

WOTUS & Wetland Delineation 2015 West Pembroke Avenue Hampton, Virginia WSSI #32576.01



Project Area (±10.7 ac)

Wetland Data Points

Aquatic Resources

Wetlands (±3.6 ac)

Ditch (±574 lf)

Notes: In-field wetland delineation performed on February 15, 2023 by J. Armentrout, PWS, PWD, and C. Hemphill.

All flagging has been located by Mapping-Grade GPS.

This does not constitute a survey

Figure Date: February 20, 2023



February 20, 2023

Regulator of the Day U.S. Army Corps of Engineers 803 Front Street Norfolk, Virginia 23508

Transmitted Electronically

Re: Preliminary Jurisdictional Determination Request

2015 W. Pembroke Ave (± 10.7 acres)

Hampton, Virginia 23661 WSSI Project # 32576.01

Dear Regulator of the Day:

Wetland Studies and Solutions, Inc. (WSSI) has completed a Waters of the U.S. (WOTUS) determination on behalf of James River Petroleum, Inc. for the property located at 2015 W. Pembroke Avenue (PIN 1004014) in Hampton, Virginia (Exhibits 1 & 2). WSSI is requesting confirmation of the enclosed wetland and Waters delineation by the USACE as well as a Preliminary Jurisdictional Determination (PJD) for this project.

The project area is \pm 10.7 acres, herein referred to as the "Site". The Site is located in HUC 02080208 (Hampton Roads).

The Norfolk District's Pre-Application and Jurisdictional Waters Determination Request Form, Pre-Application Jurisdictional Determination Checklist, and Wetland Delineation Site Report Summary are attached to this letter for review. The following exhibits were reviewed prior to conducting field work at the site and are included as enclosures: USGS topographic quadrangle (Exhibit 1), current aerial imagery (Exhibit 2), LIDAR digital elevation model (Exhibit 3), National Wetlands Inventory (NWI) online mapper (Exhibit 4), Natural Resource Conservation Service (NRCS) Web Soil Survey (Exhibit 5), and the Federal Emergency Management Agency (FEMA) National Flood Hazards layer (Exhibit 6).

On February 15, 2023, WSSI performed a wetland/WOTUS delineation of the site. Data points were collected pursuant to procedures contained in the Army Corps of Engineers Wetland Delineation Manual (1987) and subsequent guidance including the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region (2010).

Additionally, the USACE's Antecedent Precipitation Tool (APT) was analyzed to determine whether "Normal Conditions" were present at the time of field data collection. The APT was run on February 17, 2023, for February 15, 2023, the date which on-site delineation was performed. For February 15, 2023, the APT identified "Wetter than Normal" conditions for the site with "Mild Drought" noted by the Drought Index.

1008 Old Virginia Beach Road • Suite 200 • Virginia Beach, Virginia 23451 • 757-963-2008 chemphill@wetlands.com • www.wetlands.com

Regulator of the Day – USACE PJD Request, 2015 W. Pembroke Ave (±11.7 acres) February 20, 2023 WSSI # 32576.01 Page 2 of 2

The delineation effort identified the following aquatic resources wetlands and WOTUS on the site (Exhibit 7).

- 3.6 acres of wetlands
- 574 linear feet (0.1 acres) of ditch

At this time, WSSI is requesting confirmation of the enclosed wetland and WOTUS delineation as well as a Preliminary Jurisdictional Determination (PJD) for this project.

Please contact me at 757.963.2008 if needed to discuss the project further and to schedule a site visit, if needed.

Sincerely,

Wetland Studies and Solutions, Inc. - Hampton Roads Division

Caitlin Hemphill

Environmental Technician

Jamie Armentrout, PWS, PWD Associate Environmental Scientist

Enclosures



NORFOLK DISTRICT REGULATORY OFFICE PRE-APPLICATION AND/OR JURISDICTIONAL WATERS DETERMINATION REQUEST FORM

This form is used when you want to determine if areas on your property fall under regulatory requirements of the U.S. Army Corps of Engineers (USACE). Please supply the following information and supporting documents described below. This form can be filled out online and/or printed and then mailed, faxed, or e-mailed to the Norfolk District. Submitting this request authorizes the US Army Corps of Engineers to field inspect the property site, if necessary, to help in the determination process. THIS FORM MUST BE SIGNED BY THE PROPERTY OWNER TO BE CONSIDERED A FORMAL REQUEST.

The printed form and supporting documents should be mailed to:

U.S. Army Corps of Engineers, Norfolk District Regulatory Branch 803 Front Street Norfolk, Virginia 23510-1096

Or faxed to (757) 201-7678, or e-mailed to: CENAO.REG_ROD@usace.army.mil

Additional information on the Regulatory Program is available on our website at: http://www.nao.usace.army.mil/

Please contact us at 757-201-7652 if you need any assistance with filling out this form.

Location and Information about Property to be subject to a Jurisdictional Determination:

1. Date of Request: 02/20/2023

2. Project Name: 2015 W. Pembroke Ave

3. City or County where property located: Hampton

- 4. Address of property and directions (attach a map of the property location and a copy of the property plat): 2015 W. Pembroke Ave
- 5. Coordinates of property (if known): 37.007070, -76.391900

6. Size of property in acres: +/- 10.7

7. Tax Parcel Number / GPIN (if available): 1004014

8. Name of Nearest Waterway: James River

9. Brief Description of Proposed Activity, Reason for Preapplication Request, and/or Reason for Jurisdictional Waters Determination Request:
Wetland Delineation Confirmation/PJD Request
10. Has a wetland delineation/determination been completed by a consultant or the Corps on the property previously? YES NO UNKNOWN ✓
If yes, please provide the name of the consultant and/or Corps staff and Corps permit number, is available:
Contact Information:
Property Owner Name: James River Petroleum, Inc. Contact Name: Amy Hill Mailing Address: 10487 Lakeridge Pkwv #8115 City: State: Zip: Ashland VA 23005 Daytime Telephone: 804.358.9000 ext. 1043 E-mail Address: ahill@jrpenergy.com
Requestor Name: James River Petroleum, Inc. Mailing Address: 10487 Lakeridge Pkwy #8115 City: State: Zip: Ashland VA 23005 Daytime Telephone: 804.358.9000 E-mail Address: ahill@jrpenergy.com
Consultant Name: Wetland Studies and Solutions, Inc. c/o Caitlin Hemphill Mailing Address: 1008 Old Virginia Beach Road, Suite 200 City: State: Zip: Virginia Beach, Virginia 23451 Daytime Telephone: 757-963-2008 (o) 571-991-5777 (c) E-mail Address: chemphill@wetlands.com
Additionally, if you have any of the following information, please include it with your request: wetland delineation map, other relevant maps, drain tile survey, topographic survey, and/or site photographs.
CERTIFICATION: I am hereby requesting a preapplication consultation or jurisdictional waters and/or wetlands determination from the U.S. Army Corps of Engineers, for the property(ies) I have described herein. I agree to allow the du authorized representatives of the Norfolk District Corps of Engineers and other regulatory or advisory agencies to enter upon the premises of the project site at reasonable times to evaluate inspect and photograph site conditions. This consent to enter the property is superior to, takes precedence over, and waives any communication to the contrary. For example, if the property is posted as "no trespassing" this consent specifically supersedes and waives that prohibition and grants permission to enter the property despite such posting. I hereby certify that the information contained in the Request for a Jurisdictional Determination is accurate and complete:
02/20/2023
Property Owner's Signature Date

Wetland Delineation Report Site Information Summary

2015 W. Pembroke Ave	
±10.7 acres	
PIN 1004014	
Hampton, Virginia	

Date: 02/20/2023

Applicant/Property Owner

Name:

James River Petroleum, Inc.

Address: 10487 Lakeridge Pkwy #8115

Amy Hill

Email:

ahill@jrpenergy.com

Consulting Agent

Wetland Studies and Solutions, Inc. c/o: Caitlin Hemphill

1008 Old Virginia Beach Road, Suite 200

Virginia Beach, VA 23451

Phone: (757) 963-2008 / Email: chemphill@wetlands.com

Latitude/ Longitude in Decimal Degrees using coordinate plane (NAD 1983)

37.007070, -76.391900

Has a previous delineation or JD been performed? If so please provide USACE Project Number:

Unknown

Hydrologic Unit Code (HUC)

8-Digit HUC - 02080208

10-Digit HUC - 0208020803

12-Digit HUC - 020802080303

USGS Topographic Sheet: Newport News, VA

Nearest Waterbody:

James River

Delineation Methods

U.S. Army Corps of Engineers 1987 Wetland Delineation Manual in conjunction with Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region (2010) NWPL (2020)

On-Site Investigation Date

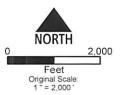
Wetland boundary delineation and site data collection conducted on February 15, 2023

Wetland Delineation Plan
The proposed wetland boundaries and Data Sampling Point locations are depicted on the plan entitled "wotus and Wetland Delineation" prepared by Wetland Studies and Solutions, Inc. on February 20, 2023
Wetland Investigation Results (Examples given, this is a summary of totals, please also provide a table with each individual water, Cowardin classification, and area shown. See table at end of questionnaire.)
Wetlands:
3.6 acres
Stream Channels: N/A
Other Waters: 574 linear feet (0.1 acre) of ditch
Water bodies onsite identified as Section 10: N/A
Uplands: Approximately 7.1 acres of uplands
100-Year Floodplains As depicted on the Federal Emergency Management Agency's (FEMA) on-line Flood Insurance Rate Map # 5155270024H , effective date 05/16/2016 the property lies within Unshaded Zone X.
National Wetlands Inventory
The on-line National Wetland Inventory (attached) identifies PFO1E, PFO1B wetlands within the subject property.
USDA Soil Survey
The on-line USDA Natural Resource Conservation Service Soil Survey (attached) identifies Tomotley-Urban land complex, Udorthents-Dumps complex, Urban land
Notes:



Project Area

USGS 7.5' Quadrangle 2015 West Pembroke Avenue WSSI #32576.01



Newport News North, VA 1986 Latitude: 37°0'24"N

Longitude: 76°23'31"W

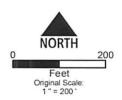
Hydrologic Unit Code (HUC): 020802080303 HUC12 Name: Hampton River-Hampton Roads COE Region: Atlantic and Gulf Coastal Plain

Wetland Studies and Solutions, Inc. a DAVEY €. company

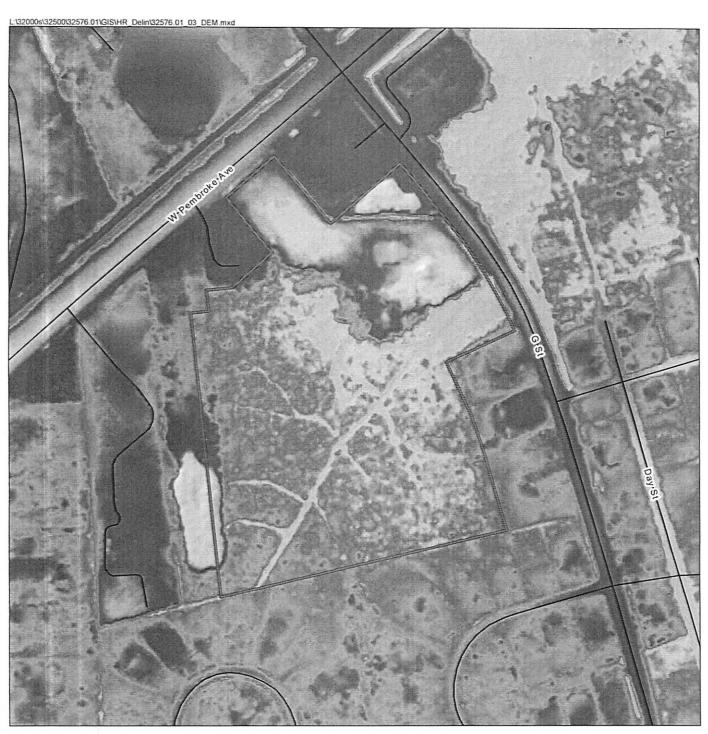


Project Area

October 2022 Natural Color Imagery 2015 West Pembroke Avenue WSSI #32576.01

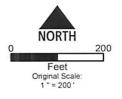


Source: Nearmap®

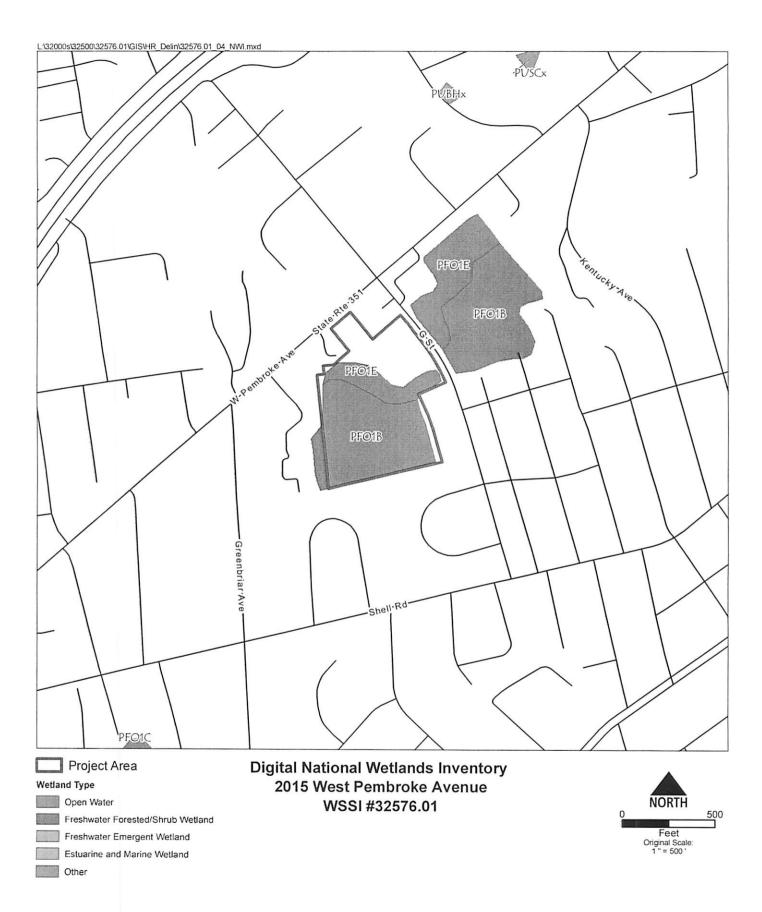


Project Area

Digital Elevation Model (DEM) 2015 West Pembroke Avenue WSSI #32576.01



Source: USGS 3DEP Elevation Program



Source: U.S. Fish and Wildlife Service; December 2021



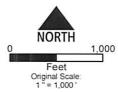
Major Land Resource Area: Tidewater Area, 153B Land Resource Region: Atlantic and Gulf Coast Lowland Forest and Crop Region, T Source: City of Hampton Digital Data, U.S. Department of Agriculture, 2021

Soil Survey Data

SERIES NUMBER	HYDRIC RATING	Soil Series Name
24	73	Tomotley-Urban land complex, 0 to 2 percent slopes
26	8	Udorthents-Dumps complex
27	2	Urban land



FEMA Digital Flood Insurance Rate 2015 West Pembroke Avenue WSSI #32576.01



Panel: 5155270024H, Effective: 05/16/2016



WOTUS & Wetland Delineation 2015 West Pembroke Avenue Hampton, Virginia WSSI #32576.01



Project Area (±10.7 ac)

Wetland Data Points

Aquatic Resources

Wetlands (±3.6 ac)

Ditch (±574 lf)

Notes: In-field wetland delineation performed on February 15, 2023 by J. Armentrout, PWS. PWD, and C. Hemphill.

All flagging has been located by Mapping-Grade GPS.

This does not constitute a survey

Figure Date: February 20, 2023

Wetland Studies and Solutions, Inc. a DAVEY € company

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: 2015 W. Pembroke Ave (32576.01) City/C	ounty: Hampton	Sampling Date: 2023-02-15		
Applicant/Owner: James River Petroleum, Inc.		e: Virginia Sampling Point: DP-1		
Investigator(s): C. Hemphill, WSSI Section				
		e): None Slope (%): 0		
Subregion (LRR or MLRA): T Lat: 37.007533		391784 Slope (%). Datum: NAD 83		
Are climatic / hydrologic conditions on the site typical for this time of year? You	/	NWI dassification: None		
		•		
Are Vegetation, Soil, or Hydrology significantly disturt		cumstances" present? Yes No		
Are Vegetation, Soil, or Hydrology naturally problema	ic? (If needed, expl	ain any answers in Remarks.)		
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations	, transects, important features, etc.		
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Remarks:	Is the Sampled Area within a Wetland?	Yes No		
Data point collected on northern portion of site conditions present.	in maintained fie	ld. Wetter than normal		
HYDROLOGY				
Wetland Hydrology Indicators:	<u>Se</u>	condary Indicators (minimum of two required)		
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil Cracks (B6)		
Surface Water (A1) Aquatic Fauna (B13) High Water Table (A2) Marl Deposits (B15) (LRR		Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)		
Saturation (A3) Hydrogen Suffide Odor (C	•	Moss Trim Lines (B16)		
Water Marks (B1) Oxidized Rhizospheres al	· —	Dry-Season Water Table (C2)		
Sediment Deposits (B2) Presence of Reduced Iron		Crayfish Burrows (C8)		
Drift Deposits (B3) Recent Iron Reduction in	Filled Soils (C6)	Saturation Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4) Thin Muck Surface (C7)	_	Geomorphic Position (D2)		
Iron Deposits (B5) Other (Explain in Remarks	s)	Shallow Aquitard (D3)		
Inundation Vis ble on Aerial Imagery (B7)		FAC-Neutral Test (D5)		
Water-Stained Leaves (B9)		Sphagnum moss (D8) (LRR T, U)		
Field Observations:				
Surface Water Present? Yes No Depth (inches):				
Water Table Present? Yes No Depth (inches):				
Saturation Present? Yes No Depth (inches): (includes capillary fringe)	Wetland Hyd	rology Present? Yes No		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	ious inspections), if availab	le:		
Remarks:				
No water table or soil saturation present to -24	inches. No other	primary or secondary		
indicators present. FAC-Neutral test not met.				
•				

7 0 4 (2) 4 30 ft		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft) Carya cordiformis	<u>% Cover</u> 2	Species? ✓	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
2	- — —			Total Number of Dominant
3				Species Across All Strata: 4 (B)
l				,
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/
5				That Ale OBE, I AOVI, OIT AC.
	20/	Total Cov	/er	Prevalence Index worksheet:
50% of total cover: 1				Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 30 ft)		10121 00101	•	OBL species 0 x 1 = 0
				FACW species 5 x 2 = 10
2.				FAC species 98 x 3 = 294
				FACU species 8 x4 = 32
J				UPL species 3 x 5 = 15
				Column Totals: 114 (A) 351 (E
j				(5)
5				Prevalence Index = B/A = 3.08
		= Total Cov		Hydrophytic Vegetation Indicators:
50% of total cover:	20% of	total cover	:	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30 ft)				✓ 2 - Dominance Test is >50%
Acer rubrum	2	✓	FAC	3 - Prevalence Index is ≤3.0¹
Ligustrum sinense	2		FAC	Problematic Hydrophytic Vegetation¹ (Explain)
3				1 Toole made 11 yet op 11 yet o Vegetation (Explain)
4				Indicators of hydric call and wattend hydralagu wat
5				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Definitions of Five Vegetation Strata:
5	4%	Total Cov		benimions of the vegetation state.
50% of total cover: 2				Tree - Woody plants, excluding woody vines,
Herb Stratum (Plot size: 30 ft)	20% 01	total cover		approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Stenotaphrum secundatum	90	1	FAC	
Chaerophyllum procumbens	5	<u> </u>	FACW	Sapling – Woody plants, excluding woody vines,
	3			approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Cardamine hirsuta	. <u> </u>		FACU	
Vicia sativa	3		FACU	Shrub – Woody plants, excluding woody vines,
5. Veronica persica	3		UPL	approximately 3 to 20 ft (1 to 6 m) in height.
Stellaria media	2		FACU	Herb - All herbaceous (non-woody) plants, including
Rubus pensilvanicus	2		FAC	herbaceous vines, regardless of size, and woody
3				plants, except woody vines, less than approximately 3 ft (1 m) in height.
9				
0				Woody vine - All woody vines, regardless of height.
11.				
	108%	Total Cov		
50% of total cover: 54				
	20% of	total cover	:	
Noody Vine Stratum (Plot size: 30 ft)				
2				
3				
ł				
5				Hydrophytic
		= Total Cov	er/	Vegetation
50% of total cover:	000/ -6	4-4-1		Present? Yes No

Sampling Point: DP-1

SOIL

Profile Desc	ription: (Describe	to the dep	th needed to docum	nent the	indicator	or confirm	n the absence	of indicate	ors.)	
Depth	<u>Matrix</u>			x Feature		. ,				
(inches) 0 - 4	Color (moist)	100	Color (moist)		Type'	<u>Loc²</u>	Texture		Remarks	
	10YR 3/2						Sandy Loam			
4-22	10YR 5/4	98	7.5YR 6/8	2			Sandy Clay Loam		ing from fill	
22 - 24	10YR 5/2	98	7.5YR 6/8	2			Sandy Clay Loam	Soil mix	ing from fill	
				·						
•										
•										
				·						
¹Typo: C=Co	ncontration D=Dor	lotion PM	=Reduced Matrix, MS			<u></u>	21 00041000	DI =Dama I		
			LRRs, unless other			ins.			ining, M=Matri matic Hydric	
Histosol			Polyvalue Be		•	RR S. T. L		luck (A9) (1	_	
	ipedon (A2)		Thin Dark Su				. —	fuck (A10)	•	
Black His	stic (A3)		Loamy Muck							/ILRA 150A,B)
	n Sulfide (A4)		Loamy Gleye		(F2)				ain Soils (F19)	
_	Layers (A5)	T 10	Depleted Mat		-6)				Loamy Soils (F20)
	Bodies (A6) (LRR P cky Mineral (A7) (Ll		Redox Dark : Depleted Dark :	•			•	RA 153B) arent Mater	ial (TF2)	
	esence (A8) (LRR L		Redox Depre		. ,				k Surface (TF1	2)
	ck (A9) (LRR P, T)	•	Marl (F10) (L		-,			(Explain in I	-	
	Below Dark Surfac	æ (A11)	Depleted Oct		-	•	_			
	rk Surface (A12)		Iron-Mangan						drophytic veget	
	airie Redox (A16) (I ucky Mineral (S1) (I		A) Umbric Surfa Delta Ochric		•	, U)			ogy must be predena	
•	leyed Matrix (S4)	Liut 0, 0,	Reduced Ver			0A. 150B)		ะรร บเรเนเ <i>ม</i> ช	o oi pioneilia	uc.
	edox (S5)		Piedmont Flo		•					
Stripped	Matrix (S6)		Anomalous B	right Loa	my Soils (F	20) (MLR	A 149A, 153C	, 153D)		
	face (S7) (LRR P, S									
_	ayer (if observed)	•								
Type:										
	hes):				_		Hydric Soil	Present?	Yes	No
Remarks:										
										1
										1
										1
										İ
										1
										l
										1
										ļ
										ĺ
										1
										l



Photograph 1: View of surrounding vegetation facing northwest at Data Point 1.



Photograph 2: View of non-hydric soil profile at Data Point 1.

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: 2015 W. Pembi	oke Ave (3257	6.01) City	/County: Ham	npton	Sampling Date: 2023-02-15
Applicant/Owner: James Rive					Sampling Point: DP-2
Investigator(s): C. Hemphill,	-		tion Township	, Range:	Oumpany Cara
Landform (hillslope, terrace, etc				ve, convex, none): Concav	e Sione (%): 0
					Slope (%): Datum: NAD 83
Call Man Link Name: 24 - Ton	notlev-lirhan la	nd complex 0 to 2 per	cent clones	Long:	Datum: 1470 00
Soil Map Unit Name: 24 - Ton					
Are climatic / hydrologic condition					
Are Vegetation, Soil					present? Yes No
Are Vegetation, Soil	, or Hydrology	naturally proble	matic?	(If needed, explain any answ	ers in Remarks.)
SUMMARY OF FINDING	S – Attach si	te map showing sa	mpling poi	nt locations, transects	s, important features, etc.
Hydrophytic Vegetation Prese	nt? Yes _	✓ No	Is the Sam	mlad Azaa	
Hydric Soil Present?		✓ No	within a W	•	, No
Wetland Hydrology Present?	Yes _	✓ No	Willia	enandi i es	NO
Remarks:	1:- f			***********	
Data point collecte		ed flat with wetia	and drain	age patterns. wet	ter than normal
conditions present	•				
HYDROLOGY					
Wetland Hydrology Indicato	re.			Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum		check all that apply)		· · · · · · · · · · · · · · · · · · ·	Cracks (B6)
✓ Surface Water (A1)	· -	_ Aquatic Fauna (B13)			getated Concave Surface (B8)
✓ High Water Table (A2)		_ Aquatic Fauna (B13) _ Marl Deposits (B15) (L	DD 111	Sparsely ve	
Saturation (A3)		_ Warr Deposits (B15) (E _ Hydrogen Sulfide Odor		Moss Trim L	
✓ Water Marks (B1)		_ Oxidized Rhizospheres			
Sediment Deposits (B2)		_ Oxioized Ritizospheres _ Presence of Reduced I		Crayfish Bu	Water Table (C2)
Drift Deposits (B3)	_	Recent Iron Reduction			risible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Thin Muck Surface (C7	,	Geomorphic	
tron Deposits (B5)		Other (Explain in Rema	•	Shallow Aqu	
Inundation Vis ble on Aeri	al Imagery (B7)	_ Outor (Explain in Fam.	ii Noj	✓ FAC-Neutra	• •
✓ Water-Stained Leaves (B					moss (D8) (LRR T, U)
Field Observations:	<u>-, </u>			Opinigi	11033 (DO) (EINIC I, O)
Surface Water Present?	Yes✓ No _	Depth (inches): 2			
Water Table Present?		Depth (inches): 2			
Saturation Present?		Depth (inches): 2		Wetland Hydrology Prese	nt? Yes No
(includes capillary fringe) Describe Recorded Data (stre	am naune monito	ring well serial photos n	revious inspec	tions) if available:	
Describe Necolucu Data (sue	am yauye, monito	nng well, aerial priolos, p	revious irisped	lions), ii avaliable.	!
Remarks:					
Inchains.					
1					

VEGETATION (Five Strata) – Use scientific names of plants

/EGETATION (Five Strata) – Use scientific nan	nes of pla	ants.		Sampling Point: DP-2
Tree Stratum (Plot size: 30 ft)		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 II) 1. Acer rubrum	<u>% Cover</u>	Species?	FAC	Number of Dominant Species
2. Liquidambar styraciflua	25		FAC	That Are OBL, FACW, or FAC: 8 (A)
3. Betula nigra	20		FACW	Total Number of Dominant
		<u> </u>	FACVV	Species Across All Strata: 9 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 88.9 (A/B)
6	050/			Prevalence Index worksheet:
		= Total Cov		
50% of total cover: <u>42.5</u>	20% of	total cover:	<u>17</u>	
Sapling Stratum (Plot size: 30 ft)				OBL species $\frac{0}{25}$ $x = \frac{0}{50}$ FACW species $\frac{25}{x^2}$ $x = \frac{50}{x^2}$
1				1 444 444
2				FAC species 120 x 3 = 360 FACU species 12 x 4 = 48
3				
4				70- E apecides
5				Column Totals: <u>157</u> (A) <u>458</u> (B)
6				Prevalence Index = B/A = 2.92
		= Total Cov	ег	Hydrophytic Vegetation Indicators:
50% of total cover:	20% of	total cover:		1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30 ft)	_ _			✓ 2 - Dominance Test is >50%
1 Vaccinium corymbosum	5	✓	FACW	✓ 3 - Prevalence Index is ≤3.0¹
2 Ligustrum sinense	5		FAC	1
3				Problematic Hydrophytic Vegetation ¹ (Explain)
4				1
				'Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5				Definitions of Five Vegetation Strata:
6	10%			Deminions of Five Vegetation Stata.
500 (50)		= Total Cov		Tree - Woody plants, excluding woody vines,
50% of total cover: <u>5</u>	20% of	total cover:		approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: 30 ft 1. Symphyotrichum lateriflorum	3	✓	FAC	(1.15 dily di laigoi in diameter di disastinogra (551.).
Symphyoutchair later moralin Stenotaphrum secundatum	2		FAC	Sapting – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
3. Hedera helix	2		FACU	than 3 in. (7.6 cm) DBH.
	1			
4. Ligustrum sinense	1		FAC	Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
5. Quercus nigra	'		FAC	approximately o to 20 it (1 to 0 iii) in neight.
6				Herb – All herbaceous (non-woody) plants, including
7				herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately
8				3 ft (1 m) in height.
9				Woody vine - All woody vines, regardless of height.
10				Trooty vine - All woody vines, regardless of neight.
11				
		= Total Cov		
50% of total cover: 4.5	20% of	total cover:	1.8	
Woody Vine Stratum (Plot size: 30 ft)				
1. Smilax rotundifolia	40	<u>√</u>	FAC	
2. Hedera helix	10		FACU	
3. Toxicodendron radicans	3		FAC	
4				
5.				Hydrophydic
	53%		 /er	Hydrophytic Vegetation
50% of total cover: 26.5		total cover:		Present? Yes No
Remarks: (If observed, list morphological adaptations belo				1
riemane. (ii observed, list morphological adaptations belo	₩.j.			

Sampling Point: DP-2

SOIL

Profile Desc	ription: (Describe	to the dep	th needed to docun	nent the	indicator	or confirm	m the absence of indicators.)	
Depth	Matrix		Redox	x Feature				
(inches)	Color (moist)	<u> </u>	Color (moist)	%	_Type ¹	_Loc ²	Texture Remarks	<u> </u>
0-10	10YR 3/1	100					Sandy Loam	_
10 - 14	10YR 4/1	100			_		Sandy Clay Loam	İ
14 - 24	7.5YR 5/1	95	7.5YR 5/6	5	С	M	Sandy Clay Loam	_
						· 		_
							-	-
								— I
				. 				_
								1
¹Type: C=Ce	oncentration, D=Dep	letion, RM=	Reduced Matrix, MS	S=Maske	d Sand Gi	ains.	² Location: PL=Pore Lining, M=Matrix.	
Hydric Soil	ndicators: (Applic	able to all	LRRs, unless other	wise no	ted.)		Indicators for Problematic Hydric Soils ³ :	
Histosol	(A1)		Polyvalue Be				U) 1 cm Muck (A9) (LRR O)	ł
ı —	pipedon (A2)		Thin Dark Su				2 cm Muck (A10) (LRR S)	ŀ
Black Hi			Loamy Mucky			R (O)	Reduced Vertic (F18) (outside MLRA 150/	
1	n Suffide (A4) I Layers (A5)		Loamy Gleye Depleted Mat		(FZ)		Piedmont Floodplain Soils (F19) (LRR P, SAnomalous Bright Loamy Soils (F20)	''
l —	Bodies (A6) (LRR P	. T. U)	Depleted Mai	٠,	F6)		(MLRA 153B)	- 1
_	cky Mineral (A7) (LI			•			Red Parent Material (TF2)	
	esence (A8) (LRR U		Redox Depre				Very Shallow Dark Surface (TF12)	
	ck (A9) (LRR P, T)		Marl (F10) (L	RR U)			Other (Explain in Remarks)	l
ı —	l Below Dark Surfac	e (A11)	Depleted Oct		-	•	_	
l —	ark Surface (A12)		Iron-Mangane					ŀ
	rairie Redox (A16) (I lucky Mineral (S1) (I		A) <u>✓</u> Umbric Surfa Delta Ochric				wetland hydrology must be present,	l
	ileyed Matrix (S4)	LICK (), 3)	Reduced Ver		-		unless disturbed or problematic.	
. –	edox (S5)		Piedmont Flo					İ
	Matrix (S6)						RA 149A, 153C, 153D)	i
Dark Su	rface (S7) (LRR P, S	S, T, U)						
Restrictive I	ayer (if observed):							
Type:								
Depth (in:	ches):						Hydric Soil Present? Yes No	_
Remarks:			-					
1								-
								l
								l
								:
								ŀ
								1



Photograph 3: View of surface water facing west at Data Point 2.



Photograph 4: View of hydric soil profile at Data Point 2.

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: 2015 W. Pemb	roke A	ve (3257	6.01)	c	City/Cour	nty: Han	npton		Sampling Date: 2023-02-15
Applicant/Owner: James Riv	er Petr	oleum, In	ic.					State: Virginia	Sampling Point: DP-3
Investigator(s): C. Hemphill	, WSSI								, ,
Landform (hillslope, terrace, et	lc.): <u>Flat</u>					•			Slope (%): 1
Subregion (LRR or MLRA): T									Datum: NAD 83
Soil Map Unit Name: 24 - To	motley-	-Urban lar	nd comp	plex, 0 to 2 p	percent	slopes		NWI classific	cation: PFO1B
Are climatic / hydrologic condit	tions on t	he site typ	ical for th	nis time of yea	ar? Yes		No <u> </u>	(If no, explain in F	Remarks.)
Are Vegetation, Soil	, or	Hydrology	·	significantly of	disturbed	1?	Are "Norma	al Circumstances" ¡	oresent? Yes No
Are Vegetation, Soil	, ог	Hydrology		naturally prob	blematic	?	(If needed,	explain any answe	ers in Remarks.)
SUMMARY OF FINDING	3S - A	ttach si	te map	showing	sampl	ing poi	nt locati	ons, transects	, important features, etc.
Hydrophytic Vegetation Pres Hydric Soil Present? Wetland Hydrology Present?		Yes _	✓	No No No		the Sam	pled Area etland?	Yes✓	No
Remarks:									
Data point collected on eastern portion of site within hardwood forest. Wetter than normal conditions present.									
HYDROLOGY									
Wetland Hydrology Indicate	ors:							Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum	of one is	required;	check al	l that apply)				Surface Soil	Cracks (B6)
✓ Surface Water (A1)		_	Aquati	c Fauna (B13))				getated Concave Surface (B8)
High Water Table (A2)		_	_ Marl D	eposits (B15)	(LRR U)		✓ Drainage Pa	tterns (B10)
✓ Saturation (A3)		_	_ Hydrog	gen Sulfide Od	dor (C1)			Moss Trim L	ines (B16)
Water Marks (B1)		_		ed Rhizosphe	res alon	g Living F	Roots (C3)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)				nce of Reduce	-			Crayfish Bur	, ,
Drift Deposits (B3)			_	t Iron Reduction		led Soils ((C6)	,	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)			_	luck Surface (✓ Geomorphic	
Iron Deposits (B5)			_ Other ((Explain in Re	emarks)			Shallow Aqu	• •
Inundation Visible on Ae		ery (B7)						FAC-Neutral	• •
Water-Stained Leaves (E	39)					-		Sphagnum n	noss (D8) (LRR T, U)
Field Observations:	W	1	_		2				
Surface Water Present?				epth (inches):					
Water Table Present?				epth (inches):					
Saturation Present? (includes capillary fringe)	Yes _	<u>*</u> No _	D	epth (inches):			Wetland	Hydrology Preser	nt? Yes No
Describe Recorded Data (stre	eam gau	ge, monito	ring well,	, aerial photos	s, previo	us inspec	tions), if av	ailable:	
Remarks:									
1									

VEGETATION (Five Strata) – Use scientific names of plants.

VEGETATION (Five Strata) – Use scientific nar	nes of pla	ants.		Sampling Point: DP-3
20.6		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft)		Species?		Number of Dominant Species _
1. Acer rubrum	30		FAC	That Are OBL, FACW, or FAC: 7 (A)
2. Liquidambar styraciflua	20		FAC	Total Number of Dominant
3. Quercus falcata	10		FACU	Species Across All Strata: 9 (B)
4. Quercus phellos	10		FACW	
5. Quercus nigra	10		FAC	Percent of Dominant Species That Are OBL, FACW, or FAC: 77.8 (A/B)
6. Magnolia grandiflora	5		FAC	(32)
	85%	= Total Cov	er	Prevalence Index worksheet:
50% of total cover: 42.5	20% of	total cover:	17	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 30 ft)				OBL species 8 x 1 = 8
1. Magnolia grandiflora	3	✓	FAC	FACW species <u>20</u> x 2 = <u>40</u>
2.				FAC species 92 x 3 = 276
3.				FACU species 36 x4 = 144
				UPL species 0 x 5 = 0
4				Column Totals: 156 (A) 468 (B)
5				
6	3%			Prevalence Index = B/A = 3.00
15		= Total Cov	-	Hydrophytic Vegetation Indicators:
50% of total cover: 1.5	20% of	total cover:	0.6	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30 ft	40	,		✓ 2 - Dominance Test is >50%
1. Quercus phellos	10		FACW	✓ 3 - Prevalence Index is ≤3.01
2. Quercus nigra	8	✓	FAC	Problematic Hydrophytic Vegetation¹ (Explain)
3. Magnolia grandiflora	2		FAC	
4. Juniperus virginiana	1		FACU	¹ Indicators of hydric soil and wetland hydrology must
5. Pinus taeda	1		FAC	be present, unless disturbed or problematic.
6				Definitions of Five Vegetation Strata:
	22%	= Total Cov	er	Trop Mondy planta avaluding wandy since
50% of total cover: 11	20% of	total cover:	4.4	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 30 ft)				(7.6 cm) or larger in diameter at breast height (DBH).
1. Leersia oryzoides	8	✓	OBL	Sapling - Woody plants, excluding woody vines,
2. Symphyotrichum lateriflorum	3	- ✓	FAC	approximately 20 ft (6 m) or more in height and less
3				than 3 in. (7.6 cm) DBH.
4				Shrub – Woody plants, excluding woody vines,
5.				approximately 3 to 20 ft (1 to 6 m) in height.
				Herb – All herbaceous (non-woody) plants, including
	·			herbaceous vines, regardless of size, and woody
7				plants, except woody vines, less than approximately
8				3 ft (1 m) in height.
9				Woody vine - All woody vines, regardless of height.
10				
11	4404			
		= Total Cov		
50% of total cover: 5.5	20% of	total cover:	2.2	
Woody Vine Stratum (Plot size: 30 ft)				
1. Lonicera japonica	<u>15</u>	<u> </u>	FACU	
2. Hedera helix	10	<u> ✓</u>	FACU	
3. Toxicodendron radicans	5		FAC	
4. Smilax rotundifolia	3		FAC	
5. Vitis rotundifolia	2		FAC	Hydrophytic
	35%	= Total Cov	er	Vegetation
50% of total cover: 17.5		total cover:	_	Present? Yes No
Remarks: (If observed, list morphological adaptations belo				L
				İ

Profile Desc	ription: (Describe	to the dep	oth needed to docur	nent the	indicator	or confirm	the absence of indica	tors.)
Depth (inches)	Matrix			x Feature		2	~	
(inches) 0 - 10	Color (moist) 10YR 3/1	100	Color (moist)	<u> </u>	_ Type ¹	_Loc²	Texture	Remarks
							Sandy Loam	
10 - 20	10YR 4/1	100					Sandy Clay Loam	
20 - 24	10YR 5/2	98	7.5YR 5/6	2	<u> </u>	<u>M</u>	Sandy Clay	·
								·
								
			=Reduced Matrix, MS			ains.	² Location: PL=Pore	
1		able to all	LRRs, unless other		•	DD 0 T 1		ematic Hydric Soils ³ :
Histosol	(AT) Dipedon (A2)		Polyvalue Be Thin Dark Su				J) 1 cm Muck (A9) 2 cm Muck (A10	
1 —	stic (A3)		Loamy Muck					(F18) (outside MLRA 150A,B)
1	n Sulfide (A4)		Loamy Gleye	•		. •,		plain Soils (F19) (LRR P, S, T)
Stratified	Layers (A5)		Depleted Mar		•			ht Loamy Soils (F20)
1	Bodies (A6) (LRR P		Redox Dark	•	•		(MLRA 153B)	
. —	cky Mineral (A7) (LI						Red Parent Mate	
	esence (A8) (LRR U ck (A9) (LRR P, T))	Redox Depre Marl (F10) (L	•	-8)		Very Shallow Da Other (Explain in	urk Surface (TF12)
	Below Dark Surfac	e (A11)	Depleted Oct	•	(MLRA 1	51)	Outer (Explain ii	i Reliaiks)
	rk Surface (A12)	• (,	Iron-Mangan				T) ³ Indicators of h	ydrophytic vegetation and
Coast P	rairie Redox (A16) (I	MLRA 150				, U)	wetland hydro	ology must be present,
ļ —- ·	lucky Mineral (S1) (I	RR O, S)	Delta Ochric					ped or problematic.
1 —	leyed Matrix (S4)		Reduced Ver					
,	edox (S5) Matrix (S6)		Piedmont Flo				19A) A 149A, 153C, 153D)	
	rface (S7) (LRR P, S	s. T. U)	Anomaious L	mym coa	uny dons (1 20) (MILIN	A 143A, 103O, 103D)	
	_ayer (if observed):							
Type:								
Depth (in	ches):						Hydric Soil Present?	Yes No
Remarks:							<u> </u>	
1								
i								



Photograph 5: View of surrounding wetland landscape facing north at Data Point 3.



Photograph 6: View of hydric soil profile at Data Point 3.

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: 2015 W. Pembroke Ave (32576.01) City/County	Hampton Sampling Date: 2023-02-15
Applicant/Owner: James River Petroleum, Inc.	State: Virginia Sampling Point: DP-4
Investigator(s): C. Hemphill, WSSI Section, To	
State Virginia Sampling Point DP-4	
	· —
Are Vegetation, Soil, or Hydrology naturally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing samplin	g point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes _ ✓ No	o Samulad Area
Hydric Soil Present? Yes No _ ✓	· · · · · · · · · · · · · · · · · · ·
Wetland Hydrology Present? Yes No✓	in a wettand? Tes No
	hin hardwood forest. Wetter than normal
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	· ·
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
	_ · · ·
1 —	• • • • • • • • • • • • • • • • • • • •
<u> </u>	_ , ,
1 — · · · · — · · ·	
_ , , , , , , , , , , , , , , , , , , ,	
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	opinigram moss (50) (Erat 1; 0)
Surface Water Present? Yes No ✓ _ Depth (inches):	
Water Table Present? Yes ✓ No Depth (inches): 20	
Saturation Present? Yes Vo Depth (inches): 20	Wetland Hydrology Present? Yes No ✓
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous	inspections), if available:
Remarks:	
Water table and soil saturation present at -20 inch	es below surface. No other primary or
secondary indicators present.	,
maicators present.	

_ 20 ft			t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft)			? Status	Number of Dominant Species
1. Liquidambar styraciflua	50		FAC	That Are OBL, FACW, or FAC: 5 (A)
2. Acer rubrum			FAC	Total Number of Dominant
3				Species Across All Strata: 8 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 62.5 (A/B)
6				
	70%	= Total Co	ver	Prevalence Index worksheet:
50% of total cover: 35	20% of	total cove	r: 14	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 30 ft)				OBL species 0 x 1 = 0
1				FACW species 0 x 2 = 0
2.				FAC species 138 x 3 = 414
3				FACU species 17 x 4 = 68
				UPL species 0 x 5 = 0
4				Column Totals: <u>155</u> (A) <u>482</u> (B)
5				
6	•	- Total Ca		Prevalence Index = B/A = 3.11
50% of total cover:				Hydrophytic Vegetation Indicators:
20.6	20% 01	total cove	'	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30 ft)	50	1	FAC	✓ 2 - Dominance Test is >50%
2. Magnolia grandiflora	5		FAC	3 - Prevalence Index is ≤3.0¹
3. Ilex opaca	3		FAC	Problematic Hydrophytic Vegetation¹ (Explain)
	· 			
4				¹ Indicators of hydric soil and wetland hydrology must
5				be present, unless disturbed or problematic.
6				Definitions of Five Vegetation Strata:
	58%			Tree - Woody plants, excluding woody vines,
50% of total cover: 29	20% of	total cove	_{r:} <u>11.6</u>	approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 30 ft)				(7.6 cm) or larger in diameter at breast height (DBH).
1. Hedera helix	3		FACU	Sapling - Woody plants, excluding woody vines,
2				approximately 20 ft (6 m) or more in height and less
3				than 3 in. (7.6 cm) DBH.
4				Shrub – Woody plants, excluding woody vines,
5				approximately 3 to 20 ft (1 to 6 m) in height.
6.				Herb – All herbaceous (non-woody) plants, including
7				herbaceous vines, regardless of size, and woody
8			· ——	plants, except woody vines, less than approximately
				3 ft (1 m) in height.
9				Woody vine - All woody vines, regardless of height.
10	· ——			
11	3%			
. 45		= Total Co		
50% of total cover: 1.5	20% of	total cove	r: <u>U.0</u>	
Woody Vine Stratum (Plot size: 30 ft	_			
1. Hedera helix			FACU	
2. Lonicera japonica	. 7		FACU	
3. Vitis rotundifolia	5		FAC	
4. Smilax rotundifolia	5	√	FAC	
5				Hydrophytic
	24%	= Total Co	ver	Vegetation
50% of total cover: 12	20% of	total cove	r: <u>4.8</u>	Present? Yes No
Remarks: (If observed, list morphological adaptations belo	ow).		<u></u>	<u> </u>
· · ·	•			

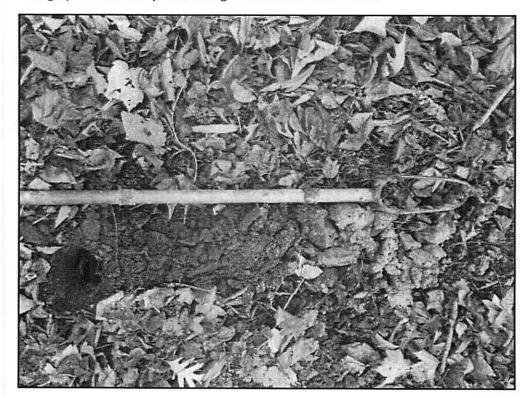
Sampling Point: DP-4

SOIL

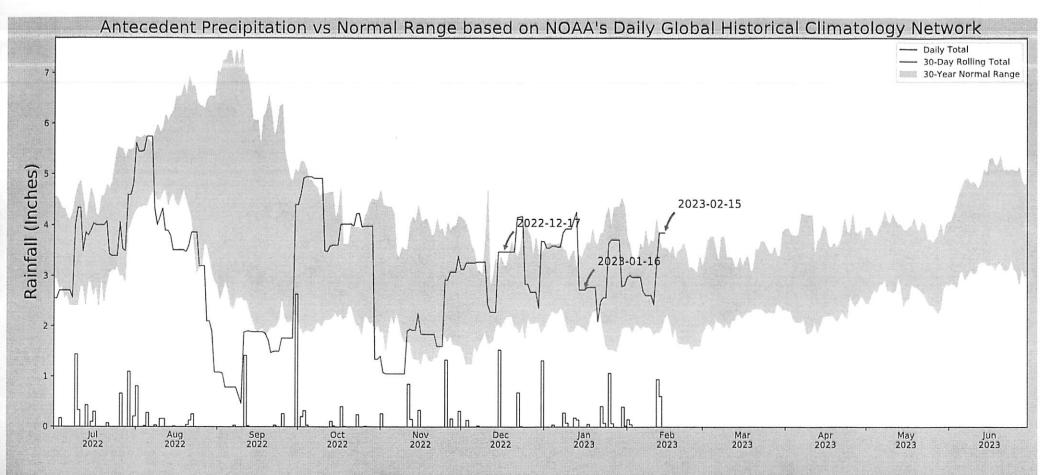
Profile Deer	rintion: (Describe	to the der	oth needed to docum	ent the i	ndicator	or confirm	n the absence		ne i	JIII	
Depth	Matrix	ure uel		Features		o. commi	abstill	or murcall	,		
(inches)	Color (moist)	%	Color (moist)	<u> </u>	Type ¹	Loc²	Texture		Remar	ks	
0 - 12	2.5Y 3/3	100					Sandy Loam				
12 - 24	10YR 5/2	98	7.5YR 5/6	2	c	M	Sandy Clay				
12-24	1011/3/2	30	7.518 3/0		<u> </u>	101	Salidy Clay				
-											
-								-	-		
			=Reduced Matrix, MS			ains.	² Location:				
		able to all	LRRs, unless other		-		Indicators			ric Soils"	•
Histosol			Polyvalue Bel					luck (A9) (I			
Black Hi	sipedon (A2)		Thin Dark Sur Loamy Mucky				_	luck (A10) : ed Vertic (F	•	do MI DA	460 A D)
	n Sulfide (A4)		Loamy Gleye			. ,		ent Floodpl			
	Layers (A5)		Depleted Mat		,			lous Bright			-, -, -,
	Bodies (A6) (LRR P,	T, U)	Redox Dark S		6)			A 153B)	, 30		
5 cm Mu	cky Mineral (A7) (LR	RP, T, U) Depleted Dark	k Surface	(F7)			rent Mater			
	esence (A8) (LRR U)	Redox Depres		B)			hallow Darl		TF12)	
	ck (A9) (LRR P, T)		Marl (F10) (LI	-			Other (Explain in I	Remarks)		
	Below Dark Surface	e (A11)	Depleted Och		-	-	T) 31-41-	-4 <i>-6</i> h		4 -4:	
	irk Surface (A12) airie Redox (A16) (N	N PA 150	Iron-Mangane A) Umbric Surface					ators of hydrol		-	
	ucky Mineral (S1) (L					, 0,		ess disturbe			•
	leyed Matrix (S4)		Reduced Vert			0A, 150B)			, p. 00.	JGG.	
Sandy R	edox (S5)		Piedmont Flor	odplain S	oils (F19)	(MLRA 14	19A)				
	Matrix (S6)		Anomalous B	right Loar	ny Soils (F20) (MLR	RA 149A, 153C,	153D)			
	face (S7) (LRR P, S										
Restrictive L	ayer (if observed):										
Type:	-										
Depth (inc	thes):						Hydric Soil	Present?	Yes	No.	-
Remarks:											
											1



Photograph 7: View of uplands facing southwest at Data Point 4.



Photograph 8: View of non-hydric soil profile at Data Point 4.



Coordinates	37.006763, -76.391982
Observation Date	2023-02-15
Elevation (ft)	13.12
Drought Index (PDSI)	Mild drought (2023-01)
WebWIMP H₂O Balance	Wet Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2023-02-15	2.175197	3.573228	3.862205	Wet	3	3	9
2023-01-16	1.96378	3.535827	2.732284	Normal	2	2	4
2022-12-17	2.095276	3.227559	3.484252	Wet	3	1	3
Result							Wetter than Normal - 15



Days (Antecedent)	Days (Normal)	Weighted A	Elevation Δ	Distance (mi)	Elevation (ft)	Coordinates	Weather Station Name
89	10263	3.369	3.94	7.422	17.06	36.9375, -76.2892	NORFOLK NAS
0	2	0.407	0.981	0.903	12.139	36.9945, -76.3863	HAMPTON 6.3 SW
0	1	0.93	0.003	2.068	13.123	37.0186, -76.4264	NEWPORT NEWS 6.3 SE
0	13	1.228	6.23	2.691	6.89	37.0202, -76.3462	HAMPTON 3.5 SW
0	257	1.468	3.277	3.238	9.843	37.0225, -76.3367	HAMPTON UNIV
0	42	1.496	9.846	3.254	22.966	37.0459, -76.4248	HAMPTON 7.2 W
0	3	2.112	8.862	4.602	21.982	37.0606, -76.4411	HAMPTON 8.1 W
0	685	2.617	3.277	5.773	9.843	37.0833, -76.35	LANGLEY AFB
0	21	2.787	20.016	5.93	33.136	37.0891, -76.4223	HAMPTON 7.5 WNW
0	4	4.885	22.969	10.329	36.089	37.1322, -76.4939	NEWPORT NEWS INTL AP
0	62	5.923	1.965	13.105	11.155	36.9036, -76.1928	NORFOLK INTL AP
1	0	N/A	N/A	N/A	N/A	N/A	Linear Interpolation