: 11
Direction: NE
Distance: 0.971 mi.
Actual: 5127.847 ft.
Elevation: 0.004 mi. / 19.416 ft.
Relative: Lower

Site Name : VA3800628
1762 BLEAKHORN RD
SUFFOLK, VA 23433

Database(s) : [PWS]

Envirosite ID: 358230661
EPA ID: N/R

PWS

Facility Address :	1762 BLEAKHORN RD, SUFFOLK, VA 23433
PWS ID :	VA3800628
PWS Type :	Transient non-community system
PWS Name :	C AND E MARKET -E.H.NEWMAN JR.
Activity Status :	Inactive
Primary Source :	Ground water
Submission Year :	2019
Submission Year Quarter :	2019Q2
Population Served Count :	50
Service Connections Count :	1
Population Category 2 :	<10,000
Population Category 3 :	<=3300
Population Category 4 :	<10K

Map Id: 11
Direction: NE
Distance: 0.971 mi.
Actual: 5127.847 ft.
Elevation: 0.004 mi. / 19.416 ft.
Relative: Lower

Site Name : VA3800628
1762 BLEAKHORN RD
SUFFOLK, VA 23433

Database(s) : [PWS] ***(cont.)***

Envirosite ID: 358230661
EPA ID: N/R

PWS ***(cont.)***

Population Category 5 :	<=500
Population Category 11 :	<=100
Submission Quarter :	2
Submission Status Code :	Y
First Reported Date :	01/21/1982
Last Reported Date :	11/14/2000
Deactivation Date :	01/01/1997
GW or SW :	Groundwater
Is Grant Eligible :	N
Is Outstanding Performer :	N/R
Is School or Daycare :	N
Is Source Water Protected :	N/R
Primacy Agency :	Virginia
Primacy Type :	State
Org Name :	N/R
EPA Region :	Region 3
Admin Name :	C AND E MARKET -E.H.NEWMAN JR.
Owner Type :	Private
Phone Number :	804-238-2817
Phone Ext Number :	N/R
Alt Phone Number :	N/R
Email Address :	N/R
Fax Number :	N/R
Is Wholesaler :	N
LT2 Schedule Category :	N/R
NPM Candidate :	N
CDS ID :	N/R
DBPR Schedule Category :	N/R
Outstanding Performer Date :	N/R
Season Begin Date :	01-01
Season End Date :	12-31
Source Water Protection Date :	N/R
Seasonal Startup System :	N/R
Reduced Monitoring Begin Date :	N/R
Reduced Monitoring End Date :	N/R
Reduced RTCR Monitoring :	N/R
Last Date in Agency List :	07/25/2019

RADON DATA:

STATE SOURCE: No Available Data

FEDERAL AREA RADON INFORMATION FOR: No Available Data

NUMBER OF SAMPLE SITES: No Available Data

HIST PWS ENF
Historical Public Water Supply locations with Enforcement Violations
Environmental Protection Agency
(800) 426-4791
List of Safe Drinking Water Information Systems (SDWIS) with enforcement violations that are no longer in current agency list.

NWIS
National Water Information Systems
United States Geological Society
(703) 648-5953
Information on all water resources for the United States. This database contains all current and historical data for the nation.

PWS
Public Water Supply
Environmental Protection Agency
(800) 426-4791
Safe drinking water information Systems

PWS ENF
Public Water Supply locations with Enforcement Violations
Environmental Protection Agency
(800) 426-4791
Safe drinking water information Systems with enforcememnt violations

FLOOD Q3
Flood data
Environmental Protection Agency
(202) 566-1667
Q3 Flood Data

HYDROLOGIC UNIT
Hydrologic Unit Maps
USGS
The United States Geological Survey created a hierarchical system of hydrologic units originally called regions, sub-regions, accounting units, and cataloging units. Each unit was assigned a unique Hydrologic Unit Code (HUC). As first implemented the system had 21 regions, 221 subregions, 378 accounting units, and 2,264 cataloging units. Over time the system was changed and expanded. As of 2010 there are six levels in the hierarchy, represented by hydrologic unit codes from 2 to 12 digits long, called regions, subregions, basins, subbasins, watersheds, and subwatersheds. The table below describes the system's hydrologic unit levels and their characteristics, along with example names and codes.

WETLANDS NWI
National Wetland Inventory
U.S. Fish and Wildlife Service
(703) 358-2171
Wetland Inventory for the United States

SSURGO
Detailed Soil Data Map
Natural Resources Conservation Service: U.S. Department of Agriculture
(202) 690-4985
Detailed Soil Data Map

STATSGO & MUI
General Soil Data Map
Natural Resources Conservation Service: U.S. Department of Agriculture
(202) 690-4985
General Soil Data Map

USGS GEOLOGIC AGE
USGS Digital Data Series DDS
Natural Resources Conservation Service: U.S. Department of Agriculture
(202) 690-4985
USGS Digital Data Series DDS: Geologic Age and Rock Stratigraphic Unit

RADON
National Radon Database
USGS
703-605-6008
A study of the EPA/State Residential Radon Survey and the National Residential Radon Survey.

OIL & GAS WELLS - VA
Oil and Gas Wells
Virginia Department of Mines, Minerals and Energy
Oil and gas wells location

AIRPORT FACILITIES
Airport landing facilities
Federal Aviation Administration
(866) 835-5322
Airport landing facilities

BASINS
Better Assessment Science Integrating point & Non-point Sources
U.S. Environmental Protection Agency
855-246-3642
Integrated geographical information system national watershed data and environmental assessment known as Better Assessment Science Integrating point & Non-point Sources

DIGITAL OBSTACLE
Obstacles of interest to aviation users
Federal Aviation Administration
855-379-6518
The Digital Obstacle File describes all known obstacles of interest to aviation users in the U.S. with limited coverage of the Pacific the Caribbean Canada and Mexico. The obstacles are assigned unique numerical identifiers; accuracy codes and listed in order of ascending latitude within each state or area by FAA Region.

EPICENTERS
National Geographical Data Center
National Geographical Data Center
303-497-6826
Data on over four million earthquakes dating from 2100 B.C. to 1995 A.D.

FLOOD DFIRM
National Flood Hazard Layer Database
Federal Emergency Management Agency
The National Flood Hazard Layer Database (NFHL) is a computer database that contains the flood hazard map information from FEMAs Flood Map Modernization program. These map data are from Digital Flood Insurance Rate Map (DFIRM) databases and Letters of Map Revision.