

# SOVEREIGN CONSULTING INC.

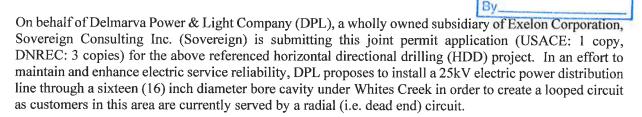
March 21, 2019

U.S. Army Corps of Engineers 1203 College Park Drive, Suite 103 Dover, Delaware 19904

Delaware Department of Natural Resources and Environmental Control Wetlands and Subaqueous Lands Section 89 Kings Highway Dover, Delaware 19901

# Re: NWP-12 & Wetlands and Subaqueous Lands Section Permit Application Delmarva Power & Light Company Whites Creek HDD Sussex County, Delaware

Dear Sir/Madam:



It is not anticipated that any excavation or fill within tidal or non-tidal wetlands will occur as a result of this project. However, Whites Creek is a tidal waterbody and the HDD bore will travel under this resource necessitating regulatory review by the United States Army Corps of Engineers (USACE) and the Delaware Department of Natural Resources and Environmental Control (DNREC). Therefore, on behalf of DPL, Sovereign requests a NWP-12 from the USACE and a Wetlands and Subaqueous Lands Section Permit from DNREC.

Please find attached copies of USACE form 4345, DNREC's Wetlands and Subaqueous Lands Section Basic Application, required supplemental information, and figures containing details of the project location and proposed activities. Additionally enclosed in the package for DNREC is a \$450.00 permit review fee check. If you have any questions or require further information regarding this application, please contact me at 703.732.3162 or Grant Parker at 410.860.6232.

Sincerely, SOVEREIGN CONSULTING INC.

Daniel C. Lucey, P.E., LEED<sup>®</sup>AP Senior Engineer

Attachments



An Exelon Company

# U.S. ARMY CORPS OF ENGINEERS AND DELAWARE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL JOINT PERMIT APPLICATION

FOR

WHITES CREEK HORIZONTAL DIRECTIONAL DRILLING SUSSEX COUNTY, DELAWARE

**MARCH 2019** 



**PREPARED FOR:** 

DELMARVA POWER & LIGHT COMPANY PO BOX 9239 NEWARK, DE 19714

**PREPARED BY:** 

SOVEREIGN CONSULTING INC. 50 WEST WELSH POOL ROAD, SUITE 6 EXTON, PA 19341



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Attachment 1 USACE Form 4345



U.S. Army Corps of Engineers	(10400)				
APPLICATION FOR DEPARTMENT OF T 33 CFR 325. The proponent agency is C	THE ARMY PERMIT	Form Approved - OMB No. 0710-0003 Expires: 01-08-2018			
The public reporting burden for this collection of information, OMB Control Ne for reviewing instructions, searching existing data sources, gathering and ma information. Send comments regarding the burden estimate or burden reduct at whs.mc-alex.esd.mbx.dd-dod-information-collections@mail.mli. Responde be subject to any penalty for failing to comply with a collection of information RETURN YOUR APPLICATION TO THE ABOVE EMAIL.	intaining the data needed, and completing and reviewing i fion suggestions to the Department of Defense, Washingto ents should be aware that polyithstanding any other provide	the collection of on Headquarters Services,			
	ACT STATEMENT				
Authorities: Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water A Section 103. 33 USC 1413; Regulatory Programs of the Corps of Engineers; will be used in evaluating the application for a permit. Routine Uses: This info local government agencies, and the public and may be made available as pa is voluntary, however, if information is not provided the permit application can reproducible copies which show the location and character of the proposed a and be submitted to the District Engineer having jurisdiction over the location System of Record Notice (SORN). The information received is entered into or and may be accessed at the following website: http://dpcld.defense.gov/Priva	Final Rule 33 CFR 320-332. Principal Purpose: Informatic ormation may be shared with the Department of Justice an rt of a public notice as required by Federal law. Submission on the evaluated nor can a permit be issued. One set of o citivity must be attached to this application (see sample dra of the proposed activity. An application that is not comple- pur permit tracking database and a SORN has been comple-	on provided on this form d other federal, state, and on of requested information original drawings or good awings and/or instructions) ted in full will be returned.			
	BE FILLED BY THE CORPS)	-1000			
1. APPLICATION NO. 2. FIELD OFFICE CODE	3. DATE RECEIVED 4. DATE APP	PLICATION COMPLETE			
	3E FILLED BY APPLICANT)				
5. APPLICANT'S NAME	8. AUTHORIZED AGENT'S NAME AND TITLE (ager	nt is not required)			
First - Grant Middle - Last - Parker Company - Delmarva Power & Light Company	First - Daniel Middle - C Last - Lucey Company - Sovereign Consulting, Inc P E W/ F D				
E-mail Address - Grant.Parker@delmarva.com	E-mail Address - dlucey@sovcon.com				
6. APPLICANT'S ADDRESS: Address- PO Box 1739	9. AGENT'S ADDRESS: MAR 2 5 2019 Address- 50 West Welsh Popl Road, Suite 6				
City - Salisbury State - MD Zip - 21802 Country - USA	City - Exton State PA Zip - 19341 Country - USA				
7. APPLICANT'S PHONE NOs. WAREA CODE	10. AGENTS PHONE NOs. WAREA CODE				
a. Residence b. Business c. Fax 410-860-6232		c. Fax 610-524-8129			
STATEMENT	OF AUTHORIZATION				
<ol> <li>I hereby authorize, <u>Daniel Lucey</u> to act in my behalf a supplemental information in support of this permit application.</li> </ol>	as my agent in the processing of this application and to fur	nísh, upon request,			
SIGNATURE OF APPLICANT					
NAME, LOCATION, AND DESC	RIPTION OF PROJECT OR ACTIVITY				
12. PROJECT NAME OR TITLE (see instructions) Whites Creek HDD					
13. NAME OF WATERBODY, IF KNOWN (if applicable)	14. PROJECT STREET ADDRESS (if applicable)				
Whites Creek	Address See Attachment 4				
15. LOCATION OF PROJECT					
Latitude: «N 38° 33' 15.78" Longitude: «W 75° 05' 40.51"	City - Ocean View State- DE	Zip- 19970			
16. OTHER LOCATION DESCRIPTIONS, IF KNOWN (see instructions)	11- <b>11</b> - 11-				
State Tax Parcel ID Municipality					
Section - Township -	Range -				

17. DIRECTIONS TO THE SITE See Atlachment 4		
18. Nature of Activity (Description of project, include	e all features)	
The applicant proposes to install a 25kV elect through a sixteen (16) inch cavity through the	ric power distribution line under Whites Creek use of a horizontal directional drill (HDD). It s a result of this project. The HDD design project	by pulling four (4) four-inch diameter conduits is not anticipated that any excavation or fill poses that the conduit will be located at least
19. Project Purpose (Describe the reason or purpos	e of the project, see instructions)	
In an errort to maintain and enhance electric s	ervice reliability, the applicant proposes to inst der Whites Creek in order to create a looped ci	all a 25kV electric power distribution line rcuit as customers in this area are currently
USE BLOCKS 2	20-23 IF DREDGED AND/OR FILL MATERIAL IS TO	BE DISCHARGED
20. Reason(s) for Discharge N/A		By
21. Type(s) of Material Being Discharged and the A	nount of Each Type in Cubic Yards:	
Type Amount in Cubic Yards	Type Amount in Cubic Yards	Type Amount in Cubic Yards
N/A	N/A	N/A
22. Surface Area in Acres of Wetlands or Other Wat	ers Filled (see instructions)	
Acres N/A		
Linear Feet N/A		
23. Description of Avoidance, Minimization, and Cor N/A	npensation (see instructions)	

24. Is Any Portion of the	Work Already Complete?	Yes No IF YES, DESC	RIBE THE COMPLETED WORK	
<ol><li>Addresses of Adjoir</li></ol>	ing Property Owners, Lessee	es, Etc., Whose Property Adjoins	the Waterbody (if more than can be entered here, please attach a supplemental	list)
a. Address- See Exhib	it 10 for complete list of a	Adjacent Property Owners		
City -		State -	710	
		Giard -	Zip -	
o. Address-				
City -		State -	Zip -	
		0000	د. ب ۲	
2. Address-				
Dity -		Stale -	ZID -	
1, Address-			I GEBUER	
Dity -		State -	ZIN R 9 5 2010	
A.I.I				
Address-			Бу	
City -		State -	Zip -	
6. List of Other Certifica	les or Approvals/Denials rec	eived from other Federal, State,	or Local Agencies for Work Described in This Application.	
AGENCY	TYPE APPROVAL*	IDENTIFICATION	ATE APPLIED DATE APPROVED DATE DEI	NIEC
		NUNDER		
	restricted to zoning, building			
<ol> <li>Application is hereby omplete and accurate. 1</li> </ol>	made for permit or permits to further certify that I possess	authorize the work described in the authority to undertake the wo	this application. I certify that this information in this application in rk described herein or am acting as the duly authorized agent of	8
pplicant.	PA	*		uic
SIGNATURE	OF APPLICANT	<u>03/18/2019</u>	Jana C. Jung 3/21/2	<u>201</u>
he Application must b	e signed by the person wi	ho desires to undertake the p	roposed activity (applicant) or it may be signed by a duly	3)
uthorized agent if the	statement in block 11 has	been filled out and signed.		
B U.S.C. Section 100*	provides that: Whoever,	in any manner within the juris	diction of any department or agency of the United States	
		2	- · · · · · · · · · · · · · · · · · · ·	
nowingly and willfully	alsifies, conceals, or cove	ers up any trick, scheme, or d	sguises a material fact or makes any false, fictitious or fra knowing same to contain any false, fictitious or frauduler	audu

# Attachment 2 DNREC Wetlands and Subaqueous Lands Basic Application & Appendix E – Utility Crossings

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Basic Application Form

# WETLANDS AND SUBAQUEOUS LANDS SECTION PERMIT APPLICATION FORM

For Subaqueous Lands, Wetlands, Marina and 401 Water Quality Certification Projects

State of Delaware Department of Natural Resources and Environmental Control Division of Water

Wetlands and Subaqueous Lands Section





APPLICATION FOR APPROVAL OF SUBAQUEOUS LANDS, WETLANDS, MARINA AND WATER QUALITY CERTIFICATION PROJECTS

# PLEASE READ THE FOLLOWING INSTRUCTIONS CAREFULLY

# **Application Instructions:**

- 1. Complete each section of this basic application and appropriate appendices as thoroughly and accurately as possible. Incomplete or inaccurate applications will be returned.
- 2. All applications must be accompanied by a scaled plan view and cross-section view plans that show the location and design details for the proposed project. Full construction plans must be submitted for major projects.
- 3. All applications must have an original signature page and proof of ownership or permitted land use agreement.
- 4. Submit an original and two (2) additional copies of the application (total of 3) with the appropriate application fee and public notice fee\* (prepared in separate checks) to:

# Department of Natural Resources and Environmental Control Wetlands and Subaqueous Lands Section 89 Kings Highway Dover, Delaware 19901

\*Application and public notice fees are non-refundable regardless of the Permit decision or application status.

5. No construction may begin at the project site before written approval has been received from this office.

# Helpful Information:

Tax Parcel Information: New Castle County (302) 395-5400 Kent County (302) 736-2010 Sussex County (302) 855-7878
 Recorder of Deeds: New Castle County (302) 571-7550 Kent County (302) 744-2314 Sussex County (302) 855-7785



- 3. A separate application and/or approval may be required through the Army Corps of Engineers. Applicants are strongly encouraged to contact the Corps for a determination of their permitting requirements. For more information, contact the Philadelphia District Regulator of the Day at (215) 656-6728 or visit their website at: <u>http://www.nap.usace.army.mil/Missions/Regulatory.aspx.</u>
- 4. For questions about this application or the Wetlands and Subaqueous Lands Section, contact us at (302) 739-9943 or visit our website at: <u>http://www.dnrec.delaware.gov/wr/Services/Pages/WetlandsAndSubaqueousLands.aspx</u>. Office hours are Monday through Friday 8:00 AM to 4:30 PM, except on State Holidays.

# **APPLICANT'S REVIEW BEFORE MAILING**

# **DID YOU COMPLETE THE FOLLOWING?**

Yes	BASIC APPLICATION
Yes	SIGNATURE PAGE (Page 3)
Yes	APPLICABLE APPENDICES
Yes	SCALED PLAN VIEW
Yes	SCALED CROSS-SECTION OR ELEVATION VIEW PLANS
Yes	VICINITY MAP
Yes	COPY OF THE PROPERTY DEED & SURVEY
Yes	THREE (3) COMPLETE COPIES OF THE APPLICATION PACKET
Yes	APPROPRIATE APPLICATION FEE & PUBLIC NOTICE FEE (Separate checks made payable to the State of Delaware)

Submit 3 complete copies of the application packet to:

Department of Natural Resources and Environmental Cont Wetlands and Subaqueous Lands Section 89 Kings Highway Dover, Delaware 19901

# Before signing and mailing your application packet, please read the following:

The Department requests that the contractor or party who will perform the construction of your proposed project, if other than the applicant, sign the application signature page along with the applicant in the spaces provided. When the application is signed by the contractor as well as the applicant, the Department will issue the Permit to both parties. For Leases, the contractor will receive a separate construction authorization that will make them subject to all of the terms and conditions of the Lease relating to the construction

#### Section 1: Applicant Identification

- 1. Applicant's Name: Grant Parker Mailing Address: Delmarva Power & Light PO Box 1739 Salisbury, Maryland 21802
- 2. Consultant's Name: <u>Daniel Lucey</u> Mailing Address: <u>50 West Welsh Pool Road, Suite 6</u> Exton, Pennsylvania 19341
- 3. Contractor's Name: \_\_\_\_\_\_ Mailing Address: \_\_\_\_\_\_

Telephone	#: 410-860-6232
Fax #:	
E-mail:	Grant.Parker@delmarva.com
Company 1	Name: <u>Sovereign Consulting</u> ,
Telephone	#: 703-732-3162
Fax #:	
E-mail:	dlucey@sovcon.com
Company N	lame:
Telephone	
Fax #:	
E-mail:	

#### **Section 2: Project Description**

4. Check those that apply:

New Project/addition to existing project?

□ Repair/Replace existing structure? (If checked, must answer #16)

5. Project Purpose (attach additional sheets as necessary):

In an effort to maintain and enhance electric service reliability, the Applicant proposes to install a 25kV electric power distribution line through a sixteen (16) inch diameter bore cavity under Whites Creek in order to create a looped circuit as customers in this area are currently served by a radial (i.e. dead end) circuit.

6. Check each Appendix that is enclosed with this application:

	A. Boat Docking Facilities	G. Bulkheads		_	N. Preliminary	y Marina Che	cklist
	B. Boat Ramps H. Fill				O. Marinas		
	C. Road Crossings	I. Rip-Rap Sills and Revetments			P. Stormwater Management		
	D. Channel Modifications/Dams	J. Vegetative St	abilization		Q. Ponds and Impoundments		
$\checkmark$	E. Utility Crossings	K. Jetties, Groir	ns, Breakwaters		R. Maintenan		
	F. Intake or Outfall Structures	M. Activities in	State Wetlands		S. New Dredging		
						MAR 25 Z	019
Sec	tion 3: Project Location						_
			County:		N.C. 🗆 Kent 🛛	Sussex	
7.	Project Site Address:		Site owner nar	ne (if c	different from a	pplicant):	
-	See Attachment 4		Address of site	e owne	r:		
_							
8.	Driving Directions: See	Attachment 4					
(At	tach a vicinity map identifying road n	ames and the projec	t location)				
9.	Tax Parcel ID Number: <u>See Atta</u>	chment 10	Subdivision Na	ame: _			
ws	LS Use Only: Permit #s:						-
Ту	De SP 🗆 SL 🗆 SU	J D WE D	WQ 🗆 🛛	LA 🗆	SA 🗆	$\mathbf{MP} \ \Box$	WA 🗆
Co	rps Permit: SPGP 18 🗆 20 🗆 Nati	onwide Permit #:		In	dividual Perm	it #	
Rec	eived Date:	Project Scientis	t:				
Fee	Received? Yes 🗆 No 🗆 Amt:	\$	Receipt #:				
	olic Notice #: Public			0	<b>T</b> 7		

Last Revised on: March 28, 2017

Section 3: Project Locat	ion (Continued)					
10. Name of waterbody a	t Project Location	: <u>Whites Creek</u>	waterbody is a	tributary to:	Indian River	Bay
11. Is the waterbody:	😁 Tidal 🗉 No	on-tidal Wate	rbody width at mean	low or ordina	ry high water <u>5</u>	03 ft (MLW)
12. Is the project:	✓ On public suba ✓ In State-regula	aqueous lands? ated wetlands?	On private subaq √In Federally-regu		?	
*If the project is on private See Attach	nent 11 for a c	opy of the Appl	icant's ROŴ agre	eements		
(Written permission from	the private subaqu	eous lands owner	must be included wil	h this applicat	ion)	
13. Present Zoning:	Agricultural	Residential	Commercial	Industrial	Other	
Section 4: Miscellaneous		TANK TICL		PTer		772
<ol> <li>A. List the names an project (attach addition</li> </ol>	hal sheets as neces	ssary):				
See Attachment 10	) for a list of A	djacent Propert	y Owners			
B. For wetlands and m foot radius of the project (a	ttach additional sl	neets as necessary)				
See Attachment 10	for a list of Rip	oarian Property	Owners			
15. Provide the names of DN	NREC and/or Arm	y Corps of Engineer	s representatives who	om you have di	scussed the projec	t with:
A. Have you had a Stat B. Has the project been *If yes, what was t	reviewed in a mo	nthly Joint Permit	rmed on the property Processing Meeting	2	Yes ⊻No Yes ⊻No	
<ol> <li>Are there existing struc *If yes, provide the</li> </ol>	tures or fill at the permit and/or lea	project site in suba ase number(s):	iqueous lands?	• Yes	2 No	
*If no, were structu	res and/or fill in p	place prior to 1969	?	(es <sup>M</sup> No		
17 Have you applied for or ∴ No Pending	obtained a Feder Issued	al permit from the		ineers?		
Type of Permit:NW	/P 12	F	ederal Permit or ID	#:		
18. Have you applied for pe √No Pending	rmits from other s	Sections within DN		Permit	: or ID #:	
Type of permit (circle all the	at apply): Sept	ic Well NP	DES Storm Wa	ter		
Other:						
Last Revised on: March 28, 20	·	OCT - :	L 2019			

Section 3: Project Location (Continued)
10. Name of waterbody at Project Location: <u>Whites Creek</u> waterbody is a tributary to: <u>Indian River Bay</u>
11. Is the waterbody: 🗹 Tidal 🗆 Non-tidal Waterbody width at mean low or ordinary high water453 ft (MLW)
12. Is the project: <sup>™</sup> On public subaqueous lands? <sup>™</sup> In State-regulated wetlands?
*If the project is on private subaqueous lands, provide the name of the subaqueous lands owner: See Attachment 11 for a copy of the Applicant's ROW agreements
(Written permission from the private subaqueous lands owner must be included with this application)
13. Present Zoning:  Agricultural Residential Commercial Industrial Other
Section 4: Miscellaneous
14. A. List the names and complete mailing addresses of the immediately adjoining property owners on all sides of the project (attach additional sheets as necessary):
See Attachment 10 for a list of Adjacent Property Owners
B. For wetlands and marina projects, list the names and complete mailing addresses of property owners within a 1,000 foot radius of the project (attach additional sheets as necessary):           See Attachment 10 for a list of Riparian Property Owners
15. Provide the names of DNREC and/or Army Corps of Engineers representatives whom you have discussed the project with:
A. Have you had a State Jurisdictional Determination performed on the property? B. Has the project been reviewed in a monthly Joint Permit Processing Meeting? *If yes, what was the date of the meeting?
16. Are there existing structures or fill at the project site in subaqueous lands? *If yes, provide the permit and/or lease number(s):
*If no, were structures and/or fill in place prior to 1969?
17. Have you applied for or obtained a Federal permit from the Army Corps of Engineers?         □ No       ▲ Pending       □ Issued       □ Denied       Date:
Type of Permit:     NWP/12     Federal Permit or ID #:
<ul> <li>18. Have you applied for permits from other Sections within DNREC?</li> <li>No</li></ul>
Type of permit (circle all that apply): Septic Well NPDES Storm Water
Other:

#### Section 5: Signature Page

19. Agent Authorization:

If you choose to complete this section, all future correspondence to the Department may be signed by the duly authorized agent. In addition, the agent will become the primary point of contact for all correspondence from the Department.

I do not wish to authorize an agent to act on my behalf  $\Box$ 

I wish to authorize an agent as indicated below 🗹

I, \_\_\_\_\_\_Grant Parker \_\_\_\_\_, hereby designate and authorize \_\_\_\_\_\_Daniel Lucey \_\_\_\_\_\_(Name of Applicant) (Name of Agent) to act on my behalf in the processing of this application and to furnish any additional information requested by the Department.

Authorized Agent':	
Mailing Address:	50 West Welsh Pool Road
	Suite 6
	Exton, Pennsylvania 19341

Telephone	e #:703-732-3162	
Fax #:		
E-mail:	dlucey@sovcon.com	_

20. Agent's Signature:

I hereby certify that the information on this form and on the attached plans are true and accurate to the best of my knowledge. I further understand that the Department may request information in addition to that set forth herein if deemed necessary to appropriately consider this application.

Agent's Signature

3/21/2019 Date

21. Applicant's Signature:

I hereby certify that the information on this form and on the attached plans are true and accurate to the best of my knowledge and that I am required to inform the Department of any changes or updates to the information provided in this application. I further understand that the Department may request information in addition to that set forth herein if deemed necessary to appropriately consider this application. I grant permission to authorized Department representatives to enter upon the premises for inspection purposes during working hours.

Applicant's Signature

Grant Parker, Delmarva Power & Light Print Name

22. Contractor's Signature:

\_\_\_\_\_03/18/2019\_\_\_\_ Date



I hereby certify that the information on this form and on the attached plans are true and accurate to the best of my knowledge, and that I am required to inform the Department of any changes or updates to the information provided in this application. I further understand that the Department may request information in addition to that set forth herein if deemed necessary to appropriately consider this application.

Contractor's Name

Date

Print Name

# **Utility Crossings**

Please respond to each question. Questions left blank may result in the application being returned as incomplete. In addition, the answers to all of the questions in this Appendix must correspond accurately to the information on the plan and section view drawings for the project.

1. Please indicate the total number of subaqueous lands crossings associated with the project here:

2.	The information below is for Crossing #
Ge	neral Information
3.	What type of utility is being installed and what is its diameter?        wastewater pipelineinches      electric line16_inches        water lineinchesTV/cableinches      inchesinches        gas lineinchesfiber optic cableinchesinchesinches        other (describe)
4.	What is the total length of the crossing relative to:
5.	MHW <u>482</u> ft. MLW <u>453</u> ft. OHW <u>510</u> ft. What is the total area of impact for the crossing relative to:
	MHW <u>643</u> sq. ft. MLW <u>603</u> sqft. OHW <u>680</u> sq. ft.
6.	What is the method of installation for the crossing:
	directional bore trench blasting plow If another method of installation will be utilized, please describe here:
7.	Briefly outline the construction sequence for placement of the structure: A pilot hole will be drilled starting on the east side of Whites Creek. Once the drill pipe reaches the west side the hole will be reamed by pulling the pipe and a reamer back from west to east. After the hole is reamed to 16" in diameter a bundle of four 4-inch diameter conduit bundles will be pulled from the west side to the east side. Once the conduit is pulled through the hole the electrical connections will be made on either side of the creek.
If "	Will dredging, excavating, or filling be required? Yes No 'yes", complete the appropriate dredging appendix and/or fill appendix and include them with your dication.

9. Will there be any permanent towers, poles, platforms or other structures (excluding submarine cables) on subaqueous land or in wetlands? \_\_\_\_\_ Yes \_\_\_\_ No

If "yes", give the number of structures, and provide a description, including square footage and material (the location of all structures must be shown on the plans or the application cannot be processed).

- 10. At what depth will the subaqueous crossing be placed below the bottom of the waterbody? \_\_\_\_\_\_ ft. At what height will an aerial crossing be above MHW? \_\_\_\_\_\_\_ feet
- 11. Is the crossing in, on, over or under public (undeeded) or private subaqueous lands?
  Public Private
  If private, who is/are the property holder(s)? Foreside Group, LLC & Tac Beacon, LLC
  Provide a copy of any deed, ROW or easement granting access if the private property owner is other than the applicant. See Attachment 11 for a copy of the ROW agreements
- 12. Is the crossing adjacent to subaqueous lands on State-owned property? \_\_\_\_\_Yes \_\_\_\_No \_\_\_NO \_\_\_\_NO \_\_\_\_NO \_\_\_\_NO \_\_\_\_NO \_\_\_\_NO \_\_\_\_NO \_\_\_NO \_\_\_\_NO \_\_\_NO \_\_\_\_NO \_\_\_\_NO \_\_\_\_NO \_\_\_\_NO \_\_\_NO \_\_NO \_\_NO \_\_\_NO \_\_\_NO \_\_\_NO \_\_NO \_\_NO \_\_NO \_\_NO \_\_NO \_\_NO \_\_NO \_\_\_NO \_\_NO \_\_N

Is the crossing within a DelDOT right of way? \_\_\_\_\_Yes \_\_\_\_No

13. Please include evidence of written permission from the private land owner above (if other than the applicant).

See Attachment 11 for a copy of the Applicant's ROW Agreements

DEG	DEELLU. MAR 25 2019
MAR By	2 5 2019

Attachment 3 Project Description



# Written Description of Project

In an effort to maintain and enhance electric service reliability, Delmarva Power & Light (DPL) proposes to install a 25kV electric power distribution feeder (DE0531) under Whites Creek by pulling four (4) four-inch diameter conduits through a sixteen (16) inch diameter cavity through the use of a horizontal directional drill (HDD). Customers in the vicinity of the project are currently served by a radial (i.e. dead end circuit). Therefore, the purpose of the new 25kV line is to create a looped circuit which will allow electric service to feed from multiple directions in the event of an outage.

A bore rig will be setup within upland areas on the east side of the project near Daisey Avenue and conduit will be staged on the west side of the project near Peaceful Lane to be pulled back through the hole created by the drill bit. The HDD design proposes that the conduit will be located at least twenty (20) feet below the bed of Whites Creek.

A bathymetric survey of Whites Creek was performed by KCI Technologies, Inc. (KCI). Data from the KCI survey was utilized to create plan and profile drawings depicting the proposed HDD bore path. It is not anticipated that any excavation or fill within tidal or non-tidal wetlands will occur as a result of this project. All work is planned to occur within upland areas. However, given the proximity of the upland work areas to tidal wetlands and Whites Creek, erosion controls, site stabilization and DPL HDD boring protocols will be utilized as a best management practices to minimize the amount of sediment that could potentially migrate into jurisdictional areas during a storm event. Copies of applicable DPL BMPs are provided within Attachment 9.

The longitude and latitude for the termini of project location are as follows:

Eastern Terminus	75° 05' 40.51"W	38° 33' 15.78"N
Western Terminus	75° 05' 49.96 <b>''</b> W	38° 33' 14.05"N



# **Environmental Impacts**

The project area was delineated on January 19, 2019 following the "routine method" outlined in the U.S. Army Corps of Engineers 1987 Wetlands Delineation Manual, as modified by the Corps Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region Version 2.0 (November 2010). A full copy of Sovereign's wetland delineation report is provided within Attachment 6. Within the project limits, one wetland, Wetland A, was identified.

Wetland A is a complex of estuarine emergent (E2EM) and estuarine unconsolidated bottom (E1UBL) wetlands associated with Whites Creek. The creek spans the majority of the project area. Vegetation was limited throughout the wetland and includes smooth cordgrass (*Spartina alterniflora*), and high-tide bush (*Iva frutescens*). The soil is a dark brown sandy loam with depleted matrix (10YR 4/1) and meets the indicator status of F3 (depleted matrix). Signs of hydrology include surface water, geomorphic position, and FAC-Neutral test.

There are no permanent impacts associated with this project. The bore path under Whites Creek measured from the edge of delineated tidal wetlands is 564 linear feet. Therefore, given that the diameter of the bore is 16 inches (1.3 feet), temporary impacts due to the bore traveling below Whites Creek are anticipated to be 752 square feet (0.017 acre). Environmental impact drawings are provided within Attachment 5.

# Agency Consultation

Sovereign consulted with the DNREC Division of Fish and Wildlife and the United States Fish and Wildlife Service to determine whether the project will result in adverse impacts to threatened and endangered species. Below is a summary of the responses from each agency; please refer to Attachment 8 for copies of the agency response letters.

# DNREC Division of Fish and Wildlife

The DNREC Division of Fish and Wildlife reviewed the proposed project for any potential adverse impacts to rare, threatened or endangered species, unique natural communities and other significant natural resources. According to their review which is documented in their February 28, 2019 response letter, there are no state or federal listed rare, threatened or endangered species present within the project area.

However, DNREC recommends a time of year restriction for in-stream work from March 1<sup>st</sup> through September 30<sup>th</sup> to protect species such as Summer Flounder, American Eel and Horseshoe Crabs.

#### <u>USFWS</u>

According to the USFWS auto-generated species list dated February 20, 2019, there are no federally proposed or listed endangered or threatened species or critical habitat within the project area. However, USFWS notes that there are several species of migratory birds which could be present within the project area.

Sovereign conducted a visual raptor nest survey for bald eagle (*Haliaeetus leucocephalus*) and osprey (*Pandion haliaetus*) nests within the project limits on January 22, 2019. There were no nests identified during the visual survey (see Attachment 7 for details). As such, a biological assessment or further Section 7 Consultation with USFWS is not required.



There are no permanent impacts associated with this project. The bore path under Whites Creek measured from the edge of delineated tidal wetlands is 510 linear feet. Therefore, given that the diameter of the bore is 16 inches (1.3 feet), temporary impacts due to the bore traveling below Whites Creek are anticipated to be 680 square feet (0.01 acre). Environmental impact drawings are provided within Attachment 5.

# Agency Consultation

Sovereign consulted with the DNREC Division of Fish and Wildlife and the United States Fish and Wildlife Service to determine whether the project will result in adverse impacts to threatened and endangered species. Below is a summary of the responses from each agency; please refer to Attachment 8 for copies of the agency response letters.

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However, DNREC recommends a time of year restriction for in-stream work from March 1<sup>st</sup> through September 30<sup>th</sup> to protect species such as Summer Flounder, American Eel and Horseshoe Crabs.

### **USFWS**

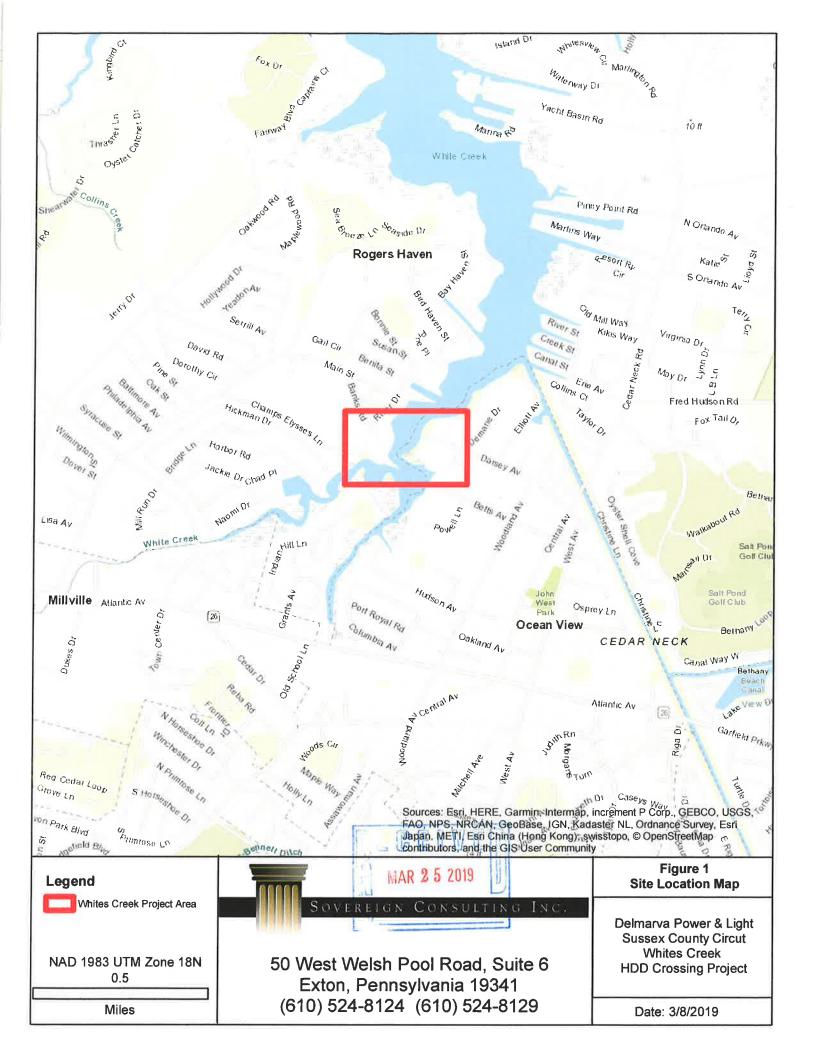
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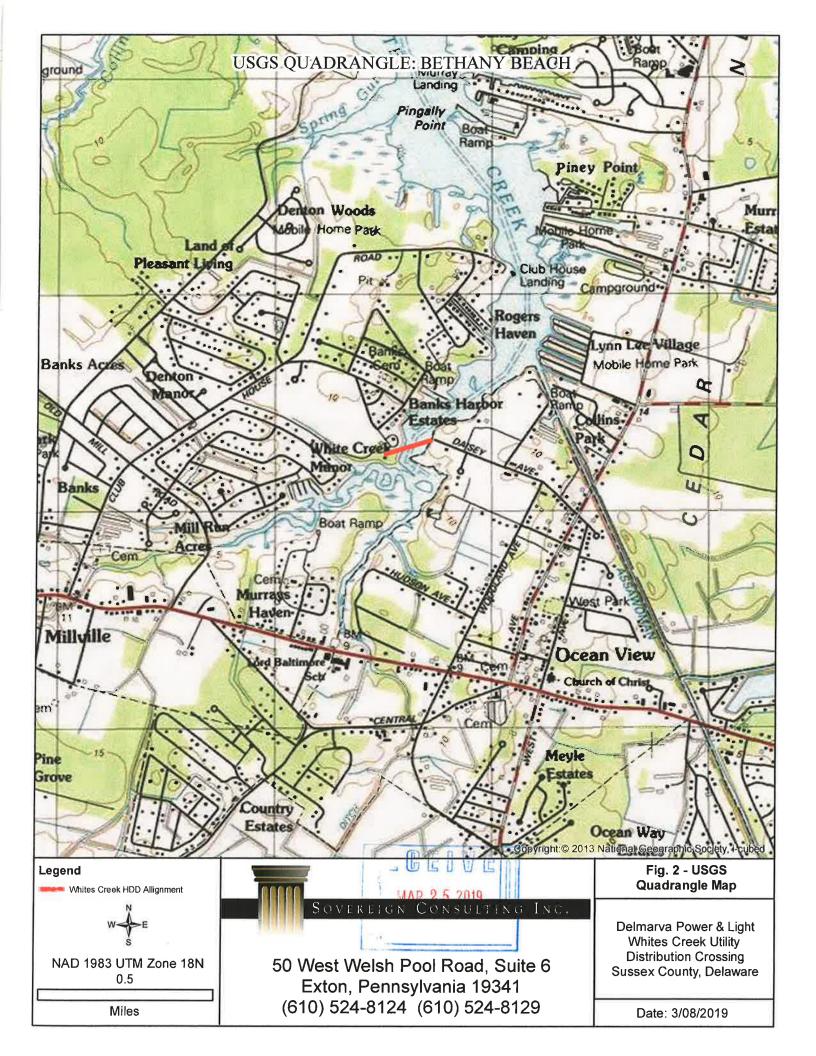
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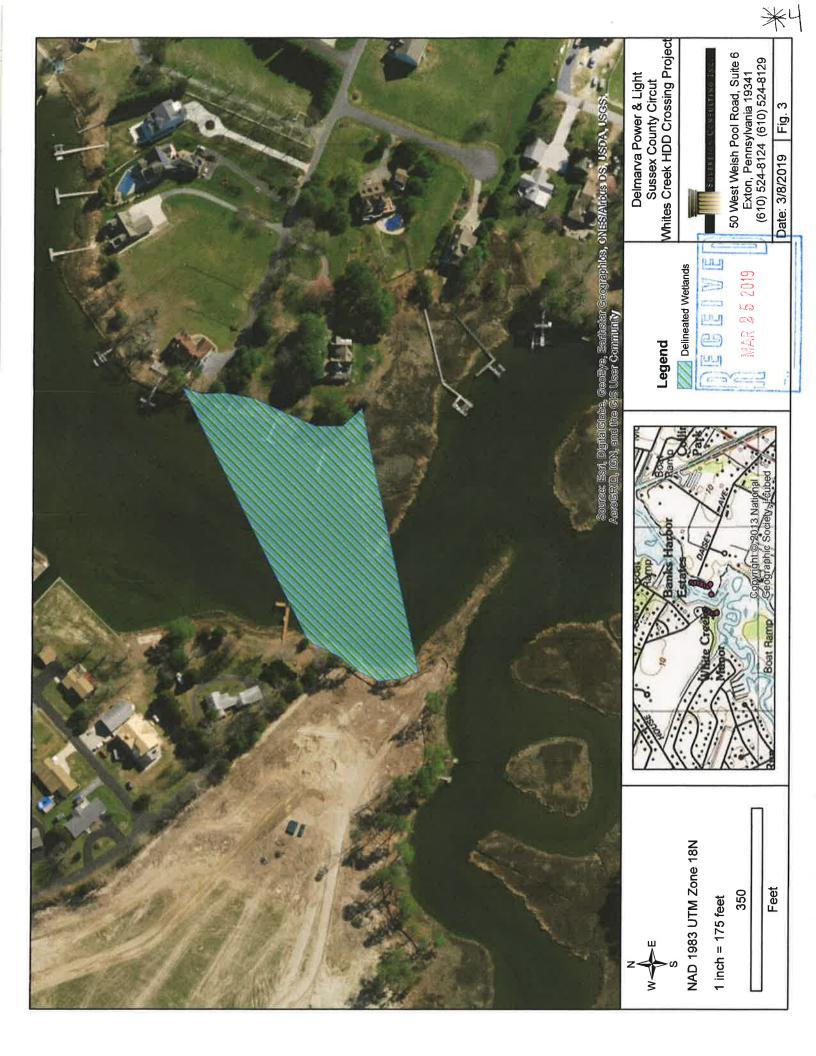
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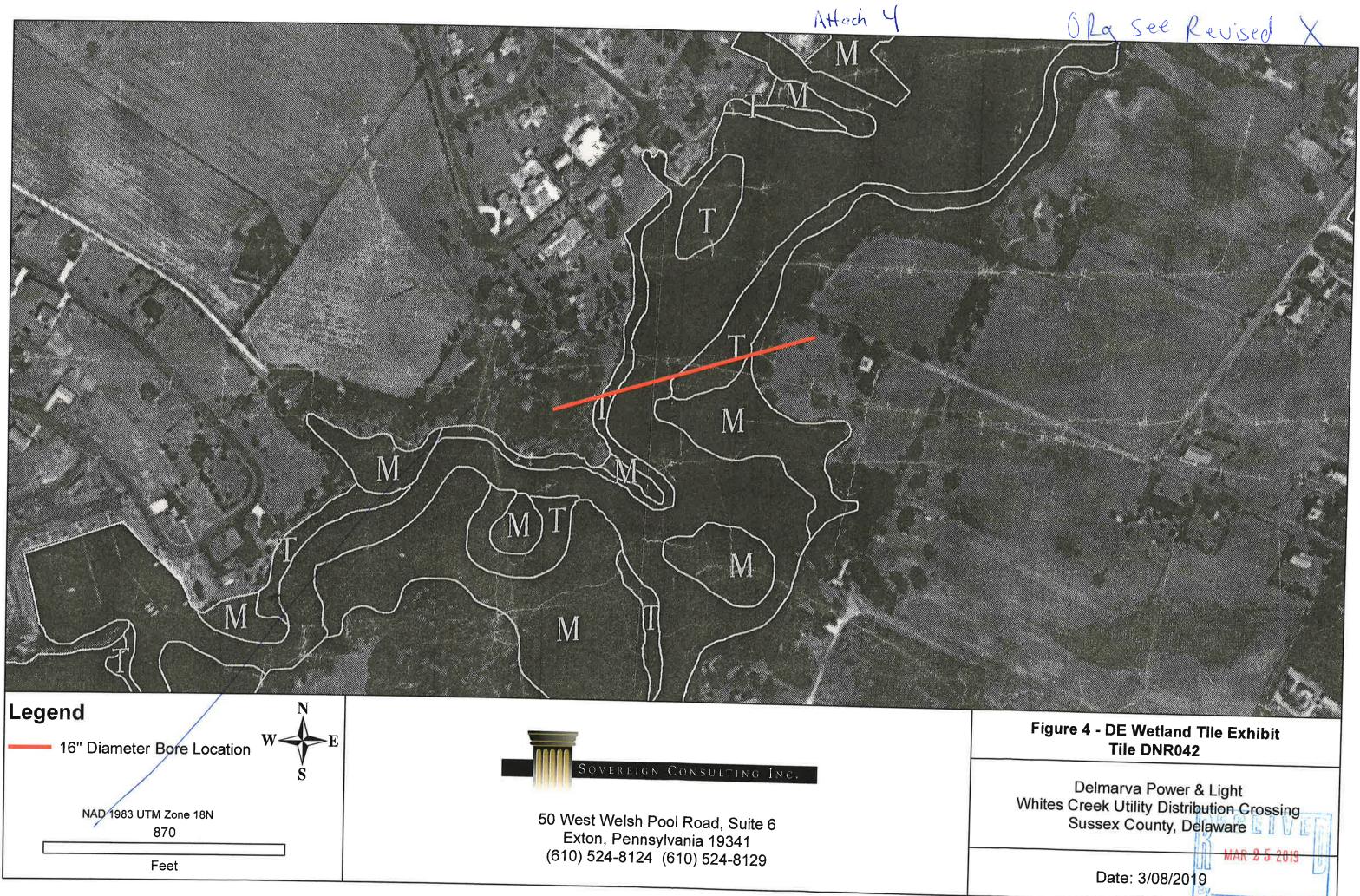
Attachment 4 Site Figures





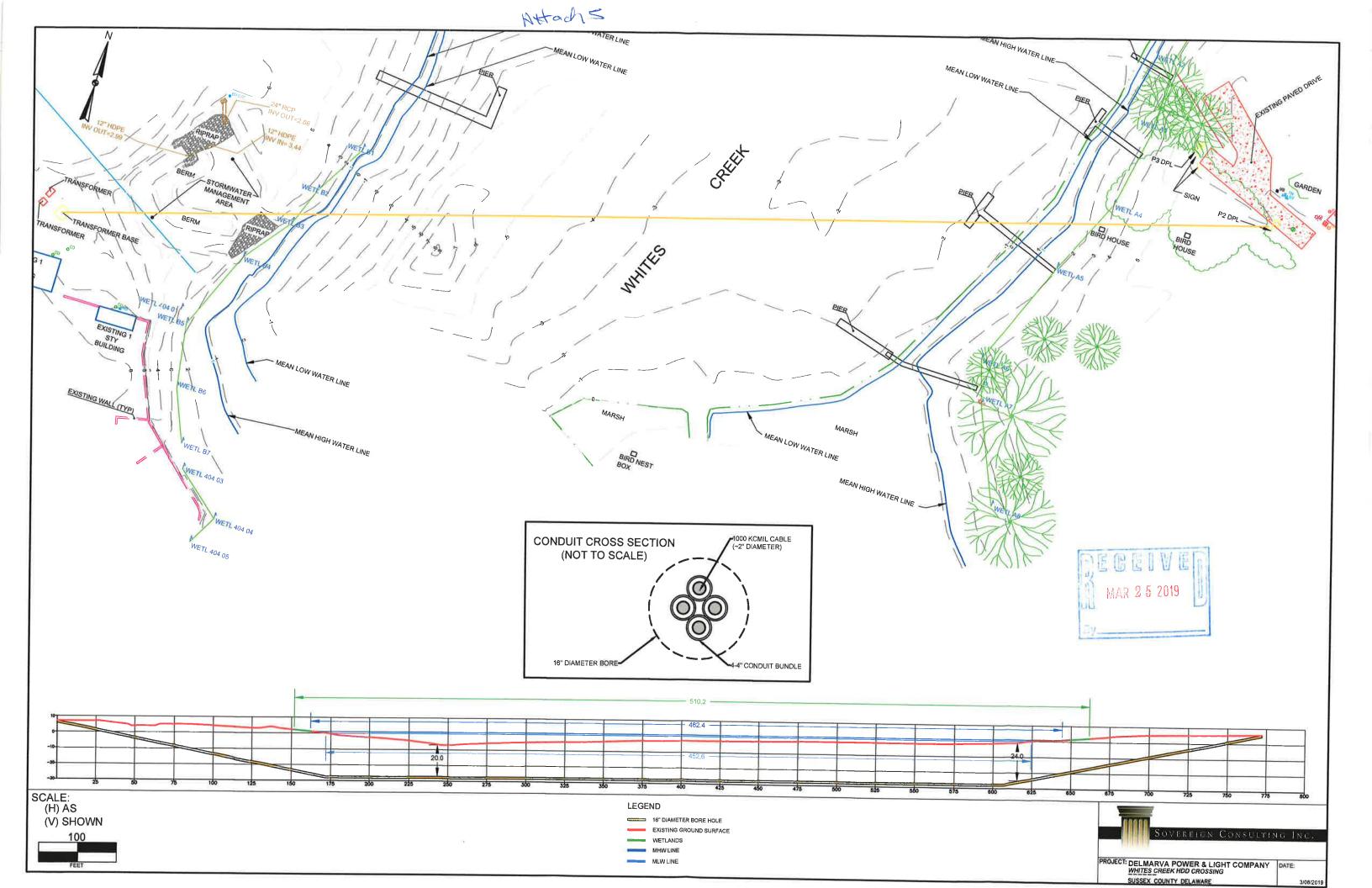






Attachment 5 Environmental Permitting Plans \*5

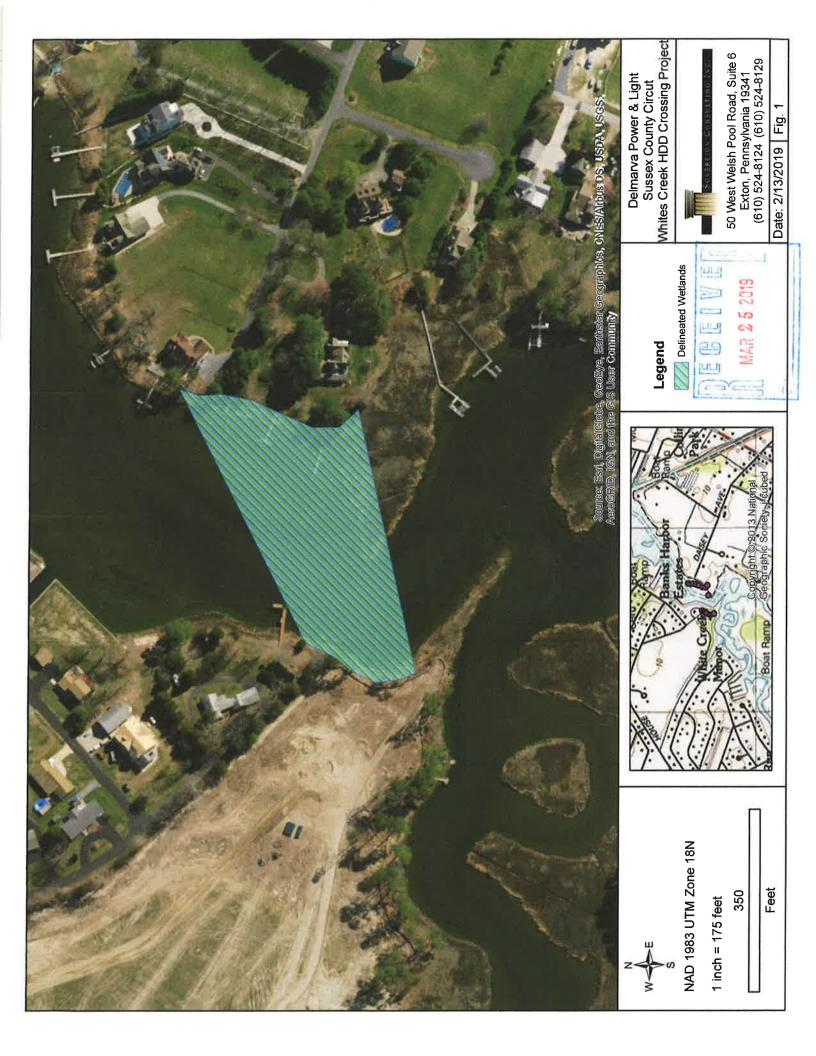






Attachment 3 Wetland Figures





Attachment 7 Raptor Nest Survey Report





An Exelon Company

# **AVIAN NEST SURVEY REPORT**

Whites Creek HDD Crossing Project Sussex County, Delaware

February 2019

Prepared for: Delmarva Power & Light Company PO Box 9239 Newark, DE 19714-9239

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Prepared by: Sovereign Consulting Inc. 50 West Welsh Pool Road, Suite 6 Exton, PA 19341



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# 1. INTRODUCTION

Sovereign Consulting Inc. (Sovereign) conducted a visual raptor nest survey within the specified area of the Whites Creek Horizontal Direction Drilling (HDD) crossing project on behalf of Delmarva Power & Light (DPL), a wholly owned subsidiary of Exelon Corporation. This report was prepared based on the most recent PHI standards (Pepco Holdings, 2016) and summarizes the methodology employed and results of the visual survey completed within the specified area of the Whites Creek HDD crossing project.

# 1.1 Project Description

The project includes an HDD crossing of Whites Creek, which is located within Sussex County, Delaware. Exact details of anticipated HDD activities are unknown at this time.

#### 1.2 Site Description

The project area is located in Sussex County, Delaware, and consists of a mix of land use types including residential, cleared/maintained areas, and tidal wetlands.

## 1.3 Federal and State Regulatory Mechanisms

The bald eagle (*Haliaeetus leucocephalus*) is protected at the federal level through the Bald and Golden Eagle Protection Act (Eagle Act) and the Migratory Bird Treaty Act (MBTA). Both the Eagle Act and the MBTA prohibit the "take" of any bald or golden eagle (Federal Laws that Protect Bald Eagles, 2015). Take is defined as "pursue, shoot, shoot at, poison, wound, kill, capture, trap, collect, molest or disturb" for the Eagle Act and as "pursue, hunt, shoot, wound, kill, trap, capture, possess, or collect" for the MBTA (National Bald Eagle Management Guidelines, 2007). Bald eagles can be very sensitive to human disturbance; to minimize and avoid disturbance, a 660-foot buffer should be maintained if the proposed activity will be visible from the nest and a 1,000-foot buffer should be maintained if the project would utilize helicopters and/or fixed-wing aircraft (National Bald Eagle Management Guidelines, 2007). If these buffers construction within these buffers to avoid incidental "take" of an eagle.

Additionally, a 300-foot buffer from all nests is required for Osprey (*Pandion haliaetus*) during the breeding season, which runs from April 1 through August 31 (Pepco Holdings, Inc., 2015).



# 1.4 Survey Type

Sovereign was contracted by DPL to perform a nest survey within the project area.

# 2. METHODOLOGY

# 2.1 Approach Summary

As directed by DPL, Sovereign conducted a visual nest survey throughout the project area.

# 2.2 Survey Methodology

Based on the location of the project area and direction provided by DPL, Sovereign conducted a visual raptor nest survey using high powered optics such as binoculars and spotting scopes. Sovereign personnel walked the project area on January 22, 2019 (Table 1) and visually surveyed all surrounding areas for evidence of nesting avian species that could potentially be impacted by the project activities.

Table 1. The table below	is a summary of the survey	performed within the project
area.		

Sovereign Personnel	Survey Date	Weather Conditions	Results
Brett Dietz JR Williams	1/22/19	Start: 35°F Fair Winds SSW 12 MPH No Precipitation End: 35°F Fair Winds SSW 12 MPH No Precipitation	No nests observed in target area. Empty nesting platform observed south of project area.

Note: Weather conditions were consistent during the duration of the field event.

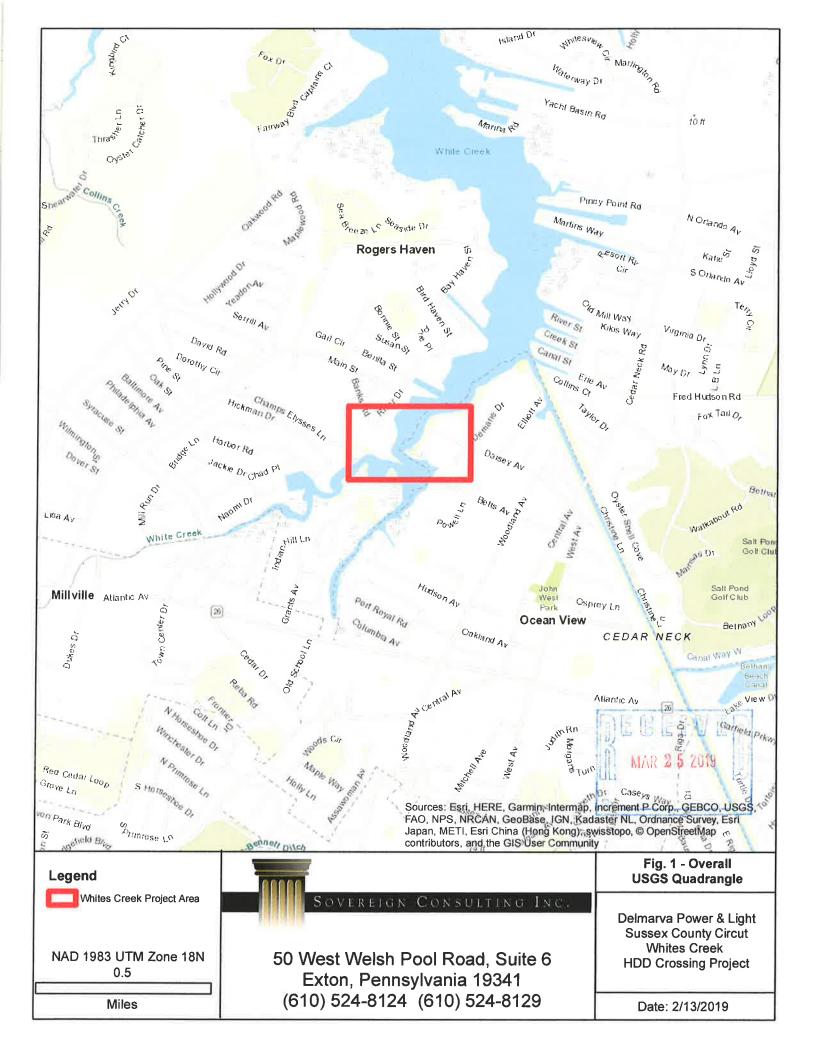
# 3. RESULTS

3.1 Summary of Documented Results

No stick nests were identified in the project area during the January 2019 survey. However, a nesting platform was identified south of the project area. No raptors were 5 2019 observed on the platform, or in the adjacent area.

# 3.2 Mapping

A map showing the location of the project corridor is included below.



#### 3.3 Photographs



Photo 1. Representative photo of project area





Photo 2. Representative photo of project area



Photo 3. Representative photo of project area

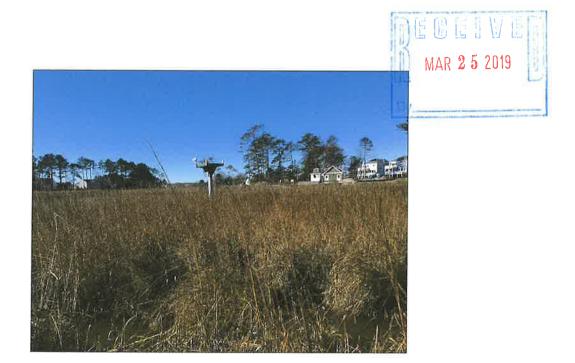


Photo 4. Representative photo of empty nest platform

#### 4. DISCUSSION

4.1 Seasonality of Survey

The visual raptor nest survey was conducted on January 22, 2019 which is within the established breeding season.

4.2 Survey Limitations

The survey was primarily limited to the immediate project area due to property access rights. No other survey limitations were present during the survey.

4.3 Opportunistic Observations

No raptor species were identified during the January 22, 2019 survey. Other nontarget avian species were observed during the January 2019 survey. The species identified were Great blue heron (*Ardea herodias*) and American crow (*Corvus brachyrhynchos*). In addition, turkey vultures (*Cathartes aura*) were observed during the survey.

4.4 Future Recommendations

If maintenance is not completed prior to the next breeding season (e.g. winter/spring 2020) an additional survey is recommended to ensure that new nests were not constructed within 1,000 feet of the limits of construction.

#### 5. REFERENCES



- Delmarva Power & Light. (2018, July 23). Request for Proposal Guy Grounding Maintenance Work.
- Federal Laws that Protect Bald Eagles. (2015, April 20). Retrieved May 2016, from U.S. Fish and Wildlife Service: http://www.fws.gov/midwest/eagle/protect/laws.html
- National Bald Eagle Management Guidelines. (2007, May). Retrieved May 2016, from U.S. Fish and Wildlife Service Ecological Services:

http://www.fws.gov/northeast/ecologicalservices/pdf/NationalBaldEagleManageme ntGuidelines.pdf

Pepco Holdings, I. (2016, December 14). *PHI Avian Nest Survey Report Standardization*. Pepco Holdings, Inc. (2015, November). PHI's Avian Protection Program.

Attachment 8 Consultation Response Letters





STATE OF DELAWARE DEPARTMENT OF NATURAL RESOURCES & ENVIRONMENTAL CONTROL DIVISION OF FISH & WILDLIFE 89 Kings Highway Dover, Delaware 19901

OFFICE OF THE DIRECTOR

February

Daniel C. Lucey Sovereign Consulting, Inc. 50 West Welsh Road, Suite 6 Exton, Pennsylvania 19341

Re: SCI 2019 DPL Whites Creek HDD

Dear Mr. Lucey,

Thank you for contacting the Species Conservation and Research Program for information on threatened and endangered species.

#### Summer Flounder:

Sampling conducted by our Division's fisheries staff revealed that Whites Creek supports a large number of juvenile migratory fish and is thus considered an important nursery area in the Inland Bays. Several species of particular commercial and recreational importance utilize the creek and could be impacted by this project. A primary species of concern for this project is Summer Flounder (*Paralichthys dentatus*) which utilize the creek as a nursery area. We recommend that any in-stream work **not** occur from March 1<sup>th</sup> to September 30<sup>th</sup> to allow time for young of the year to grow large enough to be less vulnerable to habitat-altering activities and then migrate out of the system.

#### American Eel:

Whites Creek is utilized by large numbers of American Eel (*Anguilla rostrate*) during migratory activities. We request that any in-stream work <u>not</u> take place from March 1st to June 30th to allow upstream passage of elvers (young eels).

#### **Horseshoe Crabs:**

Intertidal zones of the Inland Bays generally support spawning Horseshoe Crabs (*Limulidae polyphemus*) and without site-specific data and appropriate monitoring, <u>no</u> in-stream work should occur from April 15<sup>th</sup> to August 30<sup>th</sup> to minimize the impact to Horseshoe Crabs.

#### HDD:

Although the use of a directional drill often has less of an impact than other methods, there is still a potential for frac-outs to occur which could impact wetlands and water bodies within the project area. Therefore, we highly recommend that a frac-out contingency plan be in place prior to the start of

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Find us on Facebook http://www.facebook.com/DelawareFishWildlife

Phone: (302) 739-9910 Fax: (302) 739-6157 project activities. The contingency plan should include the following: 1) A provision to contain materials released, 2) A clean-up protocol, and 3) Arrangements for an experienced representative (drilling crew or consultant) to watch the site at all times so that the operation can be shut down immediately in the event a frac-out occurs. On-site staff should have access to the DNREC 24 hour hotline phone number (1-800-662-8802) to report any environmental release or fish kill. Immediate notification of any environmental release is imperative. Please also follow-up with a contact to Edna Stetzar, DFW Environmental Scientist (302-735-8654 or Edna.Stetzar@state.de.us).

Please be advised that this review letter only includes possible impacts to species that are listed as federally endangered or threatened under the US Endangered Species Act and state endangered species when appropriate. Due to a temporary staff shortage, our program is unable to conduct the more thorough review we typically complete. A review that includes more detailed information will be available shortly, and if the project is reviewed at a later date, more information and recommendations may be included. We apologize for this inconvenience and appreciate your patience.

Sincerely,

Her & Righty

Jeffrey Murphy Environmental Review Assistant Phone: 302-735-3600 6180 Hay Point Landing Rd Smyrna, Delaware 19977

(See invoice on next page)



#### **INVOICE - PAYMENT DUE**

It is our policy to charge a fee for this environmental review service. This letter constitutes an invoice for \$35.00 (\$35.00/hour for a minimum of one hour). Please make your check payable to "Delaware Division of Fish and Wildlife" and submit to:

DE Division of Fish and Wildlife 89 Kings Hwy. Dover, DE 19901 ATTN: Brandi Henderson

In order for us to properly process your payment, you must reference "SCI 2019 DPL Whites Creek HDD" on your check.

cc: Brandi Henderson, Fish and Wildlife Accounting Specialist; Code to 72900

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## United States Department of the Interior

FISH AND WILDLIFE SERVICE Chesapeake Bay Ecological Services Field Office 177 Admiral Cochrane Drive Annapolis, MD 21401-7307 Phone: (410) 573-4599 Fax: (410) 266-9127 <u>http://www.fws.gov/chesapeakebay/</u> http://www.fws.gov/chesapeakebay/endsppweb/ProjectReview/Index.html



In Reply Refer To: Consultation Code: 05E2CB00-2019-SLI-0826 Event Code: 05E2CB00-2019-E-01857 Project Name: Whites Creek HDD February 20, 2019

Subject: 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. This 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.*).

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
- Wetlands

## **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:

#### **Chesapeake Bay Ecological Services Field Office**

177 Admiral Cochrane Drive Annapolis, MD 21401-7307 (410) 573-4599



## **Project Summary**

Consultation Code:	05E2CB00-2019-SLI-0826
Event Code:	05E2CB00-2019-E-01857
Project Name:	Whites Creek HDD
Project Type:	TRANSMISSION LINE
Project Description:	Delmarva Power & Light Company, a wholly owned subsidiary of Exelon Corporation proposes to extend electric distribution feeder DE0531 beneath Whites Creek. The feeder will be installed via a sixteen (16) inch diameter horizontal directional drilling (HDD) bore approximately 800 feet under the creek with the top of the cable being a minimum of twenty (20) feet below the creek bottom at its lowest point. A bore rig will be setup on the Daisey Avenue side and conduit will be staged on the Peaceful Lane side to be pulled back. The purpose of the project is to increase customer reliability by creating a loop where there is currently a radial circuit.

#### **Project Location:**

Approximate location of the project can be viewed in Google Maps: <u>https://</u> www.google.com/maps/place/38.55403458150505N75.09575293000877W



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Counties: Sussex, DE

#### **Endangered Species Act Species**

There is a total of 0 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<sup>1</sup>, 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. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

#### **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 <u>National Wildlife Refuge</u> 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.



## Wetlands

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of</u> <u>Engineers District</u>.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

ESTUARINE AND MARINE DEEPWATER

<u>E1UBL</u>

ESTUARINE AND MARINE WETLAND

- <u>E2EM1N</u>
- <u>E2EM1P</u>

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Attachment 9 Best Management Practices

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# **B-7-5**

## VEGETATIVE STABILIZATION PERMANENT STABILIZATION



#### DEFINITION

To provide stabilization of exposed soil with permanent vegetation.

#### PURPOSE

To stabilize exposed soils with perennial long-lived grasses and legumes for periods greater than 6 months, and to prevent erosion on areas not covered with other materials, such as concrete, asphalt, or brick.



#### DESCRIPTION/CONDITIONS

Permanent stabilization is used to stabilize exposed soil for periods

greater than 6 months. Prior to seeding, topsoil is placed as noted in BMP B-8-2 (Vegetative Stabilization – Soil Preparation, Topsoiling, and Soil Amendments).

SEEDING: The selected seed or seed mixture should be suitable for the area where the work is being done and certified to ensure the best quality and seed purity. A soil test should be performed to ensure the proper amounts of amendments are applied. For areas that will receive low maintenance, the application of 150 pounds per acre of urea fertilizer (46-0-0) is recommended at the time of seeding, in addition to the recommended amounts of soil amendments. The area to be seeded should be tilled by disking or other approved method 2 to 4 inches deep. The area should be smoothed and leveled to prepare a proper seedbed, leaving the top 2 to 3 inches loose and friable. On slopes greater than 3:1 but less than 2:1, the slope should be traversed with tracked machinery, with the tracking parallel to the slope. Remove branches, sticks, stones larger than 1½ inches in diameter, and all other foreign or unwanted material so that the area can be easily maintained. The area should be seeded and mulched as outlined in Section B-8-3 (Vegetative Stabilization – Seeding and Mulching). When moisture deficient conditions exist, the newly seeded area should be watered, if at all possible. Watering should consist of applying 1 inch of water every 3 to 4 days until the grass is firmly established.

SOD: Sod provides immediate stabilization on areas with a slope of 2:1 or flatter. Sod should be certified and the certification labels should be available for inspection prior to the placement of the sod. Sod used



for permanent stabilization should be machine cut with a uniform thickness of <sup>3</sup>/<sub>4</sub> inch, not including the top growth and thatch. The thickness of the sod should not deviate by more than <sup>1</sup>/<sub>4</sub> inch, either way. Broken or torn sod pads should not be used. Standard sections of sod should be strong enough to support their own weight and retain their shape when held vertically. Sod should be harvested when the moisture content is not excessively wet or dry, and should be transported and placed within 36 hours of harvesting.

SOD INSTALLATION: Sod should not be laid on excessively dry or frozen soils. When the soil is excessively dry, or during periods of high temperatures, the soil should be lightly watered just prior to laying the sod. The first row of sod should be laid in a straight line with subsequent rows parallel to and tightly abutting the first row. Stagger the lateral joints of the sod sections to promote a more uniform growth and strength of the vegetation. Avoid tearing, stretching, and overlapping the sod. All joints should be tight to prevent voids that would allow the roots to dry. On slopes, sod should be laid with the long edges parallel to the contour. Immediately after placement, the sod must be rolled or tamped to ensure good contact with the soil and then stapled, pegged, or secured to prevent slippage. After the sod is installed, it should be thoroughly watered to ensure both the sod and soil below the sod are thoroughly wet. The process of laying the sod, including the final watering, should be completed within 8 hours.

In the absence of rainfall, newly placed sod should be watered daily with sufficient water to thoroughly wet the sod and moisten the soil 4 inches deep, for at least the first week. Watering sod during the heat of the day will prevent wilting. After the first week, the sod should be watered as needed to maintain adequate moisture of the sod and subsoil. Newly placed sod must be fully established and rooted prior to mowing. No more than 1/3 of the grass blade should be removed during the first mowing.

#### **ADVANTAGES**

Permanent stabilization protects the soil with a perennial vegetative cover for more than 6 months. Once established, and depending on the location, minimal maintenance is required to ensure the area remains stabilized. When used, sod provides immediate stabilization and prevents erosion of areas where it is critical to establish permanent stabilization quickly. This can be an environmental benefit and also a substantial public relations benefit.

#### LESSONS SHARED

Sod is likely the most expensive method to establish permanent stabilization. Establishing sod is labor intensive and requires a source of water. If a water source is not available at the site, water must be brought in as necessary for use.

#### MAINTANENCE

From the time the permanent stabilization is completed until the vegetation is firmly established, watering is recommended, as noted above. Areas that erode or fail to establish sufficient vegetation should be addressed immediately. Areas of erosion should filled, compacted, and restabilized. Areas without adequate vegetative cover, less than 95% but greater than 40%, should be overseeded at one-half the original rate of seed and fertilizer, with mulch applied and anchored in accordance with the approved plans. Areas of less than 40% coverage should be tilled and restabilized following the original procedure.

BMP Manual Version 1.0 July 11, 2014



# B-10

# HORIZONTAL DIRECTIONAL DRILLING

#### DEFINITION

A trenchless method of installing pipe, conduit, or cable underground.

#### PURPOSE

To place infrastructure under roadways, congested areas, streams, wetlands, and other sensitive environmental areas without the damage and disruption of open trenching.

#### **DESCRIPTION / CONDITIONS**

Horizontal Direction Drilling (HDD) is a method of installing infrastructure underground by boring a pilot hole and



then enlarging the hole to the desired diameter. After installing an entry and receiving pit, which also acts as a collection and containment area for drilling fluids, the boring machine drills a horizontal pathway for the length needed. HDD is used to install infrastructure across environmentally sensitive areas to avoid open trenching and the need to obtain environmental permits. HDD is also used in urban areas to avoid open trenching, which can be expensive and disruptive to traffic and the community.

#### **ADVANTAGES**

Using the HDD method to install underground infrastructure in environmentally sensitive areas can reduce or eliminate the need to obtain environmental permits. HDD eliminates the need for open trenches, which reduces the potential for erosion from exposed soil, the need to stabilize a trench after backfilling, and the problems associated with open trenches in urban areas, and can reduce the overall cost.

#### LESSONS LEARNED

HDD occasionally causes frac-out. Frac-out is the accidental release of drilling fluid through the ground, along the drilling pathway. Frac-out results when the pressure within the bore hole is greater than the surrounding soils can contain. This pressure differential can be due to sandy soil, soils containing a large



amount of gravel, or weak soils. Frac-outs must be stopped and the released materials contained, cleaned up, and properly disposed of at a PHI approved Treatment, Storage, and Disposal Facility (TSDF). The process to address a frac-out depends on where the frac-out occurs. When a frac-out occurs in or near sensitive resources, the following steps are recommended.

#### Wetland Location

- Suspend drilling operations if the release poses a threat to human health and safety or the environment.
- Temporarily suspend forward drilling and promptly notify the construction supervisor.
- In a state- or federal-regulated wetland, notify Environmental Planning (see contact information below) and the appropriate agencies of such event as soon as practicable.
- In consultation with Environmental Planning and regulatory agency where practicable, implement appropriate response and cleanup measures.
- Remove frac-out slurries in or adjacent to wetlands to the extent practical and restore the area to its previous condition. Efforts to contain and recover slurry in wetlands may result in further disturbance, and possibly offset the benefit gained in removing the slurry. Because it is difficult to predict the effects of a frac-out and the attempts to recover the slurry, Environmental Planning will evaluate frac-outs within wetlands on a case-by-case basis to determine the appropriate level of response to be implemented.
- If the amount of the frac-out slurry is too small to allow physical collection from the affected area, dilute it well with fresh water and allowed it to infiltrate and/or allow the fluid to dry and dissipate naturally.
- If the amount of the slurry exceeds that which can be contained with hand-placed barriers, install small collection sumps to contain the slurry. This step should only be taken with authorization from the regulatory agencies or as directed by Environmental Planning.
- Store the recovered slurry in a temporary holding tank or other suitable structure, dutside of the wetland and 100-foot buffer, for reuse or disposal at a PHI approved Treatment, Storage, and Disposal Facility (TSDF).
- Evaluate the current drill profile (e.g., drill pressures, pump volume rates, drilling mud consistency to identify means to prevent further frac-out events.
- Once the frac-out is stopped and contained, resume drilling.



• Suspend drilling operations if the release poses a threat to human health and safety or the environment.

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- Temporarily suspend forward drilling and promptly notify the construction supervisor. The construction supervisor will:
  - o Contact Environmental Planning.
  - o Monitor the extent of the frac-out slurry plume.
  - o In a state- or federal-protected stream, notify the appropriate regulatory agency as soon as practicable.
  - o Initiate containment measures and recovery of the frac-out slurry as appropriate. Containment is not always feasible for in-stream frac-outs. Assess whether hand-placed containment, recovery, or other measures, such as silt curtains and turbidity barriers, would be effective and beneficial.
  - Store the recovered slurry in a temporary holding tank or other suitable structure, outside of wetlands, sensitive areas, away from streams and outside of a 100-foot buffer, for reuse or disposal at a PHI approved Treatment, Storage, and Disposal Facility (TSDF).
  - o Evaluate the current drill profile (e.g., drill pressures, pump volume rates, drilling mud consistency to identify means to prevent further frac-out events.
  - o Once the frac-out is stopped and contained, resume drilling.

#### **Containment Materials**

At a minimum, the following containment, response, and clean-up equipment should be available at each HDD, especially when sensitive areas are nearby.

• Vacuum truck on 24-hour call (a vacuum truck may be on site to haul return mud back to the

- Sand bags
- Silt fence
- Plastic sheeting
- Turbidity barriers
- Shovels
- Pails
- Push brooms
- Squeegees
- · Pumps and sufficient hose
- Mud storage tanks

recirculating tank)



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#### **Clean Up and Restoration**

Environmental Planning, in cooperation with the regulatory agencies, will develop site-specific clean up measures following any frac-out. If restoration is needed, Environmental Planning will develop the restoration plan. The following cleanup measures should be followed at a minimum.

- Clean up drilling mud by hand using shovels, buckets, and soft bristled brooms.
- Complete cleanup without causing damage to existing vegetation.
- · Employ fresh water washes if deemed beneficial and feasible.
- Pump out containment structures and scrape the ground surface to bare topsoil without causing undue loss of topsoil or ancillary damage to existing and adjacent vegetation.
- Collect frac-out material in containers for temporary storage prior to removal from the site.

#### MAINTENANCE

Maintain the entry and receiving pits in a condition such that the drilling fluid does not escape from the pits. Sediment perimeter controls should be installed around the entry and receiving pits, as needed, and inspected at least weekly and after each rain event. Sediment controls should be maintained, repaired, or replaced as needed.

#### CONTACTS

Environmental Planning Cristina Frank – Primary Lead Environmental Scientist Environmental Planning (302) 454-4179 (p) (302) 540-9905 (c) Cristina.Frank@pepcoholdings.com

Mailing Address MS79N64 P.O. Box 9239 Newark, DE 19714-9239 Dana Small – Secondary Manager Environmental Planning (302) 283-6072 (p) (302) 463-0389 (c) Dana.Small@pepcoholdings.com

Other Deliveries MS79NC64 401 Eagle Run Road Newark, DE 19702



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# E-1

## FILTER LOG PREFERRED BMP FOR FILTERING

#### DEFINITION

Temporary, mesh, tubular casing filled with a coarse, compost filter medium. The tubes are biodegradable or photodegradable and are filled using a pneumatic blower.

#### PURPOSE

To intercept sheet flow, retain sediment, and filter runoff.

#### DESCRIPTION/CONDITIONS

Filter logs are an alternative to silt fencing and can be used in hard-toreach areas, on frozen ground, on pavement, and near tree roots. Heavy vegetation should be removed, by cutting off near the ground, prior to installing filter logs.



Filter logs must conform to the design criteria listed in the table below.

Filter Log Design Constraints				
Average Slope	Log Diameter 8 to 15 inches	Log Diameter > 15 to 25 inches		
Steepness	Maximum Contributing Slope Length (ft)			
Flatter than 50:1 (<2%)	125	250		
50:1 to 10:1 (2-10 %)	65	125		
<10:1 to 5:1 (>10-20%)	50	100		
<5:1 to 2:1 (>20-50%)	N/A	50		

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Filter logs should be placed parallel to contour, with both ends turned upgrade to prevent bypass. Filter logs can be used only for sheet flow. The filter medium must be compost in accordance with the table below or other approved biodegradable materials. Filter logs must be staked at least every 4 feet or trenched a minimum of 4 inches into the ground and staked at least every 8 feet. Upon stabilization of the tributary area, filter logs may be left in place and vegetated or removed. In the latter case, the mesh should be cut open and the mulch spread as a soil supplement. In either case, the stakes should be removed.

Compost Material		
Parameters	Acceptable Range*	
рН	5.0 - 8.5	
Moisture Content	30% - 60%, wet weight basis	
Organic Matter Content	25% - 65%, dry weight basis	
Particle Size	% passing a selected mesh size, dry weight basis 3 in (75 mm), 100% passing 1 in (25 mm), 90 – 100% passing 0.75 in (19 mm), 70 – 100% passing 0.25 in (6.4 mm), 30 – 60% passing 0.04 in (1 mm), 30% min. passing	
Physical Contaminants (Manmade Inerts)	<1% dry weight basis	

\* Adapted from AASHTO Standards Specs for Compost Filter Socks and EPA Example Compost Filter Parameters MAR 2 5 2019

#### **ADVANTAGES**

Filter logs are highly efficient at removing sediment. They are flexible and can be filled in place or, in some cases, filled and moved into position. They are especially useful on steep slopes and rocky soils. Filter logs can be placed without disturbing the soil (trenching), thereby reducing the amount of soil disturbance which reduces the potential for erosion. A much smaller amount of material (mesh tubes) need be disposed of at a PHI approved Treatment, Storage, and Disposal Facility (TSDF) at the end of the project, if the compost is left onsite. The compost can be spread onsite as a soil amendment or mulch.

#### LESSONS SHARED

Biodegradable filter logs have a functional life of 6 months, and photodegradable filter logs have a functional life of 1 year. Filter logs used in projects with disturbances anticipated to last longer than the life of the filter log should be replaced periodically, or another type of filtering should be used. Filter logs are labor intensive to construct and require routine inspection to ensure functionality. Mesh tubes which are

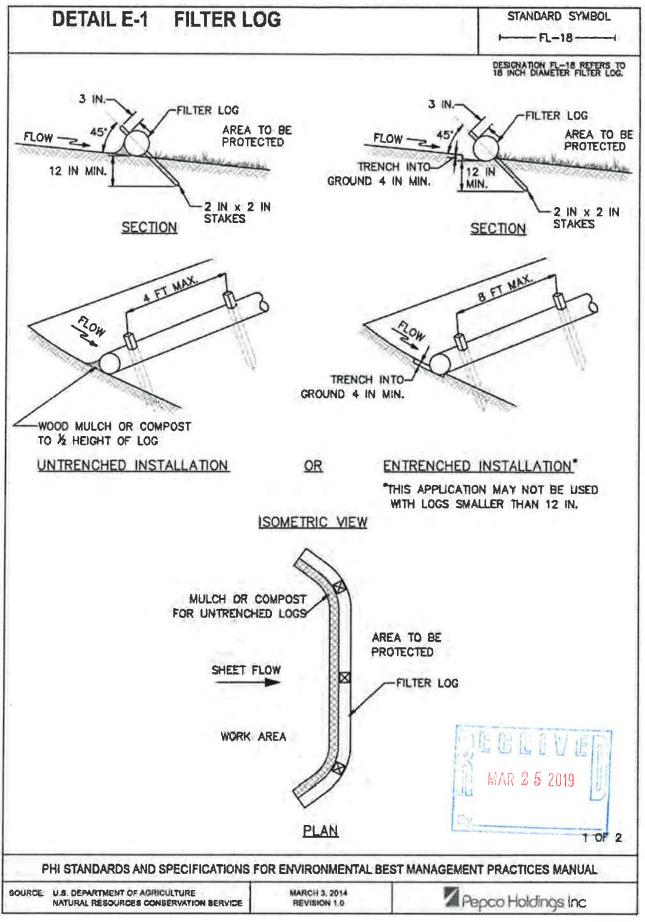


not biodegradable are to be removed and properly disposed of at a PHI approved Treatment, Storage, and Disposal Facility (TSDF).

#### MAINTENANCE

Sediment and debris must be removed and mulch must be replaced when sediment has accumulated to one-half the exposed height of the log. Filter logs that are clogged or torn must be replaced and reinstalled if undermined or dislodged. In permanent applications of filter logs, vegetation must be established and maintained so the requirements for Adequate Vegetative Establishment are met in accordance with the approved plan.

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Бу	_



DETAIL E-1 FILTER LOG	STANDARD SYMBOL
	DESIGNATION FL-18 REFERS T 18 INCH DIAMETER FILTER LOG
CONSTRUCTION SPECIFICATIONS	
1. PRIOR TO INSTALLATION, CLEAR ALL OBSTRUCTIONS INCLUDING RO GREATER THAN ONE INCH THAT MAY INTERFERE WITH PROPER FUN	OCKS, CLODS, AND DEBRIS
<ol> <li>FILL LOG NETTING UNIFORMLY WITH COMPOST (IN ACCORDANCE W TABLE), OR OTHER APPROVED BIODEGRADABLE MATERIAL TO DESI DO NOT DEFORM.</li> </ol>	ITH THE COMPOST MATERIAL RED LENGTH SUCH THAT LOGS
<ol> <li>INSTALL FILTER LOGS PERPENDICULAR TO THE FLOW DIRECTION A THE BEGINNING AND END OF THE INSTALLATION POINTING SLIGHTL SHAPE AT EACH END TO PREVENT BYPASS.</li> </ol>	ND PARALLEL TO CONTOUR WIT Y UP THE SLOPE CREATING A "J"
<ol> <li>FOR UNTRENCHED INSTALLATION, BLOW OR HAND PLACE MULCH O THE SLOPE ALONG LOG.</li> </ol>	R COMPOST ON UPHILL SIDE OF
5. STAKE FILTER LOG EVERY 4 FEET OR CLOSER ALONG ENTIRE LENG INTO GROUND A MINIMUM OF 4 INCHES AND STAKE LOG EVERY 8 FE	TH OF LOG O <b>R TRENCH LOG</b> ET OR CLOSE <b>R</b> .
6. USE STAKES WITH A MINIMUM NOMINAL CROSS SECTION OF 2X2 INC TO ATTAIN A MINIMUM OF 12 INCHES INTO THE GROUND AND 3 INCH	CH AND OF SUFFICIENT LENGTH ES PROTRUDING ABOVE LOG.
7. WHEN MORE THAN ONE LOG IS NEEDED, OVERLAP ENDS 12 INCHES	MINIMUM AND STAKE.
<ol> <li>REMOVE SEDIMENT WHEN IT HAS ACCUMULATED TO A DEPTH OF ½ LOG AND REPLACE MULCH. REPLACE FILTER LOG IF TORN. REINST UNDERMINING OF DISLODGING OCCURS. REPLACE CLOGGED FILTE APPLICATIONS, ESTABLISH AND CONTINUOUSLY MEET REQUIREMENT ESTABLISHMENT IN ACCORDANCE WITH THE APPROVED PLAN.</li> </ol>	ALL FILTER LOG IF
	)ECLEVEN
	MAR 2 5 2019
	2 OF 2
PHI STANDARDS AND SPECIFICATIONS FOR ENVIRONMENTAL BEST MAN	AGEMENT PRACTICES MANUAL
OURCE: U.S. DEPARTMENT OF AGRICULTURE MARCH 3, 2014 NATURAL RESOURCES CONSERVATION SERVICE REVISION 1.0	Pepco Holdings Inc

Attachment 6 Wetland Delineation Report





An Exelon Company

# WETLAND DELINEATION REPORT

Whites Creek HDD Crossing Project Sussex County, Delaware

February 2019

Prepared for: Delmarva Power & Light Company PO Box 9239 Newark, DE 19714

Prepared by: Sovereign Consulting Inc. 50 West Welsh Pool Road, Suite 6 Exton, PA 19341

MAR 2 5 2019



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#### List of Attachments

Attachment 1 - Wetland Determination Data Logs

Attachment 2 – Wetland Photographs

Attachment 3 – Wetland Delineation Maps

MAR 2 5 2019

#### **1. INTRODUCTION**

Sovereign Consulting Inc. (Sovereign) prepared this Wetland Delineation Report on behalf of Delmarva Power & Light Company (DPL), a wholly owned subsidiary of Exelon Corporation. This report summarizes activities conducted to identify whether wetlands, wetland transition areas/buffers, or waterways occur within the project area associated with the Whites Creek HDD Crossing project.

#### 2. SITE INFORMATION AND BACKGROUND

2.1 Project Description

The project area is approximately 0.2 miles in length and is located in Sussex County, Delaware. The right-of-way (ROW) includes a mixture of residential properties, cleared and maintained areas, and tidal wetlands.

The project includes installation of cable under Whites Creek via HDD. Exact project details and impact areas were not known at the time of the survey and preparation of this report.

#### 2.2 Onsite Soils

The soils onsite vary throughout the project area depending on the setting (i.e, tidal wetlands and uplands). According to the US Department of Agriculture, Natural Resources Conservation Service (NRCS) Web Soil Survey, the mapped soil units found within the study area include:

Symbol	Map Unit Name		Hydric
Br	Broadkill mucky peat, very frequently flooded, tidal		Yes
KsA	Klej loamy sand, 0-2% slopes		Yes
PrA	Pepperbox-Rockawalkin complex, 0-2% slopes	F	No
RuB	Runclint loamy sand, 2-5% slopes	1 - 1 - 1	Yes
WHe1	Herring Creek mucky silt loam, 0-1 meter water depth	They are	Yes
		MA	AR 2 5 2019

#### **3. FIELD METHODOLOGY**

A review of the United States Fish and Wildlife Service (USFWS) National Wetland Inventory (NWI) maps identified wetlands within the vicinity of the proposed project area. To confirm the presence or absence of wetlands, wetland buffers and waterways, a wetland delineation was conducted on January 22, 2019 within the project area. The delineation included routine assessments of vegetation, hydrology, and soil conditions. Wetland delineation procedures followed the "routine method" outlined in the U.S. Army Corps of Engineers 1987 Wetlands Delineation Manual, as modified by the Corps Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region Version 2.0 (November 2010). The applicable wetland determination data forms used during the wetland delineation are provided in Attachment 1; photographs of the project and wetland areas are presented in Attachment 2.

#### 4. **RESULTS**

Sovereign delineated one wetland within the project area.

The wetland, identified as Wetland A, is described in the following section. Hydric soils and hydrophytic vegetation were consistent throughout the project limits. Therefore, representative wetland data logs characterizing the wetland and site photographs are provided in Attachment 1 and Attachment 2, respectively. Figures depicting the delineated tidal wetland boundaries are included as Attachment 3.

4.1 Wetland A

Wetland A is a complex of estuarine emergent (E2EM) and estuarine unconsolidated bottom (E1UBL) wetlands associated with Whites Creek. The creek spans the majority of the project area. Vegetation was limited throughout the wetland and includes smooth cordgrass (*Spartina alterniflora*), and high-tide bush (*Iva frutescens*). The soil is a dark brown sandy loam with depleted matrix (10YR 4/1) and meets the indicator status of F3 (depleted matrix). Signs of hydrology include surface water, geomorphic position, and FAC-Neutral test.

#### 5. FINDINGS

Wetland determination is based on co-occurrence of wetland hydrology, hydric soils and hydrophytic vegetation indicators. Using a detailed ground-level assessment approach, one (1) wetland area was identified throughout the project area.

#### 6. REFERENCES

Environmental Laboratory. 1987. "Corps of Engineers Wetlands Delineation Manual,<sup>5</sup> <sup>2019</sup> Technical Report Y-87-I, US Army Engineer Waterways Experiment Station, Vicksburg, Miss.

Munsell Soil Color Charts: With Genuine Munsell Color Chips. Grand Rapids, MI: Munsell Color, 2009. Print.

NRCS (Natural Resources Conservation Service). "Web Soil Survey," n.d. Web. http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx

Newcomb, Lawrence. Newcomb's Wildflower Guide: An Ingenious New Key System for Quick, Positive Field Identification of the Wildflowers, Flowering Shrubs and Vines of Northeastern and North Central North America. Boston: Little, Brown, 1977. Print. U.S. Army Corps of Engineers. 2010. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region (Version 2.0), ed. J. S. Wakeley, R. W. Lichvar, and C. V. Noble. ERDC/EL TR-10-20. Vicksburg, MS: U.S. Army Engineer Research and Development Center.



Attachment 1 Wetland Determination Data Forms



## WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Whites Creek HDD Crossing	City/County: Sussex County Sampling Date: 1/22/19
Applicant/Owner: Delmarva Power & Light Company	State: DE Sampling Point: Wetland A
Investigator(s): B. Dietz, E. Williams	Section, Township, Range:
	Local relief (concave, convex, none): Slope (%):
	Long: Datum: NAD83
Soil Map Unit Name: RuB - Runclint loamy sand, 2-5% slopes	NWI classification: E2EM1N / E1UBL
Are climatic / hydrologic conditions on the site typical for this time of yo	ear? Yes 🗸 No (If no, explain in Remarks.)
	/ disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation Soil, or Hydrology naturally pr	
	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?       Yes /       No         Hydric Soil Present?       Yes /       No         Wetland Hydrology Present?       Yes /       No         Remarks:       Wetland A is associated with Whites Creek, w	within a Wetland? Yes <u>Ves</u> No <u></u>
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 (B1         High Water Table (A2)       Marl Deposits (B1         Saturation (A3)       Hydrogen Sulfide (Oxidized Rhizosphere)         Water Marks (B1)       Oxidized Rhizosphere)         Sediment Deposits (B2)       Presence of Reduct	3)       Surface Soil Cracks (B6)         3)       Sparsely Vegetated Concave Surface (B8)         5) (LRR U)       Drainage Patterns (B10)         Odor (C1)       Moss Trim Lines (B16)         beres along Living Roots (C3)       Dry-Season Water Table (C2)         ced Iron (C4)       Crayfish Burrows (C8)         stion in Tilled Soils (C6)       Saturation Visible on Aerial Imagery (C9)         e (C7)       V
Surface Water Present? Yes _ ✓ No Depth (inches	): <u>1-8"</u>
Water Table Present? Yes <u>Ves</u> No Depth (inches	
Saturation Present? Yes <u>✓</u> No <u>Depth</u> (inches (includes capillary fringe)	): _0" Wetland Hydrology Present? Yes _✓ No
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspections), if available:
Remarks:	
Wetland A is associated with Whites Creek, w water, geomorphic position and FAC-Neutral to	hich spans the majority of the project area. Surface est were observed. MAR 2 5 2019

## VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: <u>Wetland A</u>

T. 01.4 (D) (1.1			t Indicator	Dominance Te	est worksheet:	
Tree Stratum (Plot size:)			? <u>Status</u>	Number of Dor		
1				I hat Are OBL,	FACW, or FAC: 2	(A)
2 3				Total Number of	of Dominant	(5)
4			•	Species Across	s All Strata: 2	(B)
5				Percent of Dom		( ) (m)
6				That Are OBL,	FACW, or FAC: 100	(A/B)
7				Prevalence Inc	dex worksheet:	
8				Total % Co	over of: Multiply by:	_
		= Total Cover			x 1 =	
		20% of total cover:			x 2 =	
Sapling/Shrub Stratum (Plot size:)					x 3 =	
1. Iva frutescens	20%	Yes	FACW		x 4 =	
2					x 5 =	
3				Column Totals:	(A)	_ (B)
4				Prevalenc	ce Index = B/A =	
5					egetation Indicators:	
6					Fest for Hydrophytic Vegetation	
7					ance Test is >50%	
8					ence Index is ≤3.0 <sup>1</sup>	
	= Total Cover		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
50% of total cover: 20% of total cover:						,
Herb Stratum (Plot size:)				<sup>1</sup> Indicators of h	ydric soil and wetland hydrology	must
1Spartina alterniflora	80%	Yes	OBL		ess disturbed or problematic.	
2						
3				Tree – Woody	plants, excluding vines, 3 in. (7.6	cm) or
4				more in diameter	er at breast height (DBH), regard	less of
5				height.		
6					- Woody plants, excluding vines	
7				than 3 in. DBH	and greater than 3.28 ft (1 m) tal	I.
8				Herb – All herbaceous (non-woody) plants, regardless		
9				of size, and wo	ody plants less than 3.28 ft tall.	
10,				Woody vine –	All woody vines greater than 3.28	3 ft in
11				height.		
12						
2004 44 4	= Total Cover					
50% of total cover:	20% of	total covei				
Woody Vine Stratum (Plot size:)						
2					回居時度也和追	P. C.
3					WE GET OF	
4					MAR 2 5 2019	51
o				Hydrophytic Vegetation		BA.
	= Total Cover		Present?	Yes No		
50% of total cover:					By	_
Remarks: (If observed, list morphological adaptations below). The plot was dominated by smooth cordgrass and high-tide bush.						

### SOIL

Depth	scription: (Describe Matrix	to the depti		ox Feature		or comm	i the absence	of indicators.)
(inches) 0-6"	Color (moist) 10YR 3/2	%	Color (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>	Texture sandy loam	Remarks
6-18"	10YR 4/1				D	M	sandy loam	saturated
Hydric Soil Histic E Black H Hydrog Stratifie Organic Stratifie Organic Stratifie Organic Coganic Stratifie Organic Stratifie Organic Stratifie Coganic Stratifie Sandy f Sandy f Strippec Dark St Restrictive	Concentration, D=Dep Indicators: (Application) (A1) Epipedon (A2) distic (A3) en Sulfide (A4) ed Layers (A5) bodies (A6) (LRR P, ucky Mineral (A7) (LR resence (A8) (LRR U) uck (A9) (LRR P, T) ed Below Dark Surface tark Surface (A12) Prairie Redox (A16) (N Mucky Mineral (S1) (L Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, S) Layer (if observed):	T, U) R P, T, U) ) 9 (A11) ILRA 150A) RR O, S)	RRs, unless othe         Polyvalue Be         Thin Dark St         Loamy Muck         Loamy Muck         Depleted Ma         Redox Dark         Depleted Ma         Redox Dark         Depleted Da         Redox Depreted Oc         Iron-Mangan         Umbric Surfa         Delta Ochric         Reduced Ver         Piedmont Flo	rwise not alow Surfa urface (S9 y Mineral ed Matrix ( ttrix (F3) Surface (F rk Surface essions (F .RR U) hric (F11) ese Mass ace (F13) ( (F17) (ML rtic (F18) ( bodplain S	ed.) ce (S8) (L ) (LRR S, (F1) (LRR F2) 6) (F7) 8) (MLRA 1 es (F12) ( (LRR P, T .RA 151) MLRA 15 oils (F19)	RR S, T, L T, U) CO) LRR O, P, , U) 0A, 150B) (MLRA 14	Indicators I) I cm M 2 cm M Reduce Piedm Anoma (MLI Red P: Very S Other T) I and content U I and content I and con	PL=Pore Lining, M=Matrix. for Problematic Hydric Solls <sup>3</sup> : Muck (A9) (LRR O) Muck (A10) (LRR S) ted Vertic (F18) (outside MLRA 150A,B) ont Floodplain Soils (F19) (LRR P, S, T) alous Bright Loamy Soils (F20) RA 153B) arent Material (TF2) thallow Dark Surface (TF12) (Explain in Remarks) teators of hydrophytic vegetation and land hydrology must be present, ess disturbed or problematic. , 153D)
Type: Depth (in							Hydric Soil	Present? Yes No
	he observed s oil series, whic					or Suss		

# WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Whites Creek HDD Crossing	City/County: Sus:	sex County		Sampling Date: 1/22/19
Applicant/Owner: Delmarva Power & Light Company		Stat	te: DE	Sampling Date: <u>1/22/19</u> Sampling Point: Upland A
Investigator(s): B. Dietz, E. Williams				
Landform (hillslope, terrace, etc.):				
Subregion (LRR or MLRA): LRRT Lat:				Datum: NAD83
Soil Map Unit Name: RuB - Runclint loamy sand, 2-5% slopes				ation:
Are climatic / hydrologic conditions on the site typical for this time of y	ear? Yes 🖌 I			
Are Vegetation Soil, or Hydrology significantly				resent? Yes No
Are Vegetation Soil, or Hydrology naturally pr		(If needed, expla		
SUMMARY OF FINDINGS – Attach site map showing				
Hydrophytic Vegetation Present?       Yes       No       ✓         Hydric Soil Present?       Yes       No       ✓         Wetland Hydrology Present?       Yes       No       ✓         Remarks:       Upland A is located adjacent to Wetland A.	In the Care	pled Area		No∕
HYDROLOGY				
Wetland Hydrology Indicators:		Sec	condary Indicat	tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		□	Surface Soil (	
Surface Water (A1)	3)		Sparsely Veg	etated Concave Surface (B8)
High Water Table (A2)		님	Drainage Pat	. ,
Saturation (A3)		님	Moss Trim Lir	, ,
Water Marks (B1) Oxidized Rhizosph Sediment Deposits (B2) Presence of Reduc	neres along Living R	coots (C3)	Dry-Season V Crayfish Burr	Vater Table (C2)
	ction in Tilled Soils (	C6) 🗖		sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)			Geomorphic I	• , ( ,
Iron Deposits (B5)			Shallow Aquif	
Inundation Visible on Aerial Imagery (B7)			FAC-Neutral	Test (D5)
Water-Stained Leaves (B9)			Sphagnum m	oss (D8) <b>(LRR T, U)</b>
Field Observations:				
Surface Water Present? Yes No / Depth (inches	13			
Water Table Present?     Yes No Depth (inches Saturation Present?       Yes No Depth (inches Saturation Present?				
(includes capillary fringe)				t? Yes No∕
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspect	tions), if availabl	e:	
Remarks:				
No wetland hydrology indicators observed.				
			MAR By	2 5 2019

## VEGETATION (Four Strata) – Use scientific names of plants.

Sampling	Point <sup>.</sup>	Up	land	А

		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?	Status	Number of Dominant Species
1. Pinus sp.	10%	No		That Are OBL, FACW, or FAC (A)
2				Total Number of Deminent
3				Total Number of Dominant Species Across All Strata:(B)
4				
5				Percent of Dominant Species
				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7			<u> </u>	Total % Cover of:Multiply by:
8				
		= Total Cov	ver	OBL species x 1 =
50% of total cover:	20% of	total cover		FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)				FAC species x 3 =
1. Ilex opaca	10%	No	FAC	FACU species x 4 =
				UPL species x 5 =
2				Column Totals: (A) (B)
3				
4				Prevalence Index = B/A =
5			. <u> </u>	Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				$\square$ 2 - Dominance Test is >50%
8				
				3 - Prevalence Index is ≤3.0 <sup>1</sup>
				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:	20% of	total cover	·	
Herb Stratum (Plot size:)				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Poa pratensis	80%	Yes	FACU	be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				
4				<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
				height.
5				
6				
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9	·			of size, and woody plants less than 3.28 ft tall.
10				
11				Woody vine – All woody vines greater than 3.28 ft in height.
				linght
12	s. <u> </u>			é
		= Total Cov		
50% of total cover:	20% of	total cover:		THE PARTY OF A AND AND AND AND AND AND AND AND AND A
Woody Vine Stratum (Plot size:)				时间的情况也因此问
1				NY THE REAL
2				MAR 2 5 2019
3				INIPALY & COTO
4				Loci bell
5		2		BM
0				Hydrophytic
		= Total Cov		Vegetation Present? Yes No _√_
50% of total cover:		total cover:	·	
Remarks: (If observed, list morphological adaptations belo	ow).			
The plot was dominated by maintained	lawn gra	ass.		

SOIL

	cription: (Describe	to the depth				or confirn	n the absence	of indicate	ors.)	
Depth (inches)	Matrix Color (moist)	%		x Features		1002	Touture		Demost	
0-10"	10YR 3/2		Color (moist)	%	_Type <sup>1</sup>	_Loc <sup>2</sup>	Texture sandy loam	dry, com	Remarks nacted	
							Sandy IDans	dry, com	μαυιου	
		·								
<sup>1</sup> Type: C=C	oncentration, D=Depl	etion RM=R	educed Matrix M	S=Masked	Sand Gr	ains	<sup>2</sup> Location:	PI =Pore I	ining, M=Matr	ix
	Indicators: (Applica								matic Hydric	
Histosol	(A1)		Polyvalue Be	elow Surfa	ce (S8) (L	.RR S, T, I	_	Muck (A9) <b>(L</b>	-	
and a second	pipedon (A2)		Thin Dark St	urface (S9)	(LRR S,	T, U)		Muck (A10)		
	istic (A3)		Loamy Muck			t O)				MLRA 150A,B)
The second se	en Sulfide (A4)		Loamy Gleye	•	F2)					) (LRR P, S, T)
- Browner -	d Layers (A5) Bodies (A6) <b>(LRR P,</b>	т. ())	Redox Dark	• •	6)			alous Bright RA 153B)	Loamy Soils	(F20)
	ucky Mineral (A7) (LR		Depleted Da	•			· · ·	arent Mater	ial (TF2)	
Muck Pi	resence (A8) (LRR U)	)	Redox Depre				Uery S	hallow Dark	surface (TF	12)
and the second se	uck (A9) (LRR P, T)		Marl (F10) (I	•			U Other	(Explain in F	Remarks)	
	d Below Dark Surface ark Surface (A12)	e (A11)	Depleted Oc Iron-Mangar		•		T) <sup>3</sup> localia	atora of hur	Irophytic vege	dation and
	rairie Redox (A16) (M	ILRA 150A)	Umbric Surfa				-		ogy must be p	
- Internet	/lucky Mineral (S1) (L	•	Delta Ochric			, -,		-	d or problema	
🔲 🔲 Sandy G	Bleyed Matrix (S4)		Reduced Ve	rtic (F18) (	MLRA 15	0A, 150B)				
70000	Redox (S5)		Piedmont Flo							
	Matrix (S6)	т по	Anomalous I	Bright Loan	ny Soils (I	F20) <b>(MLR</b>	A 149A, 153C	, 153D)		
	rface (S7) (LRR P, S, Layer (if observed):	, 1, 0)					1			
Type:										
Depth (in	ches):						Hvdric Soil	Present?	Yes	No 🖌
Remarks:										
T.	he observed s									
Sa	and soil series	, which is	s listed on th	ne hydr	ic soils	s list for	Sussex (	County,	Delaware	<del>)</del> .
									们目	CEIV
									12-	9444
									M.	AR 2 5 2019
									LLL	
									Des	
									By	

Attachment 2 Photographic Log





Photo 1. Representative photo of Wetland A (Whites Creek)



Photo 2. Representative photo of Wetland A (Whites Creek)



Photo 3. Representative photo of Wetland A (Whites Creek)

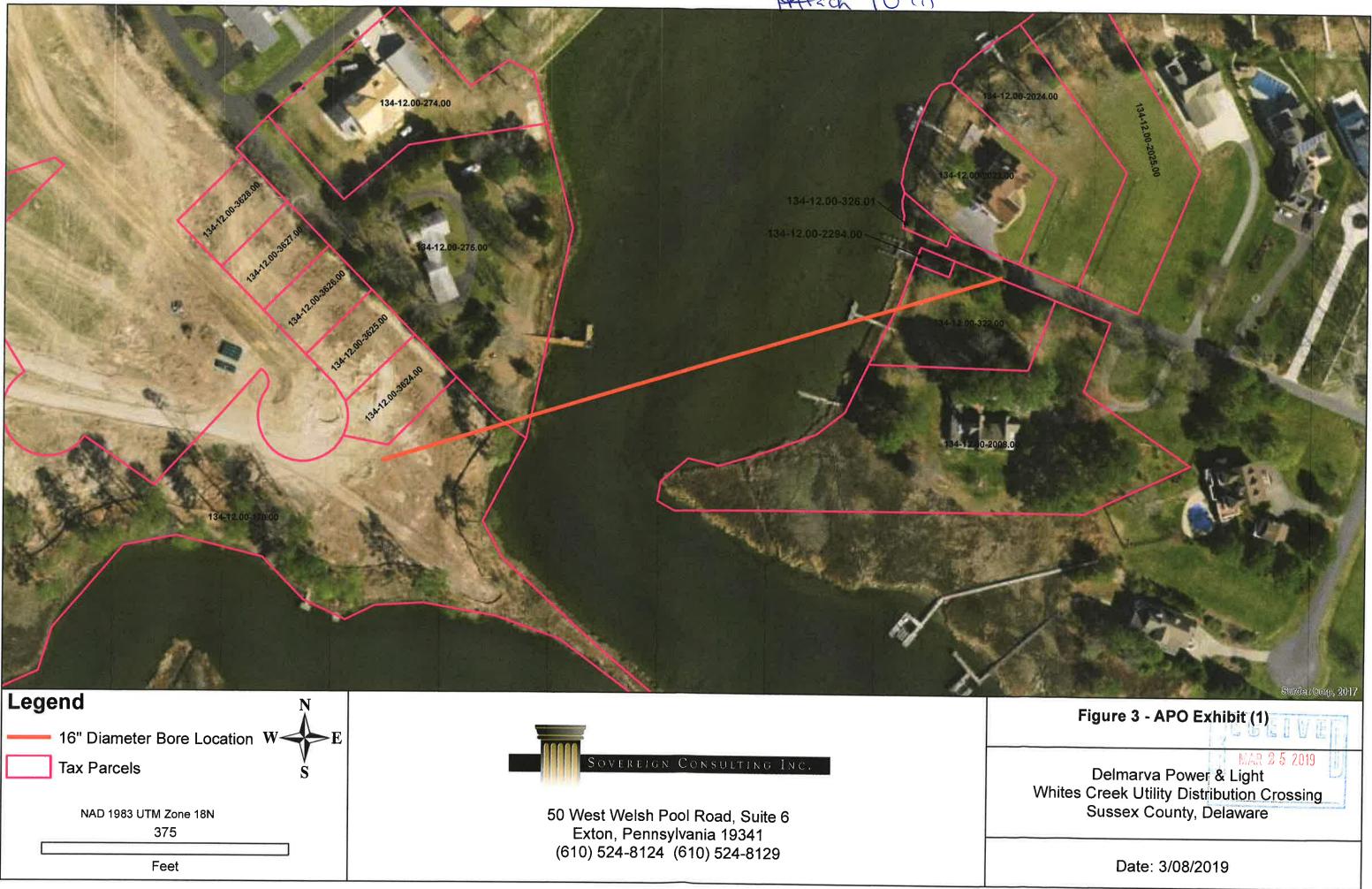
DECLIVE	T
MAR 2 5 2019	
Ву	

Attachment 10 Adjacent and Riparian Property Owners



\* 10

# Arttach 10 (1)



Aftach 10 (2)



Date: 3/08/2019

Iton         Parcel ID         Owner Name         Owner Name         Second	Earcl D         Dumer Name         Address         City           134-120-201000         The Beach LLC         Status Name         Organ View         Organ View           134-120-201000         The Beach LLC         Status Name         Organ View         Organ View           134-120-201000         Perforbage Fam B         Status Name         Organ View         Organ View           134-120-20100         Perforbage Fam B         Status Name         Organ View         Organ View           134-120-20100         Perforbage Fam B         Status Name         Organ View         Organ View           134-120-20100         Perforbage Fam B         Status Name         Organ View         Organ View           134-120-20100         Perforbage Fam B         Status Name         Organ View         Organ View           134-120-20100         Perforbage Fam B         Status Name         Organ View         Organ View           134-120-20100         Perforbage Fam B         Status Name         Organ View         Organ View           134-120-20100         Brank And Fam B         Status Name         Organ View         Organ View           134-120-201010         Reserver Pitalek Theorithe Robert         Status Name         Organ View         Organ View           134-120-2010100 <t< th=""><th>DE</th><th>Bethany Beach</th><th>PO Box 181</th><th>DeMarie Family LLC</th><th>134-12.00-2051.00</th><th>APC</th></t<>	DE	Bethany Beach	PO Box 181	DeMarie Family LLC	134-12.00-2051.00	APC
Barelin         Owner Name         Address           1441200-200300         Tac Bearon LLC         So Dialay And         So Dialay And         So Dialay And           1441200-200300         Void Gorden ES / Fanricis K         So Dialay And         So Dialay And <td< td=""><td>Dancel ID         Owner Name         Address           134-1200-2003.00         Trais Bearen LLC         Owner Name         Status S</td><td></td><td>Ocean View</td><td>39 Daisey Ave</td><td>Brendel Eugene</td><td>134-12.00-2050.00</td><td>RPO</td></td<>	Dancel ID         Owner Name         Address           134-1200-2003.00         Trais Bearen LLC         Owner Name         Status S		Ocean View	39 Daisey Ave	Brendel Eugene	134-12.00-2050.00	RPO
Parcel ID         Connert Name         MMR         & Address           134-1200-2025.00         Nood Garchon 55: R-Paricia K         SD Bisky Ave         Conner Name           134-1200-2025.00         Nood Garchon 55: R-Paricia K         SD Bisky Ave         Conner Name           134-1200-2025.00         Nood Garchon 55: R-Paricia K         SD Bisky Ave         Conner Name           134-1200-2025.00         Nood Garchon 55: R-Paricia K         SD Bisky Ave         Conner Name           134-1200-2025.00         Foresteld Commons Association of Owners Iva         SD Bisky Ave         Conner Name           134-1200-2025.00         Foresteld Commons Association of Owners Iva         SD Bisky Ave         Conner Name           134-1200-2025.00         Foresteld Commons Association of Owners Iva         SD Bisky Ave         Conner Name           134-1200-2025.00         Foresteld Commons Association of Name Name         SD Bisky Ave         Conner Name           134-1200-2025.00         Foresteld Commons Association of Str Foresteld Iva         SD Bisky Ave         Conner Name           134-1200-2025.00         Foresteld Commons Association of Str Forestell         SD Bisky Ave         Conner Name           134-1200-2025.00         Forestell Commons Association Arrows         SD Bisky Ave         Conner Name           134-1200-2025.00         Monder Name R	Image: Pare ID         Owner Name         Address           1341.200-2005.00         Node Gordon E S & Paritia K         S1 Diage Ave         S1 Diage Ave         Diage S1           1341.200-2005.00         Node Gordon E S & Paritia K         S1 Diage Ave         S1 Diage Ave         Diage S1           1341.200-2005.00         Diale Sue In Trustee         S1 Diage Ave         S1 Diage Ave         Diage S1           1341.200-2005.00         Diale Sue In Trustee         S1 Diage Ave         S1 Diage Ave         Diage S1           1341.200-2005.00         Diale Sue In Trustee         S1 Diage Ave         S1 Diage Ave         Diage S1           1341.200-2005.00         Foreside Common S4 Solucitation of Owners Ire         S100 Stants F1         Diage Ave         Diage S1           1341.200-2005.00         Foreside Common S4 Solucitation of Owners Ire         S100 Stants F1         Diage Ave         Diage Ave         Diage S1           1341.200-2005.00         Foreside Common S4 Solucitation of Owners Ire         S100 Stants F1         Diage Ave         Dia		Ocean View	35 Daisey Ave	Scarangella Anthony	134-12.00-2049.00	RPC
Darcel ID         Owner Name         Poil         Address         City           134-120-00300         Vinde Offen Ex & Frincis K         SD Diagr Ave         City         City           134-120-00300         Vinde Offen Ex & Frincis K         SD Diagr Ave         City         City           134-120-00300         Vinde Offen Ex & Frincis K         SD Diagr Ave         City         City           134-120-00300         Vinde Offen Ex & Frincis K         SD Diagr Ave         City         City           134-120-00300         Vinde Offen Ex & Frincis K         SD Diagr Ave         City         City           134-120-00300         Vinde Robert         17 Research Ke         SD Diagr Ave         City         City           134-120-00300         Vinde Robert         17 Research Ke         SD Diagr Ave         Diagr Ave         Diagr Ave         Diagr Ave           134-120-00300         Vinde Robert         10 Firster         SD Diagr Ave         Diagr Ave <td< td=""><td>Encl ID         Owner Name         Num         Statutury         Mark &amp; 5 Cuty         Statuty           134.120.07060         To Bearon ILC         Statutury         Statuty         Statuty         Cuty         Cuty         Cuty         Statuty         Statuty</td><td></td><td>Bethany Beach</td><td>PO Box 1077</td><td>Ryan James F Trustee</td><td>134-12.00-2048.00</td><td>RPO</td></td<>	Encl ID         Owner Name         Num         Statutury         Mark & 5 Cuty         Statuty           134.120.07060         To Bearon ILC         Statutury         Statuty         Statuty         Cuty         Cuty         Cuty         Statuty		Bethany Beach	PO Box 1077	Ryan James F Trustee	134-12.00-2048.00	RPO
Parcel ID         Owner Name         Address         Address         Cru           134-12.07-100.00         Node Bacen LLC         POLABORT	Derich ID         Conner Name         No         Address         Cry           134-120-00050         The Beard NLC         Marca S         Cry         Address         Cry           134-120-00050         Working Robert D / Reverable         SD Diagk Ame         Orange Park         Diagk Ame         Cry           134-120-00050         Working Robert D / Reverable         SD Diagk Ame         Orange Park         Diagk Ame		Ocean View	13 Demarie Dr	Pickrell George Moss & Mary Ann G	134-12.00-2047.00	RPO
Parcel ID         Owner Name         Parcel ID         Address         Address           1341200-202300         The Beacen LLC         Standard	Encl ID         Durner Name         Nume         Nume         Nume         Support           1341200-2003.00         Tac Bearon LLC         Stanza Stanza         Stanza <td></td> <td>Ocean View</td> <td>18 Elliott Ave</td> <td>Walter George M &amp; Cynthia B</td> <td>134-12.00-2046.00</td> <td>RPO</td>		Ocean View	18 Elliott Ave	Walter George M & Cynthia B	134-12.00-2046.00	RPO
Parcel ID         Owner Name         Num R         S I want want want want want want want want	Encel ID         Owner Name         Address         Charles Name           134-1200-70500         Tele Bearon LLC         Address         Charles Name         Charles Name           134-1200-70500         Tele Bearon LLC         Stable Name         Stable Name         Charles Name         Charles Name           134-1200-70500         Micros Bearon LLC         Stable Name         Stable Name         Charles Name         Charles Name           134-1200-70500         Micros Bearon LLC         Stable Name         Stable Name         Charles Name	_	Wilmington	310 Charlseton Dr	Rogers Barry E & Nancy J Rogers	134-12.00-2045.00	RPO
Parcel ID         Owner Name         International Control of the Report International Control of the Report International Control of Contro of Contro Ontener of Control of Contro	Encel ID         Owner Name         Prover Name         <		Bethany Beach	PO Box 181	Demarie Peter P II TTEE	134-12.00-2043.00	RPO
Barcel ID         Owner Name         Address         City           134-1200-2008.00         Wood Goodn 55 & Particia K         SB Dalay Ave         Orange Yard         Orange Yard           134-1200-2008.00         Wood Goodn 55 & Particia K         SB Dalay Ave         Orange Yard         Holdesin	Encellin         Owner Name         Address         City           134-1200-17000         Readeron LLC         Address         Address         City           134-1200-17000         Need Bearon LLC         Standard Standard         Standard Standard         City           134-1200-17000         Need Bearon LLC         Standard Standard         Standard Standard         City           134-1200-17000         Need Bearon LLC         Standard Standard         Standard Standard         City           134-1200-17000         Need Bearon LLC         Standard Standard         Standard Standard         City           134-1200-17000         Need Bearon LLC         Standard Standard         Standard Standard         City           134-1200-17000         Need Bearon LLC         Standard Standard         Standard Standard         City           134-1200-17000         Need Bearon LLC         Standard Standard         Standard Standard         City           134-1200-17000         Fired Bearon LLC         Standard Standard         Standard Standard         City           134-1200-17000         Standard Standard         Standard Standard         Standard Standard         City           134-1200-17010         Standard Standard         Standard Standard         City         City <t< td=""><td></td><td>Bethesda</td><td>6119 Wicasset Rd</td><td>Haar Michael J &amp; Therese C</td><td>134-12.00-2041.00</td><td>RPO</td></t<>		Bethesda	6119 Wicasset Rd	Haar Michael J & Therese C	134-12.00-2041.00	RPO
Brecl ID         Owner Name         Adversal         Adversal         Encl ID           134-1200-2008.00         Wood Gondon ES & Paricia K         58 Daley Ave         Onage Park         Onage Park           134-1200-2008.00         Wood Gondon ES & Paricia K         58 Daley Ave         Onage Park         Onage Park           134-1200-2008.00         Wood Gondon ES & Paricia K         59 Daley Ave         Onage Park         Onage Park           134-1200-2008.00         Wood Gondon ES & Paricia K         59 Daley Ave         Onage Park         Onage Park           134-1200-2008.00         Wood Gondon ES & Paricia K         59 Daley Ave         Daley Ave         Daley Ave           134-1200-2007.00         Frey John K/r         Stott Ender         100 Block Ave         Daley Ave           134-1200-2007.00         Frey John K/r         Stott Ender         Daley Ave         Daley Ave           134-1200-2007.00         Frey John K/r         Stott Ender Daley Ave         Daley Ave         Daley Ave           134-1200-2007.00         Frey John K/r         Stott Ender Daley Ave         Daley Ave         Daley Ave           134-1200-2007.00         Frey John K/r         Stott Ender Daley Ave         Daley Ave         Daley Ave           134-1200-2007.00         Kore Frey John K/r         Stott Ender Daley Ave	Encell D         Owner Name         Pare		Annville	313 Reigerts Lane	Hoffer Joseph R	134-12.00-2039.00	RPO
Encell D         Owner Name         Address         Address         City           134-1200-2003.00         Tac Beacon LLC         None Set A Princia K         Sta Dialey Ave         City         City           134-1200-2003.00         Nick Set H Trustee         Sta Dialey Ave         Sta Dialey Ave         City         City           134-1200-2003.00         Nick Set H Trustee         Sta Dialey Ave         Sta Dialey Ave         City         City           134-1200-2003.00         Nick Set H Trustee         Sta Dialey Ave         Sta Dialey Ave         City         City           134-1200-2003.00         Nick Set H Trustee         Sta Dialey Ave         Sta Dialey Ave         Dialey Ave         Dialey Ave           134-1200-2003.00         Bank Ann J         Sta Mick Way         Sta Dialey Ave         Dialey Ave         Dialey Ave         Dialey Ave           134-1200-2003.00         Bank Ann J         Sta Staway Staway         Dialey Ave	Parcel ID         Owner Name         Address         Address         City           134-1200-2008.00         Wood Gordon 55 & Particia K         SB baser, Ave         Orange Park         Orange Park           134-1200-2008.00         Wood Gordon 55 & Particia K         SB baser, Ave         Orange Park         Orange Park           134-1200-2008.00         Wood Gordon 55 & Particia K         SB baser, Ave         Orange Park         Orange Park           134-1200-2008.00         Wood Gordon 55 & Particia K         SB baser, Ave         Orange Park         Orange Park           134-1200-2008.00         Wood Gordon 55 R Particia K         SB baser, Ave         Orange Park         Orange Park           134-1200-2005.00         Barks Ann J         Storanora Kasoi-Jaon of Owners Inc.         Storanora Kasoi         Hockssin           134-1200-2005.00         Barks Ann J         Storanora Kasoi         Hockssin         Hockssin           134-1200-2005.00         Barks Ann J         Storanora Kasoi         Hockssin         Hockssin           134-1200-2005.00         Barks Marks         Storanora Kasoi         Hockssin         Hockssin           134-1200-2007.00         Barks Marks         Storanora Kasoi         Goran View         Orano View           134-1200-2007.00         Barks Marks         Torase		Newark	105 Briggs Ln	Ganc Properties LLC	134-12.00-2033.00	RPO
Parcel ID         Owner Name         Address         Address         City           134-1200-0008.00         Wood Gordon E Sr. Branicia X         Si Dalay Ave         Cosan View         Cosan View           134-1200-0008.00         Wood Gordon E Sr. Branicia X         Si Dalay Ave         Cosan View         Cosan View           134-1200-0008.00         Wood Gordon E Sr. Branicia X         Si Dalay Ave         Cosan View         Cosan View           134-1200-0008.00         Wood Gordon E Sr. Branicia X         Si Dalay Ave         Cosan View         Cosan View           134-1200-0008.00         Wood Gordon E Sr. Branicia X         Si Dalay Ave         Cosan View         Dagboro           134-1200-0008.00         Wood Gordon E Sr. Branicia X         Si Dalay Ave         Dagboro         Dagboro           134-1200-0008.00         Fery John K/r         31951 Branis Rd         Dagboro         Dagboro           134-1200-0009.00         Gordonan Vars S         Organ View         Dagboro         Dagboro           134-1200-0009.00         Kircher Mark G         30717 Pacardiul In         Occan View         Cocan View           134-1200-0010.00         Branich A Instre         30717 Pacardiul In         Occan View         Cocan View           134-1200-0010.00         Borgenet A Instre         30717 Pacardiu In <td>Breel ID         Dumer Name         Address         City           134-1200-2030.00         Tac Bearon LLC         To Bears         For Address         City           134-1200-2030.00         Wood Gordon FS &amp; Pariria K         SB Daiser Are         City         City           134-1200-2030.00         Wood Gordon FS &amp; Pariria K         SB Daiser Are         City         City           134-1200-2030.00         Windig Bodort D // Revooable         SD Naiser Are         City         City           134-1200-2030.00         Windig Bodort D // Revooable         SD Weindigg Drive         SD Steps Are         City           134-1200-2030.00         Windig Bodort D // Revooable         SD Weindigg Drive         SD Steps Are         Diagboro           134-1200-232.00         Forey John K/r         SD Steps Are         Diagboro         Diagboro           134-1200-232.00         Grandview Stores HOA Inc         SD Steps Are         Diagboro         Diagboro           134-1200-232.00         Grandview Stores HOA Inc         SD Steps Are         Diagboro         Diagboro           134-1200-232.00         Grandview Stores HOA Inc         SD Steps Are         Diagboro         Diagboro           134-1200-232.00         Grandview Stores HOA Inc         SD Steps Are         Diagboro         Diagboro     <td></td><td>Windsor Mill</td><td>8711 Wrights Mill Rd</td><td>DeJarnette Beryl R Trustee</td><td>134-12.00-2032.00</td><td>RPO</td></td>	Breel ID         Dumer Name         Address         City           134-1200-2030.00         Tac Bearon LLC         To Bears         For Address         City           134-1200-2030.00         Wood Gordon FS & Pariria K         SB Daiser Are         City         City           134-1200-2030.00         Wood Gordon FS & Pariria K         SB Daiser Are         City         City           134-1200-2030.00         Windig Bodort D // Revooable         SD Naiser Are         City         City           134-1200-2030.00         Windig Bodort D // Revooable         SD Weindigg Drive         SD Steps Are         City           134-1200-2030.00         Windig Bodort D // Revooable         SD Weindigg Drive         SD Steps Are         Diagboro           134-1200-232.00         Forey John K/r         SD Steps Are         Diagboro         Diagboro           134-1200-232.00         Grandview Stores HOA Inc         SD Steps Are         Diagboro         Diagboro           134-1200-232.00         Grandview Stores HOA Inc         SD Steps Are         Diagboro         Diagboro           134-1200-232.00         Grandview Stores HOA Inc         SD Steps Are         Diagboro         Diagboro           134-1200-232.00         Grandview Stores HOA Inc         SD Steps Are         Diagboro         Diagboro <td></td> <td>Windsor Mill</td> <td>8711 Wrights Mill Rd</td> <td>DeJarnette Beryl R Trustee</td> <td>134-12.00-2032.00</td> <td>RPO</td>		Windsor Mill	8711 Wrights Mill Rd	DeJarnette Beryl R Trustee	134-12.00-2032.00	RPO
FerreIID         Owner Name         Address         City           134-1200-270.00         Tac Bearon LLC         Address         City           134-1200-270.00         Tac Bearon LLC         Status         Status         City           134-1200-270.00         Dick Sue H Trustee         Status         Status         City           134-1200-270.00         Dick Sue H Trustee         Status         City         City           134-1200-270.00         Dick Sue H Trustee         Status         City         City           134-1200-270.00         Fork bent D rak Revoable         12 Visiek Aver         City         City           134-1200-270.00         Fork bent D rak Revoable         12 Visiek Aver         Disty Name         Disty Name           134-1200-270.00         Fork bent T rustee         Status         Status         Disty Name         Disty Name           134-1200-270.00         City Aver         Status         Status         Disty Name         Disty Name         Disty Name           134-1200-270.00         City Aver         Gity Aver         Disty Name         Disty Name         Disty Name           134-1200-270.00         City Aver         Gity Aver         Disty Name         Disty Name         Disty Name           134-1200-270.	Ententition         Owner Name         Address         Address         City           134-12.00-2008.00         Tac beacon LC         90 Beax XSS.         Orange Park         Orange Park           134-12.00-2008.00         Wood Gordan E 5F & Paricia K         58 Diage Ave         Coan View         Orange Park           134-12.00-2008.00         Wood Gordan E 5F & Paricia K         58 Diage Ave         Coan View         Orange Park           134-12.00-2008.00         Wood Gordan E 5F & Paricia K         58 Diage Ave         Status Ave         Coan View           134-12.00-2008.00         Wood Gordan E 5F & Paricia K         58 Diage Ave         Orange Park         Coan View           134-12.00-2005.00         Bark Ann J         12 Windweld Way         Status Nave Status Ave         Diage Ave           134-12.00-2005.00         Bark Ann J         13850 Read Status Ave         Diage Ave         Diage Ave           134-12.00-2005.00         Bark Ann J         12 Windweld Way         Diage Ave         Diage Ave           134-12.00-2005.00         Bark Ann J         12 Elicit Ave         Oran View         Diage Ave           134-12.00-2005.00         Bark Ke Mark S         30017 Paceful In         Ocean View         Ocean View           134-12.00-2005.00         Borann Aver S         3000 Greensbord Trait <td>_</td> <td>Windsor Mill</td> <td>8711 Wrights Mill Rd</td> <td>DeJarnette Beryl R Trustee</td> <td>134-12.00-2031.00</td> <td>RPO</td>	_	Windsor Mill	8711 Wrights Mill Rd	DeJarnette Beryl R Trustee	134-12.00-2031.00	RPO
Parcel ID         Owner Name         Parcel ID         Owner Name         Parcel ID         Owner Name         Parcel ID         City           134-1200-2008.00         Tac Bearon LLC         Pol BoarxSS         Address         City         Comer Status         City         Comer Status         City         Comer Status         City	Parcel ID         Owner Name         Address         Address         City           134-1200-0008.00         Wood Gordon E Sr. & Fatricia K         SD Daky Ave         Cosan View         Cosan View           134-1200-0008.00         Wood Gordon E Sr. & Fatricia K         SD Daky Ave         Cosan View         Cosan View           134-1200-0008.00         Wood Gordon E Sr. & Fatricia K         SD Daky Ave         Cosan View         Cosan View           134-1200-0008.00         Wood Gordon E Sr. & Fatricia K         SD Daky Ave         SD Daky Ave         Cosan View           134-1200-0008.00         Forey John K/r         SD Daky Ave         SD Swending Drive         Hockesin           134-1200-0075.00         Forey John K/r         SD Swending Drive         Hockesin         Dagsboro           134-1200-0075.00         Forey John K/r         SD Swending Drive         Hockesin         Dagsboro           134-1200-0075.00         Grandview Shores HOA Inc         SD Swending Drive         Hockesin         Dagsboro           134-1200-0075.00         Grandview Shores HOA Inc         SD Steredu In         Ocean View         Cosan View           134-1200-0075.00         Gordona Marc         SD Steredu In         Ocean View         Cosan View           134-1200-0070.00         Kriter Mark G         30717 Faceful	_	Ocean View	47 Daisey Ave	Skolnick Barry David	134-12.00-2028.00	RPO
Parcel ID         Owner Name         Address         City           134-1200-2008.00         Tac bescon LLC         Pol Back XBS         Address         City           134-1200-2008.00         Tac bescon LLC         Pol Back XBS         Address         City           134-1200-2008.00         Pol Sex XBS         Address         City         Coan View           134-1200-2008.00         Polic Sue H moste         Statistical K         Statistical K         Statistical K           134-1200-2008.00         Polic Sue H moste         Statistical K         Statistical K         Statistical K           134-1200-2009.00         Polic Sue H moste         Statistical K         Statistical K         Statistical K         Statistical K           134-1200-2009.00         Free John K Jm         Statistical K         Statistical K         Statistical K         Statistical K           134-1200-2019.00         Free John K Jm         Statistical K         Statistical K         Statistical K         Statistical K         Statistical K           134-1200-2019.00         Rank K Am J         Statistical K	Parcel ID         Owner Name         Address         City           134-1200-2003.00         Tac Beacon LLC         Pol Securpts         Address         City           134-1200-2003.00         Viced Gordon E Sr & Parkia K         SP Daisey Ave         SP Daisey Ave         City           134-1200-2003.00         Viced Gordon E Sr & Parkia K         SP Daisey Ave         SP Daisey Ave         City           134-1200-2003.00         Viced Gordon E Sr & Parkia K         SP Daisey Ave         Sity Ave         City           134-1200-2003.00         Viced Gordon E Sr & Parkia K         SP Daisey Ave         Sity Ave         City           134-1200-2025.00         Viced Gordon E Sr & Parkinge Drive         102 Vinnivard Way         Digston         Digston           134-1200-2025.00         Frey Jeink Kir         St Digston Keg         Digston         Digston           134-1200-2025.00         Grandview Shores HOA Ire         St Digston Keg         Digston         Digston           134-1200-2025.00         Barks Hon Jity         St Digston Keg         Digston         Digston           134-1200-2025.00         Barks Hon Jity         St Digston Keg         Digston         Digston           134-1200-2025.00         Rice Gordon E Sr Trustee         St Digston Rd         Digston         Digston     <		Ocean View	49 Daisy Avenue	Verger Carey Michael	134-12.00-2027.00	RPO
Barcel ID         Owner Name         Address         Address           194-1200-2003.00         Tac Beacon LLC         Police View         Police View         City           194-1200-2003.00         Wood Gordon 55 & Patricia K         51 Disey Ave         City         City           194-1200-2003.00         Police View         Statistical K         51 Disey Ave         City         City           194-1200-2003.00         Police View H Trustee         Disey Ave         Statistical K         Statistical K         City         City           194-1200-2003.00         Polite Keet H Trustee         12 Windward Way         Disey Ave         City         Disey Ave	Parcel ID         Owner Name         Address         City           134-1200-20030.00         Tac Beacen LLC         Po Boar X855         Address         City           134-1200-20030.00         Vicod Gordon E 5 & Patricia K         Si basey Ave         Ocean View         Ocean View           134-1200-20030.00         Vicod Gordon E 5 & Patricia K         Si basey Ave         Ocean View         Ocean View           134-1200-20030.00         Vicod Gordon E 5 & Patricia K         Si basey Ave         Ocean View         Ocean View           134-1200-20030.00         Vicod Gordon E 5 & Patricia K         Si basey Ave         Ocean View         Ocean View           134-1200-20030.00         Vicod Gordon E 5 & Patricia K         Si basey Ave         Ocean View         Ocean View           134-1200-2002.00         Ferey John K Jr         Its Base Rev Fill         Si Basey Ave         Ocean View           134-1200-2013.00         Grandview Shores HOA Inc         Its Base Rev Fill         Ocean View         Ocean View           134-1200-2020.00         Gordon E 5 & Trustee         Si Basey Ave         Ocean View         Ocean View           134-1200-2010.00         Kircher Mark G         3071 Peaceful In         Ocean View         Ocean View           134-1200-2011.00         Kircher Mark G         3071 Peaceful In		Phoenix	2901 Vork Manor Rd	Wajbel Paul J Jr	134-12.00-2026.00	RPO
Parcel ID         Owner Name         Address         City           134-1200-070:00         Tar Bearon LLC         Owner Name         Address         City           134-1200-070:00         Tar Bearon LLC         Object Set Patricia K         S10 Disey Are         Orange Park           134-1200-070:00         Polic Sue H Trustee         S10 Disey Are         Orange Park         Orange Park           134-1200-070:00         Polic Sue H Trustee         S10 Disey Are         Ocean View         Disey Are         Ocean View           134-1200-070:00         Polic Sue H Trustee         S10 Disey Are         Ocean View         Disey Are         Ocean View           134-1200-070:00         Polic Sue H Trustee         S10 Disey Are         Ocean View         Disey Are           134-1200-070:00         Frey John K Ir         S10 Banks Rd         Disey Are         Hockesin           134-1200-070:00         Grant View Shores H OA         S10 Disey Are         Hockesin         Hockesin           134-1200-070:00         Grant View Shores H OA         S10 Disey Are         Hockesin         Hockesin           134-1200-070:00         Risk Kery Elitabeh Tree of the Robert         S10 Disey Are         Ocean View         Ocean View           134-1200-070:00         Korhe Flanc Donald         30715 Peaceful Ln <td>Parcel ID         Owner Name         Address         City           134-1200-27000         Tab Bearon LLC         Pol Sex 1335         Address         City           134-1200-27000         Tab Bearon LLC         Pol Sex 1335         Address         City           134-1200-27000         Tab Bearon LLC         Pol Sex 1335         Address         City           134-1200-27000         Polick See H Trustee         12 Vindward Way         Policy Ave         City           134-1200-275.00         Polick Reit H Trustee         12 Vindward Way         Polick Sie H Trustee         City           134-1200-275.00         Free Idle Commons Association of Owners Inc         1355 New St         City         Nockessin           134-1200-275.00         Banks Am J         1355 New St         Disty Ave         Disty Ave         Disty Ave           134-1200-275.00         Banks Am J         1355 New St         Disty Ave         Disty Ave         Disty Ave         Disty Ave           134-1200-275.00         Banks Am J         10 Elliott Ave         Disty Ave         &lt;</td> <td></td> <td>Georgetown</td> <td>PO Box 589</td> <td>Sussex County</td> <td>134-12.00-2022.00</td> <td>RPO</td>	Parcel ID         Owner Name         Address         City           134-1200-27000         Tab Bearon LLC         Pol Sex 1335         Address         City           134-1200-27000         Tab Bearon LLC         Pol Sex 1335         Address         City           134-1200-27000         Tab Bearon LLC         Pol Sex 1335         Address         City           134-1200-27000         Polick See H Trustee         12 Vindward Way         Policy Ave         City           134-1200-275.00         Polick Reit H Trustee         12 Vindward Way         Polick Sie H Trustee         City           134-1200-275.00         Free Idle Commons Association of Owners Inc         1355 New St         City         Nockessin           134-1200-275.00         Banks Am J         1355 New St         Disty Ave         Disty Ave         Disty Ave           134-1200-275.00         Banks Am J         1355 New St         Disty Ave         Disty Ave         Disty Ave         Disty Ave           134-1200-275.00         Banks Am J         10 Elliott Ave         Disty Ave         <		Georgetown	PO Box 589	Sussex County	134-12.00-2022.00	RPO
Parcel ID         Owner Name         MAR         5         2019           134-1200-170.00         Tac Bearon LLC         File Paircia K         Stable Stable         Address         City           134-1200-170.00         Tac Bearon LLC         File Paircia K         Stable Stable         Address         City           134-1200-170.00         Tac Bearon LLC         File Paircia K         Stable Paircia K         Stable Paircia K         Stable Paircia K         Stable Paircia K         Orange Park           134-1200-170.00         Fire Value         Dirk Skeit H Trustee         Stable Paircia K         Stable Paircia K         Orange Park           134-1200-170.00         Fire Value Keit File Paircia K         Stable Paircia K         Stable Paircia         Ocean View           134-1200-170.00         Fire Value Kern Stable Commons Assolation of Owners Inc.         Stable News         Stable Paircia K         Opean View           134-1200-175.00         Fire Value Kern Stable Thee of the Robert         10 Ellicit Ake         Opean View         Opean View           134-1200-362.00         Grandview Shores HOA Inc         10 Ellicit Ake         Opean View         Opean View           134-1200-362.00         Grandview Shores HOA Inc         10 Ellicit Ake         Opean View         Opean View           134-1200-362.00	Parcel ID         Owner Name         Address         City           134 1200-170.00         Tar Bearon LL         Policy	-	Hockessin	805 Westridge Drive	Whiting Robert D Jr Trustee	134-12.00-2021.00	RPO
Parcel ID         Owner Name         Address         City           134-12.00-707.00         Tac Beacen LLC         Po Box 1055         Address         City           134-12.00-707.00         Tac Beacen LLC         Po Box 1055         City         City           134-12.00-707.00         Tac Beacen LLC         Po Box 1055         City         City           134-12.00-707.400         Porticine Firen Beacen LLC         Status         Status         City           134-12.00-707.400         Porticine Firen Beacen LLC         Status         Status         City           134-12.00-707.400         Porticine Commons Association of Owners Inc         Status         City Individual Viav         City Individual Viav           134-12.00-707.400         Firey John Kur         Status         Status         City Individual Viav         City Individual Viav           134-12.00-707.400         Firey John Kur         Status         Status         Diage New St         Diage Nore           134-12.00-707.400         Easter Name W         Status         Diage New St         Diage New St         Diage New St           134-12.00-707.400         Easter Name W         Status         Status         Diage New St         Diage New St         Diage New St           134-12.00-7015.00         Kircher Hark G<	Parcel ID         Owner Name         Address         City           134-1200-2003.00         Tac Bearon LLC         Police LTG         Address         City           134-1200-2003.00         Tac Bearon LLC         Police LTG         Address         City           134-1200-2003.00         Wood Gordon E Sr & Patricia K         St Disky Are         Disky Are         City           134-1200-2003.00         Winning Robert D Ir fevorable         St Disky Are         City         City           134-1200-2003.00         Police Commons Association of Owners Inc         St Disky Are         Disky Are         Disky Are           134-1200-2003.00         Polite Commons Association of Owners Inc         St Disky Are         Disky Are         Disky Are           134-1200-2003.00         Foreside Commons Association of Owners Inc         St Disky Are         Disky Are         Disky Are           134-1200-205.00         Foreside Commons Association of Owners Inc         St Disky Are         Disky Are         Disky Are           134-1200-205.00         Foreside Commons Association of Owners Inc         St Disky Are         Disky Are         Disky Are           134-1200-205.00         Grankiew Shires HA Inc         It Disky Are         Disky Are         Disky Are         Disky Are           134-1200-205.00         Disky Ker Nini		Severna Park	664 Shore Rd	Fitzgerald Kevin & Nancy Fitzgerald	134-12.00-2020.00	RPO
Parcel ID         Owner Name         Aldress         Address         City           134.12.00-170.00         Tac Beacon LLC         Pol Social S	Parcel ID         Cinner Name         Address         City           134-1200-170.00         To a Bearon LLC         NA.R. & 5 C019         Address         City           134-1200-170.00         To a Bearon LLC         Bearon LLC         Bearon LLC         City         City           134-1200-170.00         To a Bearon LLC         Bearon LLC         Statiss         City         City           134-1200-170.00         Perfeiberger Fierni B         Statiss         Statiss         City         City           134-1200-170.00         Perfeiberger Fierni B         Statiss         Statiss News         Statiss News         City         City           134-1200-170.00         Fery Fihrs         Revocable         Statiss News         Statiss News         City         City           134-1200-172.00         Fery Fihrs         Revocable         Statiss News         Statiss News         City         City         City           134-1200-175.00         Fery Fihrs         Revocable         Statiss News         Statiss News         City         City <td< td=""><td>-</td><td>Ocean View</td><td>42 Daisey Ave</td><td>Smith Ronald E Trustee of The</td><td>134-12.00-2019.00</td><td>RPO</td></td<>	-	Ocean View	42 Daisey Ave	Smith Ronald E Trustee of The	134-12.00-2019.00	RPO
Parcel ID         Owner Name         PARCE         Address         City           134.12.00-2003.00         Tac Beacon LLC         Pol Box 1SS         Address         Crange Park           134.12.00-2003.00         Tock Sue H Trustee         SD Daisey Ave         SD Daisey Ave         Crange Park           134.12.00-2003.00         Dick Sue H Trustee         SD Daisey Ave         Crange Park         Crange Park           134.12.00-2003.00         Dick Sue H Trustee         SD Daisey Ave         Crange Park         Crange Park           134.12.00-2003.00         Dick Sue H Trustee         SD Sustridge Drive         Daisey Ave         Crange Park           134.12.00-2023.00         Frey John K Ir         SD Sustridge Drive         Dagsboro         Hockesin           134.12.00-2024.00         Frey John K Ir         SD Sustridge Drive         Hockesin         Hockesin           134.12.00-2025.00         Gas Kerry Elizabeth Tee of the Robert         31858 New St         Hockesin         Hockesin           134.12.00-2026.00         Kircher Mark G         SD Oriens K Alo         Degetoro         Ccean View           134.12.00-3627.00         Gas Kerry Elizabeth Tee of the Robert         10 Ellicitt Ave         Cean View         Cean View           134.12.00-3627.00         Goodman Marc S         SD Oreenston	Parcel ID         Owner Name         Address         City           134.12.00-170.00         Tac Beacon LLC         Pol Box State         Orange Park           134.12.00-2003.00         Vicod Gordon E S & Patricia K         SB Daisey Ave         Orange Park           134.12.00-2003.00         Vicod Gordon E S & Patricia K         SB Daisey Ave         Orange Park           134.12.00-2003.00         Vicod Gordon E S & Patricia K         SB Daisey Ave         Orange Park           134.12.00-2003.00         Vicod Gordon E S & Patricia K         SB Daisey Ave         Orange Park           134.12.00-2003.00         Vicod Scoten E B         Daisey Ave         Orange Park           134.12.00-2003.00         Vicod Scoten E B         Daisey Ave         Orange Park           134.12.00-2003.00         Foreside Commons Assolation of Owners Inc         SDS Westridge Drive         Daisey Ave           134.12.00-2013.00         Foreside Commons Assolation of Owners Inc         SDS Westridge Drive         Daisey Ave           134.12.00-2013.00         Foreside Commons Assolation of Owners Inc         SDS Westridge Drive         Daisey Ave           134.12.00-2013.00         Grandview Shores HOA Inc         10 Elliott Ave         Daisey Ave         Ocean View           134.12.00-2013.00         Grandview Shores HOA Inc         SD D17 Paceful In	_	Oak Hill	Ve	Jones Kenneth E & Kathleen R	134-12.00-2018.00	RPO
Parcel IDOwner NameAddressCity134.12.00-170.00Tac Bearon LLCPG Box 1855PG Box 1855City134.12.00-2003.00Tac Bearon LLCPG Box 1855Po Box 1855City134.12.00-2003.00Dick Sue H TrusteeSB Daisey AveCityCrange Park134.12.00-2003.00Dick Sue H TrusteeSP Daisey AveCityCity134.12.00-2003.00Porfenberger Brent BSB Daisey AveCityCity134.12.00-2005.00Wiking Robert D / RevorableSP Swestridge DriveCityDiagboro134.12.00-2025.00Wiking Robert D / RevorableSP Swestridge DriveDiagboroDiagboro134.12.00-2025.00Wiking Robert D / RevorableSP Swestridge DriveDiagboroDiagboro134.12.00-2025.00Firy John K JrSP Swestridge DriveSP Swestridge DriveDiagboro134.12.00-2025.00Firy John K JrSP Swestridge DriveDiagboroDiagboro134.12.00-2025.00Goodman Marc SSP Swestridge DriveDiagboro Dr Ste L1Diagboro134.12.00-2025.00Goodman Marc SSP Swestridge DriveDiagboro Dr Ste L1Diagboro Dr Ste L1134.12.00-3625.00Kircher Mark GSP Swestridge DriveDiagboro Dr Ste L1Diagboro134.12.00-3625.00Kircher Mark GSP Swestridge DriveDiagboroDiagboro134.12.00-3625.00Kircher Mark GSP Swestridge DriveDiagboroDiagboro134.12.00-3625.00Kircher Mark GSP Swestridge DriveDiagboroDiagboro </td <td>Parcel ID         Owner Name         Address         City           134.12.00-2008.00         Tac Beacon LLC         Fe Beacon LLC         Clean Yiew           134.12.00-2024.00         Poffenberger Brent B         12 Windward Way         St0 Sivestridge Drive         Dagsboro         Dagsboro           134.12.00-2024.00         Frey Lobin K.Pr         St0 Sivestridge Drive         St0 Sivestridge Drive         Dagsboro         Dagsboro           134.12.00-2024.00         Frey Lobin K.Pr         St0 Sivestridge Drive         St0 Sivestridge Drive         Dagsboro         Dagsboro           134.12.00-362.00         Barls Ann J         St0 Sivestridge Drive         St0 Sivestridge Drive         Docen View         Dagsboro           134.12.00-362.00         Grands m Mark G         St0 Tageerful In<td>_</td><td>Ocean View</td><td>46 Daisey Ave</td><td>Timmons Edwards J Jr</td><td>134-12.00-2017.00</td><td>RPO</td></td>	Parcel ID         Owner Name         Address         City           134.12.00-2008.00         Tac Beacon LLC         Fe Beacon LLC         Clean Yiew           134.12.00-2024.00         Poffenberger Brent B         12 Windward Way         St0 Sivestridge Drive         Dagsboro         Dagsboro           134.12.00-2024.00         Frey Lobin K.Pr         St0 Sivestridge Drive         St0 Sivestridge Drive         Dagsboro         Dagsboro           134.12.00-2024.00         Frey Lobin K.Pr         St0 Sivestridge Drive         St0 Sivestridge Drive         Dagsboro         Dagsboro           134.12.00-362.00         Barls Ann J         St0 Sivestridge Drive         St0 Sivestridge Drive         Docen View         Dagsboro           134.12.00-362.00         Grands m Mark G         St0 Tageerful In <td>_</td> <td>Ocean View</td> <td>46 Daisey Ave</td> <td>Timmons Edwards J Jr</td> <td>134-12.00-2017.00</td> <td>RPO</td>	_	Ocean View	46 Daisey Ave	Timmons Edwards J Jr	134-12.00-2017.00	RPO
Parcel IDOwner NameAddressCity134-12.00-2003.00Ta: Beacon LLCPOE as Arricia KS D Jasey AveO crange Park134-12.00-2003.00Ta: Beacon LLCPOE as Arricia KS D Jasey AveO crange Park134-12.00-2003.00Dick Sue H TrusteeST D Jasey AveO crange Park134-12.00-2003.00Poffenberger Brent B12 Windward WayD Stee Arricia KS D Jasey Ave134-12.00-2003.00Poffenberger Brent B12 Windward WayD gasboro134-12.00-2023.00Poffenberger Brent B12 Windward WayD gasboro134-12.00-2024.00Poreside Commons Association of Owners Inc805 Westridge DriveD gasboro134-12.00-2025.00Wihing Robert D Jr Revocable3150 Banks RdD gasboro134-12.00-275.00Banks Ann J3150 Banks RdD gasboro134-12.00-275.00Grandview Shores HOA Inc10 Elliott AveD gasboro134-12.00-275.00Grandview Shores HOA Inc10 Elliott AveD cean View134-12.00-3626.00Kircher Mark G30717 Peaceful InMcLean134-12.00-3626.00Kircher Mark G30715 Peaceful InMcLean134-12.00-3626.00Kircher Mark G30715 Peaceful InMcLean134-12.00-3627.00Goodman Marc S30705 Peaceful InO cean View134-12.00-3627.00Goodman Marc S30705 Peaceful InMcLean134-12.00-3628.00Wiod Goodma F TrusteeSB Daisey AveO cean View134-12.00-3628.00Weak George JSC Bolsey AveO cean View <td>Parcel IDOwner NameAddressCiv134.12.00-2003.00Tac Beacon LLCPol Beacin LSAddressCivCiv134.12.00-2003.00Tac Beacon LLCPol Beacin LSPol Beacin LSP</td> <td></td> <td>Newtown</td> <td>107 Frost Ln</td> <td>Smolen James A</td> <td>134-12.00-2016.00</td> <td>RPO</td>	Parcel IDOwner NameAddressCiv134.12.00-2003.00Tac Beacon LLCPol Beacin LSAddressCivCiv134.12.00-2003.00Tac Beacon LLCPol Beacin LSPol Beacin LSP		Newtown	107 Frost Ln	Smolen James A	134-12.00-2016.00	RPO
Parce IDOwner NameMAR22019134-11.00-2003.00Tac Beacon LLCPO Box 18SSAddressCity134-11.00-2003.00Wood Gordon E Sr & Patricia KS7 Daisey AveOrange Park134-11.00-2003.00Wood Gordon E Sr & Patricia KS7 Daisey AveOcean View134-11.00-2003.00Wood Gordon E Sr & Patricia KS7 Daisey AveOcean View134-11.00-2003.00Poffenberger Brent B12 Windward WayOcean View134-11.00-2005.00Poffenberger Brent B12 Windward WayOgean View134-11.00-2005.00Poffenberger Brent B12 Windward WayOgean View134-11.00-2005.00Porside Commons Association of Owners Inc805 Westridge DriveHockessin134-12.00-2025.00Perside Commons Association of Owners Inc805 Westridge DriveHockessin134-12.00-3025.00Perside Commons Association of Owners Inc805 Westridge DriveHockessin134-12.00-325.00Banks Ann J10 Ellint AveOcean View134-12.00-3625.00Case Kerry Elizabeth Tree of the Robert42 Central AveOcean View134-12.00-3625.00Destefano Donald30717 Peaceful InOcean View134-12.00-3625.00Destefano Donald30717 Peaceful InOcean View134-12.00-3625.00Kircher Mark G30713 Peaceful InOcean View134-12.00-3625.00Weis Wend Gordon E Sr Tustee3235 Reservation TrailOcean View134-12.00-3003.00Weis George 1Ocean ViewOcea	Image: Im	_	Wilmington	310 Charlseton Dr	Rogers Barry E & Nancy J Rogers	134-12.00-2015.00	RPO
Parcel ID       Owner Name       MAR       2 5 2019         134 12.00-170.00       Tac Beacon LLC       Foldex 1855       Address       City         134 12.00-2008.00       Wood Gordon F Sr & Patricia K       58 Daisey Ave       So Daisey Ave       Orange Park         134 12.00-2008.00       Wood Gordon F Sr & Patricia K       58 Daisey Ave       So Daisey Ave       Orange Park         134 12.00-2023.00       Dick Sue H Tustee       St Daisey Ave       St Daisey Ave       Orange Park         134 12.00-2025.00       Winking Boert D Jr Revocable       120 Vindward Way       Ocean View         134 12.00-2225.00       Winking Commons Association of Owners Inc       805 Westridge Drive       Hockessin         134 12.00-225.00       Banks Ann J       Stabasey Ave       Hockessin       Hockessin         134 12.00-225.00       Banks Ann J       Stabasey Ave       Dagsboro       Ocean View         134 12.00-235.00       Grandview Shores HOA Inc       13838 New St       Dagsboro       Ocean View         134 12.00-235.00       Grandview Shores HOA Inc       10 Elliott Ave       Ocean View       Ocean View         134 12.00-362.00       Gordman Marc S       30705 Paaceful In       Ocean View       Ocean View         134 12.00-362.00       Goodman Marc S       30705 Paacef	ParceIID       Owner Name       MAR       2.5       2.019         134-12.00-2003.00       Tac Beacon LLC       PG Box 18SS       Address       City         134-12.00-2003.00       Wood Gordon E Sr & Patricia K       S B Daisey Ave       Orange Park         134-12.00-2003.00       Wood Gordon E Sr & Patricia K       S D Daisey Ave       Orange Park         134-12.00-2003.00       Wood Gordon E Sr & Patricia K       S D Daisey Ave       Ocean View         134-12.00-2023.00       Poffenberger Brent B       12. Windward Way       Ogsbor View         134-12.00-2025.00       Poffenberger Brent B       12. Windward Way       Ogsbor View         134-12.00-2025.00       Frey John K       S E Daisey Ave       Ogsbor View         134-12.00-2025.00       Frey John K       S E Daisey Ave       Ogsbor View         134-12.00-2025.00       Banks Ann J       St5D Banks Rd       Ocean View         134-12.00-322.00       Grandview Shores HOA Inc       St5D Banks Rd       Ocean View         134-12.00-325.00       Grandview Shores HOA Inc       St3D Generabur       Ocean View         134-12.00-325.00       Goodman Marc S       St3D Spaceful In       Ocean View         134-12.00-325.00       Goodman Marc S       St3D Spaceful In       Ocean View         134		Chevy Chase	3805 Village Park Dr	Ryan Mark W & Nancy A Ryan	134-12.00-2014.00	RPO
Parcel IDOwner NameMAR22 019134-12.00-170.00Tac Beacon LLCFoc Box 1855Orange Park134-12.00-2008.00Wood Gordon E Sr & Patricia K58 Daisey AveOcean View134-12.00-2007.00Dick Sue H Truste58 Daisey AveOcean View134-12.00-2007.00Polick Sue H Truste805 Westridge DriveOcean View134-12.00-2007.00Polick Sue H Truste805 Westridge DriveDaisey Ave134-12.00-2027.00Poreside Commons Association of Owners Inc805 Westridge DriveDagsboro134-12.00-275.00Banks Ann J31501 Banks RdOcean View134-12.00-275.00Banks Ann J31501 Banks RdOcean View134-12.00-275.00Gase Karn Elizabeth Tkee of the Robert31501 Banks RdOcean View134-12.00-362.00Grandview Shores HOA Inc10 Elliott AveDagsboro134-12.00-362.00Goodman Marc S30717 Peaceful InOcean View134-12.00-362.00Goodman Marc S30705 Peaceful InOcean View134-12.00-362.00Goodman Marc S30705 Peaceful InOcean View134-12.00-362.00Weide Gordon E Sr TrusteeViewStarbor RdOcean View134-12.00-362.00Weide Gordon E Sr TrusteeStarbor RdOcean View134-12.00-20	ParceIID         Owner Name         Address         Address         City           134-12.00-2003.00         Tac Beacon LLC         Po Box 18S5         Address         City           134-12.00-2003.00         Wood Gordon E Sr & Patricia K         Sb Daisey Ave         Sb Daisey Ave         City           134-12.00-2003.00         Winking Boerd D Jr Revocable         St Daisey Ave         St Daisey Ave         City           134-12.00-2023.00         Winking Boerd D Jr Revocable         St Daisey Ave         City         City           134-12.00-2023.00         Winking Boerd D Jr Revocable         St Daisey Ave         City         City           134-12.00-2025.00         Winking Boerd D Jr Revocable         St Daisey Ave         City         City           134-12.00-2025.00         Vinking Boerd D Jr Revocable         St Disty Ave         Diagsboro         Daigsboro           134-12.00-225.00         Fery John K Jr         St St Statinge Drive         Hockessin         Daigsboro           134-12.00-225.00         Grandwiew Shores HOA Inc         St St Statinge Drive         Hockessin         Daigsboro           134-12.00-325.00         Grandwiew Shores HOA Inc         St Do Inct Ave         City Ave         City Ave           134-12.00-362.00         Grandview Shores HOA Inc         St City Ave		Ocean View	38567 Reservation Trail	Biasotto Lawrence A Trustee	134-12.00-2013.00	RPO
Parcel IDOwner NameMAR 2 5 2019114-12.00-170.00Tac Beacon LLCPo Box 1855AddressCity134-12.00-2023.00Dick Sue H TrusteePo Box 1855Orange Park134-12.00-2023.00Dick Sue H TrusteeS7 Daisey AveOcean View134-12.00-2023.00Dick Sue H TrusteeS7 Daisey AveOcean View134-12.00-2024.00Foreside Commons Association of Owners Inc805 Westridge DriveDagsboro134-12.00-2025.00Whiting Robert D Jr Revocable31501 Banks RdOcean View134-12.00-275.00Banks Arn J31501 Banks RdOcean View134-12.00-275.00Grandview Shores Hol Inc31501 Banks RdOcean View134-12.00-275.00Grandview Shores Hol Inc31501 Banks RdOcean View134-12.00-325.00Grandview Shores Hol Inc10 Elliott AveOcean View134-12.00-325.00Destefano Donald30717 Peaceful InOcean View134-12.00-3625.00Nicrcher Mark G30713 Peaceful InOcean View134-12.00-3625.00Wister Mark G30713 Peaceful InOcean View134-12.00-3625.00Nicrcher Mark G30713 Peaceful InOcean View134-12.00-3625.00Wister Mark GSo Caran ViewOcean View134-12.00-3625.00	Parcel ID       Owner Name       MAR       2 5 2019         134 12.00-170.00       Tac Bearon LLC       Novel Gordon E S & Patricia K       St Daisey Are       Cean View         134 12.00-2003.00       Wood Gordon E S & Patricia K       St Daisey Are       Cean View       Cean View         134 12.00-2023.00       Dick Sue H Trustee       St Daisey Are       Cean View       Cean View         134 12.00-2023.00       Dick Sue H Trustee       St Daisey Are       Cean View       Dagsboro         134 12.00-2023.00       Poffenberger Brent B       St Daisey Are       Cean View       Dagsboro         134 12.00-2023.00       Poffenberger Brent B       St Westridge Drive       Dagsboro       Dagsboro         134 12.00-2024.00       Frey John K Jr       St St St New St       Cean View       Dagsboro         134 12.00-2025.00       Banks Ann J       St St St New St       Cean View       Dagsboro         134 12.00-322.00       Grandview Shores HOA Inc       St St St New St Ceantral Are       Cean View       Cean View         134 12.00-325.00       Grandview Shores HOA Inc       St Del Central Are       Cean View       Cean View         134 12.00-362.00       Grandview Shores HOA Inc       St Del Central Are       Cean View       Cean View         134 12.00-362.00		Ocean View	2 Foreside Ct	Weise George J	134-12.00-2011.00	RPO
ParceIIDOwner NameImageCity134-12.00-7003.00Tac Beacon LLCDo Can ViewDo Box 185.City134-12.00-2003.00Tac Beacon LLCDo Box 185.CityDo Box 185.City134-12.00-2023.00Dick Sue H TrusteeS7 Daisey AveCityCity134-12.00-2023.00Dick Sue H TrusteeS7 Daisey AveCityCity134-12.00-2023.00Poffenberger Brent B12 Windward WayCityDagsboro134-12.00-2025.00Whiting Robert D Jr Revocable12 Windward WayDigsboroDagsboro134-12.00-224.00Foreside Commons Association of Owners Inc3853 New StCityDagsboro134-12.00-225.00Fanks Ann J31501 Banks RdOcean View134-12.00-255.00Banks Ann JCityDiege StoroDiege Storo134-12.00-255.01Grandview Shores HOA Inc31501 Banks RdOcean View134-12.00-355.00Besterian Donald30717 Peaceful InOcean View134-12.00-352.00Kircher Mark G30713 Peaceful InOcean View134-12.00-3625.00Kircher Mark GS0705 Peaceful InOcean View134-12.00-3625.00Kircher Mark GS0705 Peaceful InOcean View134-12.00-3625.00Kircher Mark GS0705 Peaceful InOcean View <td>Image: Image: Im</td> <td>-</td> <td>Ocean View</td> <td>58 Daisey Ave</td> <td>Wood Gordon E Sr Trustee</td> <td>134-12.00-2009.00</td> <td>RPO</td>	Image: Im	-	Ocean View	58 Daisey Ave	Wood Gordon E Sr Trustee	134-12.00-2009.00	RPO
Parcel IDOwner NameClivParcel IDOwner NameNAR2 5 2019MAR2 5 2019Cliv134-12.00-170.00Tac Bearon LLCPo Box 185Cliv134-12.00-2023.00Wood Gordon E Sr & Patricia KSD Daisey AveSD Daisey Ave134-12.00-2025.00Dick Sue H Trustee12 Windward WayCean View134-12.00-2025.00Poffenberger Brent B12 Windward WayCean View134-12.00-2025.00Foreside Commons Association of Owners Inc805 Westridge DriveDeans View134-12.00-2275.00Foreside Commons Association of Owners Inc13501 Banks RdHockessin134-12.00-225.00Foreside Commons Association of Owners Inc13501 Banks RdDean View134-12.00-325.00Foreside Commons Association of Inc13501 Banks RdDeans View134-12.00-325.00Foreside Commons Association Or Inc13501 Banks RdDean View134-12.00-325.00Grandview Shores HOA Inc13501 Banks RdDean View134-12.00-325.00Grandview Shores HOA Inc10 Elliott Ave0Cean View134-12.00-325.00Destefano Donaid30717 Peaceful InOcean View134-12.00-325.00Kircher Mark G30705 Peaceful InOcean View134-12.00-325.00Kircher Mark G	Image: Second Se		Ocean View	543 Harbor Rd	McAleer John F	134-12.00-1361.00	RPO
Parcel IDOwner NameMAR2 5 2019114-12.00-170.00Tac Bearon LLCPO Box 1855Orange Park114-12.00-2003.00Wood Gordon E Sr & Patricia K58 Daisey AveOcean View134-12.00-2023.00Dick Sue H Trustee805 Westridge DriveOcean View134-12.00-2023.00Poffenberger Brent B12 Windward WayOcean View134-12.00-2025.00Whiting Robert D J Revocable805 Westridge DriveOcean View134-12.00-2025.00Robert D J Revocable805 Westridge DriveHockessin134-12.00-225.00Sanks Ann J13501 Banks RdOcean View134-12.00-225.00Grankt Sonication of Owners Inc805 Westridge DriveHockessin134-12.00-225.00Banks Ann J13501 Banks RdOcean View134-12.00-325.00Grankty Elizabeth Tee of the Robert31501 Banks RdOcean View134-12.00-325.00Grandview Shores HOA Inc10 Elliott AveOcean View134-12.00-325.00Grandview Shores HOA Inc30717 Peaceful LnOcean View134-12.00-362.00Kircher Jeanne Liu30713 Peaceful LnOcean View134-12.00-362.00Kircher Mark G30705 Peaceful LnOcean View134-12.00-362.00Kircher Mark GOcean ViewOcean View134-12.00-362.00Kircher Mark G30705 Peaceful LnOcean View134-12.00-362.00Kircher Mark GOcean ViewOcean View134-12.00-362.00Kircher Mark GOcean ViewOcean View	Image: Im	71	Brownstown	PO Box 668	Weiss William Jr	134-12.00-3628.00	APO
Parcel IDOwner NameAddressCity134-12.00-170.00Tac Beacon LLCPO Box 1855Orange Park134-12.00-2023.00Wood Gordon E Sr & Patricia K58 Daisey AveOrange Park134-12.00-2023.00Dick Sue H TrusteeS7 Daisey AveOcean View134-12.00-2025.00Whiting Robert D Jr Revocable805 Westridge DriveDagsboro134-12.00-2724.00Foreside Commons Assoication of Owners Inc805 Westridge DriveHockessin134-12.00-275.00Banks Ann J3150 Banks RdOcean View134-12.00-275.00Banks Ann J3150 Banks RdOcean View134-12.00-322.00Case Kerry Elizabeth Ttee of the Robert10 Elinit AveOcean View134-12.00-322.00Case Kerry Elizabeth Ttee of the Robert10 Elinit AveOcean View134-12.00-322.00Destefano Donald30717 Peaceful InMcLean View134-12.00-325.00Kircher Mark G30713 Peaceful InOcean View	Parcel IDOwner NameMAR2 5 2019134-12.00-170.00Tac Beacon LLCPO Box 1855City134-12.00-2023.00Wood Gordon E Sr & Patricia KS8 Daisey AveCrange Park134-12.00-2023.00Dick Sue H TrusteeS2 Daisey AveCean View134-12.00-2023.00Poffenberger Brent B12 Windward WayCean View134-12.00-2024.00Porfenberger Brent B12 Windward WayDaseborn134-12.00-2025.00Whiting Robert D Ir Revocable805 Westridge DriveDaseborn134-12.00-2025.00Whiting Robert D Ir Revocable805 Westridge DriveDaseborn134-12.00-2025.00Whiting Robert D Ir Revocable805 Westridge DriveDaseborn134-12.00-205.00Banks Ann J31501 Banks RdDaseborn134-12.00-275.00Banks Ann J31501 Banks RdDecan View134-12.00-325.01Grandview Shores HOA Inc31501 Banks RdDecan View134-12.00-325.00Barks Ann J31501 Banks RdDecan View134-12.00-325.00Barks Ann J31501 Banks RdDecan View134-12.00-325.00Barks Ann JCean ViewDecan View134-12.00-325.00Barks Ann JCean ViewDecan View134-12.00-325.00Barks Ann JCean ViewDecan View134-12.00-325.00Barks Ann JCean ViewDecan View134-12.00-325.00Grandview Shores HOA IncCean ViewDecan View134-12.00-325.00Grandview Shores HOA IncCean ViewDecan View134-12.00-325.00 <td>_</td> <td>Ocean View</td> <td>30705 Peaceful Ln</td> <td>Goodman Marc S</td> <td>134-12.00-3627.00</td> <td>APO</td>	_	Ocean View	30705 Peaceful Ln	Goodman Marc S	134-12.00-3627.00	APO
Parcel IDOwner NameMAR& 5 2019134-12.00-170.00Tac Beacon LLCPO Box 1855City134-12.00-2008.00Wood Gordon E Sr & Patricia KS8 Daisey AveOrange Park134-12.00-2023.00Dick Sue H Trustee57 Daisey AveOcean View134-12.00-2024.00Poffenberger Brent B12 Windward WayOcean View134-12.00-2025.00Poffenberger Brent B12 Windward WayOgesboro134-12.00-2724.00Foreside Commons Assoication of Owners Inc805 Westridge DriveHockessin134-12.00-2725.00Banks Ann J31501 Banks RdOcean View134-12.00-272.00Grandview Shores HOA Inc10 Elliott AveOcean View134-12.00-325.00Horag Peter Jeanne Liu10 Elliott AveOcean View134-12.00-325.00Destefano Donald00 Greensboro D's te 11McLean134-12.00-325.00Destefano Donald00 Greensboro D's te 11Ocean View	Image: Im	_	Ocean View	30713 Peaceful Ln	Kircher Mark G	134-12.00-3626.00	APO
Parcel IDOwner NameMARSS2019134-12.00-170.00Tac Beacon LLCPO Box 1855Orange Park134-12.00-2008.00Wood Gordon E Sr & Patricia K58 Daisey AveOrange Park134-12.00-2023.00Dick Sue H Trustee57 Daisey AveOcean View134-12.00-2025.00Poffenberger Brent B12 Windward WayOgsboro134-12.00-2294.00Foreside Commons Association of Owners Inc805 Westridge DriveHockessin134-12.00-275.00Basks Ann J31501 Banks RdOcean View134-12.00-275.00Basks Ann J31501 Banks RdOcean View134-12.00-275.00Grandview Shores HOA Inc10 Elliott AveOcean View134-12.00-275.00Bask Sann J31501 Banks RdOcean View134-12.00-275.00Bask Sann JOcean ViewOcean View134-12.00-276.01Grandview Shores HOA IncOcean ViewOcean View134-12.00-276.01Grandview Shores HOA Inc	Image: Section of ConversionSection of ConversionMAR 2 5 2019MAR 2 5 2019MAddressAddressMAR 2 5 2019MaddressMAR 2 5 2019MaddressMAR 2 5 2019MaddressMAR 2 5 2019MaddressMark 2 5 2019Mark 2 100 Crean ViewDist 1 Mark 2 Central AveOcean ViewMark 200 Grandview Shores HOA Inc10 Elliott AveOcean ViewOcean View						

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10070		Ocean View	3 Hickman Ave	Rhodes John West	134-12.00-321.07	RPO
23225	VA	Richmond	25050 BED Commenter Ko	Tribbit Tyles Lee	134-17 00-371 06	RPO
19970	DE	Ocean View	b Hickman Ave	Bakar Carol A	134-12 00-321 05	RPO
19970	DE	Ocean View	4 Hickman Ave	Knodes Nancy H & John I	134-12.00-321.03	
19970	DE	Ocean View	6 Hickman Ave	Tribbitt Jane H & Timothy R	134-12.00-321.02	RPO
19970	DE	Ocean View	6 Hickman Ave	Tribbitt Jane W	134-12.00-320.00	RPO
21042	MD	Ellicott City	5074 Dorsey Hall Dr Ste 205	Straw Properties LLC	134-12.00-316.00	RPO
21227	MD	Baltimore	1501 S Edgewood St Ste K	Inlet at Pine Grove Homeowner's Association	134-12.00-276.02	RPO
19803	DE	Wilmington	1701 Sunset Lake Rd	Waterside I LLC	134-12.00-276.01	RPO
19970	DE	Millville	31467 River Dr	Hudson Charles R TTEE	134-12.00-273.01	RPO
19970	DE	Millville	31467 River Dr	Hudson Charles R TTEE	134-12.00-273.00	RPO
19803	DE	Wilmington	710 Westcliff Rd	Christian Adam Tyler	134-12.00-272.01	RPO
19939	DE	Dagsboro	29438 Spy Glass Ln	Leon Ellin G Trustee	134-12.00-272.00	RPO
19707	DE	Hockessin	128 Dewberry Drive	Wu Bonnie J	134-12.00-2715.00	RPO
19970	B	Ocean View	31865 Creek Shore Ct	Litz Roy C Jr Trustee	134-12.00-2714.00	RPO
19970	DE	Ocean View	31863 Creek Shore Ct	Ebbert Timothy J Kathleen B	134-12.00-2713.00	RPO
20723	MD	Laurel	10720 Harding Rd	White Michael E	134-12.00-2712.00	RPO
19970	DE	Ocean View	31859 Creek Shore Ct	Frick Joseph J & Patricia A	134-12.00-2711.00	RPO
21797	MD	Woodbine	15257 Bucks Run Dr	Cornell Jimmie A Jr	134-12.00-2710.00	RPO
19970	DE	Ocean View	31429 River Dr	Kaplan Lawrence A Bonnie I	134-12.00-271.00	RPO
22032	VA	Fairfax	5335 Jennifer Dr	Sotil-Berisso Aldo F	134-12.00-2709.00	RPO
19970	DE	Ocean View	PO Box 1008	Banks Harbor Marina Inc	134-12.00-270.00	RPO
19970	DE	Ocean View	31473 Banks Rd	Conklin Wayne	134-12.00-269.00	RPO
19063	PA	Media	295 East Jefferson St Apt 208	Reardon James P Kathleen C	134-12.00-268.00	RPO
19970	DE	Ocean View	31468 River Drive	Briedis Jason W	134-12.00-267.00	RPO
21042	MD	Ellicott City	10050 Fox Den Road	Delisle Stewart J	134-12.00-266.00	RPO
17042	PA	Lebanon	545 Horseshoe Trail Dr	Arnold Thomas Joseph	134-12.00-265.00	RPO
21050	MD	Forest Hill	1602 East Branch Ct	Owings Ronald K Deborah A	134-12.00-264.00	RPO
19807	DE	Wilmington	133 Dickinson Ln	Bradley John B Trustee	134-12.00-263.00	RPO
19970	DE	Ocean View	31449 Hope St	Berdinka Julius S	134-12.00-261.00	RPO
19970	DE	Ocean View	31459 Banks Rd	Heffernan Bernadette M	134-12.00-260.00	RPO
19970	DE	Ocean View	PO Box 1295	Maeby Charles D Jane G	134-12.00-259.00	RPO
20164	VA	Sterling	113 Applegate Dr	Takagi Diana Marie	134-12.00-258.00	RPO
19970	DE	Ocean View	37342 Main St	Banks Elwood R Jr	134-12.00-257.00	RPO
19970	DE	Ocean View	37342 Main St	Banks Elwood R Jr	134-12.00-256.00	RPO
32162	끈	The Villages	1654 Dogwood Street	Carey Elaine A Revocable Trust	134-12.00-255.00	RPO
19970	DE	Millville	203 Banks Rd	McCabe Margaret C	134-12.00-254.00	RPO
19970	DE	Ocean View	37347 Main St	Hasselo Diane B	134-12.00-247.00	RPO
19970	DE	Ocean View	37359 Main St	Sekscendski Edward S	134-12.00-246.00	RPO
19970	DE	Millville	37367 Main St	Gibbs James D Susan E	134-12.00-245.00	RPO
19970	DE	Ocean View	37379 Main St	O'Neill Robert A Patricia V	134-12.00-244.00	RPO
17026	PA	Fredericksburg	3044 Route 22	Troutman George L & Connie N	134-12.00-243.00	RPO
17724	PA	Canton	15138 Route 414	McRoberts Erica A	134-12.00-242.00	RPO
Zip	State	City	Address	Owner Name	Parcel ID	<b>Designation</b>
			MAR 2 5 2019			

21002		lutherville	20 Eastport Ct	Edrington James G	134-12,00-3633.00	RPO
10070		Ocean View	30661 Peaceful In	Cann Kiijuana L	134-12.00-3632.00	RPO
21176	M	Severna Park	102 Amesbury Ct	Hardesty Scott Stanley	134-12.00-3631.00	RPO
EC.28U	Z	Brick	20 Sandy Point Dr	Kovacs Christopher E	134-12.00-3630.00	RPO
19970		Ocean View	30689 Peaceful Ln	Vaeth Robert A	134-12.00-3629.00	RPO
21228	M	Baltimore	8 Rumford Dr Unit 202	Jeppi James C	134-12.00-3623.00	RPO
08844	Z	Hillsborough	14 Beverly Dr	Ludwig Dean L Meagan A Ludwig	134-12.00-3622.00	RPO
19970	DE	Ocean View	32119 Serenity Ct	Payne Robert H	134-12.00-3621.00	RPO
19390	PA	West Grove	116 Reynolds Ln	Spring James P	134-12.00-3620.00	RPO
19970	DE	Ocean View	30690 Peaceful Ln	Towe Jerome Donald III	134-12.00-3619.00	RPO
19970	DE	Ocean View	30682 Peaceful Ln	Moses Bradford	134-12.00-3618.00	RPO
18411	PA	Clarks Summit	853 Scott Rd	Karnafel Paul V & Barbara Karnafel	134-12.00-3617.00	RPO
19970	DE	Ocean View	30660 Peaceful Ln	McCoy Suzanne K	134-12.00-3616.00	RPO
19971	DE	Rehoboth Beach	20184 Phillips St	Schell Brothers LLC	134-12.00-3615.00	RPO
23188	VA	Williamsburg	3400 Brick Bot Rd	Stafford Felix J	134-12.00-3614.00	RPO
21161	MD	White Hall	2920 Duncan Rd	Newcomer Harry G III	134-12.00-3613.00	RPO
20008	סכ	Washington	2800 Quebec St NW #816	Jordan Christopher Wyatt	134-12.00-3612.00	RPO
19971	DE	Rehoboth Beach	20184 Phillips St	Schell Brothers LLC	134-12.00-3584.00	RPO
32067	P	Orange Park	PO Box 1855	Tac Beacon LLC	134-12.00-3583.00	RPO
32067	FL	Orange Park	PO Box 1855	Tac Beacon LLC	134-12.00-3582.00	RPO
32067	FL	Orange Park	PO Box 1855	Tac Beacon LLC	134-12.00-3581.00	RPO
32067	F	Orange Park	PO Box 1855	Tac Beacon LLC	134-12.00-3580.00	RPO
32067	F	Orange Park	PO Box 1855	Tac Beacon LLC	134-12.00-3579.00	RPO
32067	FL	Orange Park	PO Box 1855	Tac Beacon LLC	134-12.00-3578.00	RPO
32067	FL	Orange Park	PO Box 1855	Tac Beacon LLC	134-12.00-3577.00	RPO
32067	7	Orange Park	PO Box 1855	Tac Beacon LLC	134-12.00-3576.00	RPO
32067	FL	Orange Park	PO Box 1855	Tac Beacon LLC	134-12.00-3575.00	RPO
19970	DE	Ocean View	33467 Heavenly Way	Brock Richard Tyler	134-12.00-3574.00	RPO
21131	MD	Phoenix	8 Deer Oak Ct	Ferro Fernando J	134-12.00-3573.00	RPO
19970	DE	Ocean View	33489 Heavenly Way	Richmond Joseph Carlton	134-12.00-3572.00	RPO
19970	DE	Ocean View	33486 Heavenly Way	Kowalski Stanley A	134-12.00-3571.00	RPO
19970	DE	Ocean View	33480 Heavenly Way	MacDonald Eric A	134-12.00-3570.00	RPO
20016	DC	Washington	4743 Massachusetts Ave NW	Crehan Ann Mary TTEE	134-12.00-3569.00	RPO
20878	MD	Gaithersburg	13529 Scottish Autumn Ln	Hanley Kevin P	134-12.00-3568.00	RPO
11709	ΥN	Bayville	80 Shore Rd	Michel Jan S	134-12.00-3567.00	RPO
19970	DE	Ocean View	33462 Heavenly Way	Mintz Tammy	134-12.00-3566.00	RPO
19971	DE	Rehoboth Beach	20184 Phillips St	Schell Brothers LLC	134-12.00-3565.00	RPO
32067	FL	Orange Park	PO Box 1855	Tac Beacon LLC	134-12.00-3564.00	RPO
32067	P	Orange Park	PO Box 1855	Tac Beacon LLC	134-12.00-3563.00	RPO
32067	F	Orange Park	PO Box 1855	Tac Beacon LLC	134-12.00-3562.00	RPO
32067	P	Orange Park	PO Box 1855	Tac Beacon LLC	134-12.00-3561.00	RPO
19970	DE	Ocean View	201 Central Ave	Ocean View Town of Inc	134-12.00-326.02	RPO
19930	Ē	Bethany Beach	PO Box 181	DeMarie Family LLC & Raymond Book Trustee	134-12.00-326.00	RPO
19970	DE	Ocean View	1 Hickman Ave	Tribbit Matthew Hickman	134-12.00-321.08	RPO
Zip	State		<u>Address</u>	Owner Name		Designation
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			MAR 2 5 2019			
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Ison         Parcel ID         Owner Name         Address         City         Sale         Sale         Sale           1411.00-654.000         Tacter Paul W         Tacter Paul W         Tacter Sale         Mount Any	19970	DR	Millville	31339 Coral Ct	Willey I Robert & Carolyn V	134-8.00-107.00	RPO
Parcel ID         Owner Name         Address         City         State         Z           134-1200-363:00         Boteler Paul W         13215 Manor Dr S         Mount Airy         <	19970	DE	Ocean View	31341 Coral Ct	Van Buren Donald W & Denise A	134-8.00-106.00	RPO
Parcel ID         Owner Name         Address         City         State         Z           134 12.00-3635.00         Berteler Paul W         13215 Mano Dr S         Mount Airy	19970	DE	Ocean View	786 Hickman Lane	McGinnis Michael P	134-12.00-883.00	RPO
Parcel ID         Owner Name         Address         City         Sate         Z           134-1200-363-00         Boteler Paul W         13215 Manor Dr S         Orange Park         Fill         City         Sate         Z         Z         Parcel ID         Kity         Sate         Z         Z         Sate         Z         Sat	21042	MD	Ellicott City	4209 Southfield Rd	Vorel David F Helen P Vorel	134-12.00-882.00	RPO
Parcel ID         Owner Name         City         State         2           134-1200-3635.00         Tac Beacon LLC         13215 Manor Dr.S         MAR 2.6 2019         City         State         2           134-1200-3635.00         Tac Beacon LLC         12018 Manor Dr.S         Manor Dr.S         Orange Park         FL         12           134-1200-3635.00         Tac Beacon LLC         12018 Manor Dr.S         Rehobent Beach         DF         12 </td <td>19970</td> <td>DF.</td> <td>Ocean View</td> <td>790 Hickman Dr</td> <td>Zook Linda S</td> <td>134-12.00-881.00</td> <td>RPO</td>	19970	DF.	Ocean View	790 Hickman Dr	Zook Linda S	134-12.00-881.00	RPO
Parcel ID         Owner Name         Life State         State         Z           134.12.00-3655.00         Boreler Paul W         In Beacon ILC         PO Box 1855         Orange Park         FL         State         Z           134.12.00-3655.00         Tac Beacon ILC         PO Box 1855         Orange Park         FL         FL         State         Z           134.12.00-365.00         Tac Beacon ILC         PO Box 1855         Orange Park         FL	19970	DE	Millville	792 Hickman Dr	Zook William C & Mary L	134-12.00-880.00	RPO
Parcel IDOwner NameAddressCityStateZ134 12.00-3635.00Boreler Paul W1215 Manor Dr.SOrange ParkFLZ134 12.00-3635.00Tac Bearon LLCPO Box 1855Orange ParkFLSZ134 12.00-3635.00Bird Herbert J D787 Hickman DrOrange ParkFLSSZ134 12.00-3635.00Bird Herbert J D787 Hickman DrOrange ParkFLSSZZ134 12.00-365.00Bird Herbert J D787 Hickman DrOcean ViewDEDESZZ<	19970	DE	Ocean View	796 Hickman Dr	Quigley Daniel W	134-12.00-879.00	RPO
Parcel ID         Owner Name         Address         City         State         Z           141-120-363-00         Boteler Paul W         Owner Name         Integration of the state         Polos 1855         Orange Park         FI         Integration of the state         S         Integration of the state         S         Integration of the state         Integration of the state         Integration of the state         S         Integration of the state	19970	DE	Millville	804 Hickman Dr	Volta Michael A Jonette C	134-12.00-878.00	RPO
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Parcel IDOwner NameCityStateZ134-12.00-3634.00Boteler Paul W13215 Manor Dr SMAR 2 5 2019CityStateZ134-12.00-3635.00Fac Beacon LLC13215 Manor Dr SMount AiryMD1215134-12.00-3635.00Schell Brothers LLC20180 Phillips SSOrange ParkFLE134-12.00-866.00Birl Herbert I D20180 Phillips SSOrange ParkFLD134-12.00-866.00Birl Herbert I D787 Hickman DrOcean ViewDEDE134-12.00-886.00Birl Herbert I D787 Hickman DrOcean ViewDEDE134-12.00-886.00Everett Roger W Sonia W50 MCCleav RdFLDDE134-12.00-886.00Everett Roger W Sonia W50 MCCleav RdElkonMDDE134-12.00-870.00Everett Roger W Sonia W50 MCCleav RdElkonMDDE134-12.00-871.00Schast Savi J Schast S17 Compton WayHamilton SqNN134-12.00-872.00Miccauley Michael B & Julie F1223 Foulk RdMiliningtonDEN134-12.00-874.00Colins Daniel803 Hickman DrOcean ViewDEDEDE134-12.00-874.00Colins DanielSullie F1323 Foulk RdMILMILMIL134-12.00-874.00Colins DanielSullie F1323 Foulk RdMiliningtonDEMilinington134-12.00-874.00Colins DanielSullie F1323 Foulk RdMiliningtonDEMilinington<	19970	DE	Millville	805 Hickman Dr	McBride Byron M & Barbara A	134-12.00-875.00	RPO
Parcel ID       Owner Name       Address       City       State       Z         134-12.00-363-00       Boteler Paul W       13215 Manor Dr S       Mount Airy       Mount Airy       MD       Z       Z       Mount Airy       MD       Z	19970	DE	Ocean View	803 Hickman Dr	Collins Daniel	134-12.00-874.00	RPO
Image: Second S	19803	DE	Wilmington	1223 Foulk Rd	McCauley Michael B & Julie F	134-12.00-873.00	RPO
Parcel ID       Owner Name       Address       City       State       Z         144-12.00-363.00       Boteler Paul W       Downer Name       MAR 2.5 (2) (3)       Mount Airy       Mount Airy       Z       Z         134-12.00-363.00       Tac Beacon LLC       PO Box 1855       Orange Park       FL       D       MD       MD       MD       Z       Z       Mount Airy       MD       Z	19970	DE	Ocean View	799 Hickman Dr	Nelson Charles K Barbara S	134-12.00-872.00	RPO
Parcel ID       Owner Name       City       State       Z         144-12.00-363.00       Boteler Paul W       13215 Manor Dr S       Mount Airy       MD       Z         134-12.00-363.00       Boteler Paul W       13215 Manor Dr S       Mount Airy       MD       Z         134-12.00-363.00       Tac Beacon LLC       PO Box 1855       Mount Airy       MD       Z         134-12.00-363.00       Schell Bothers LLC       20184 Phillips St       Grange Park       FL       Z         134-12.00-363.00       Schell Bothers LLC       20184 Phillips St       Orange Park       FL       Z         134-12.00-363.00       Bird Herbert J D       787 Hickman Dr       Orange Park       FL       Z         134-12.00-867.00       Bird Herbert J D       787 Hickman Dr       Ocean View       DE       Z         134-12.00-869.00       Everett Roger W Sonia W       S0 McCleary Rd       Ocean View       DE	19970	DE	Millville	797 Hickman Dr	Sheats Law J Kathryn K Sheats	134-12.00-871.00	RPO
Parcel IDOwner NameLikS 2019LikS 2019 <td>18690</td> <td>Z</td> <td>Hamilton Sq</td> <td>17 Compton Way</td> <td>Zygmunt John M Jr</td> <td>134-12.00-870.00</td> <td>RPO</td>	18690	Z	Hamilton Sq	17 Compton Way	Zygmunt John M Jr	134-12.00-870.00	RPO
Parcel ID       Owner Name       City       State       Z         134-112.00-3634.00       Boteler Paul W       13215 Manor Dr S       Mount Airy       MD       Z         134-12.00-3635.00       Tac Beacon LLC       PO Box 1855       Orange Park       FL       Z       Z         134-12.00-3635.00       Tac Beacon LLC       PO Box 1855       Orange Park       FL       Z       Z         134-12.00-3635.00       Schell Brothers LLC       20184 Phillips St       Mount Airy       MD       Z       Z         134-12.00-3635.00       Schell Brothers LLC       20184 Phillips St       Orange Park       FL       Z       Z         134-12.00-3637.00       Tac Beacon LLC       20184 Phillips St       Orange Park       FL       Z       Z         134-12.00-366.00       Bird Herbert J D       787 Hickman Dr       Orange Park       FL       Z       Z         134-12.00-866.00       Bird Herbert J D       789 Hickman Dr       Ocean View       DE       Z       Z       Z         134-12.00-866.00       Bird Herbert J D       789 Hickman Dr       Ocean View       DE       Z       Z       Z       Z       Z       Z       Z       Z       Z       Z       Z       Z       Z<	21921	MD	Elkton	50 McCleary Rd	Everett Roger W Sonia W	134-12.00-869.00	RPO
Parcel ID       Owner Name       City       State       Z         134-12.00-363-00       Boteler Paul W       13215 Manor Dr S       Mount Airy       MD       Z         134-12.00-363.00       Boteler Paul W       13215 Manor Dr S       Mount Airy       MD       Z       Z         134-12.00-363.00       Tac Beacon LLC       PO Box 185S       Orange Park       FL       Z       Z         134-12.00-363.00       Schell Brothers LLC       PO Box 185S       Orange Park       FL       Z       Z         134-12.00-3637.00       Bird Herbert J D       787 Hirkman Dr       Orange Park       FL       Z       Z         134-12.00-865.00       Bird Herbert J D       787 Hirkman Dr       Ocean View       DE       Z       Z         134-12.00-867.00       Stokes Mary A       789 Hirkman Dr       Ocean View       DE       Z       Z	19707	DE	Hockessin	967 Lee Rd	Amini Manouchehr	134-12.00-868.00	RPO
Parcel ID       Owner Name       City       State       Z         134-12.00-363.00       Boteler Paul W       13215 Manor Dr S       Mount Airy       MD       Z         134-12.00-363.00       Tac Beacon LLC       PO Box 1855       Orange Park       FL       Z         134-12.00-363.00       Schell Brothers LLC       PO Box 1855       Orange Park       FL       Z         134-12.00-363.00       Bird Herbert J D       787 Hickman Dr       Ocean View       DE       Z	19970	D₽	Ocean View	789 Hickman Dr	Stokes Mary A	134-12.00-867.00	RPO
Parcel ID       Owner Name       Address       City       State       Z         134-12.00-3634.00       Boteler Paul W       13215 Manor Dr S       Mount Airy       Mount Airy       MD         134-12.00-3635.00       Tac Beacon LLC       PO Box 1855       Orange Park       FL       <	19970	DE	Ocean View	787 Hickman Dr	Bird Herbert J D	134-12.00-866.00	RPO
Parcel ID       Owner Name       City       State       Z         134-12.00-3634.00       Boteler Paul W       13215 Manor Dr S       Mount Airy       MD       Z         134-12.00-3636.00       For Beacon LLC       PO Box 1855       Orange Park       FL       FL       E         134-12.00-3636.00       Schell Brothers LLC       20184 Phillips St       Pro Box 1855       Drange Park       FL       D	32067	FL	Orange Park	PO Box 1855	Tac Beacon LLC	134-12.00-3637.00	RPO
Parcel ID       Owner Name       MAR & 5 2019       MAR & 5 2019         134-12.00-363.00       Boteler Paul W       Owner Name       State       Z         134-12.00-363.00       Tac Beacon LLC       PO Box 1855       Mount Airy       MD       Z	19971	D₽	Rehoboth Beach	20184 Phillips St	Schell Brothers LLC	134-12.00-3636.00	RPO
International and the second secon	32067	FL	Orange Park	PO Box 1855	Tac Beacon LLC	134-12.00-3635.00	RPO
ParcelID Owner Name City State	21771	MD	Mount Airy	13215 Manor Dr S	Boteler Paul W	134-12.00-3634.00	RPO
MAR 2 5 2019	Zip	State	City	Address		Parcel ID	Designation
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Attachment 11 Copy of Right-of-Way Agreement



17982

### BK: 4707 PG: 89

Tax Parcel No 134-12.00-170.00

Prepared By Defmarva Power & Light Company & Return to. Right-of Way Department PO Box 9239, I-95 & Rt. 273 Newark, DE 19714-9239

#### UTILITY EASEMENT AGREEMENT

THIS EASEMENT AGREEMENT, made this <u>19</u> day of <u>mucky</u> <u>30/7</u> between TAC BEACON LLC ("Grantor") and DELMARVA POWER & LIGHT COMPANY, a corporation of the State of Delaware and the Commonwealth of Virginia ("Delmarva").

### WITNESSETH:

WHEREAS, Grantor Is the owner of land located in the State/Commonwealth of DELAWARE, the County of SUSSEX, which land abuts on CLUBHOUSE RD, OCEAN VIEW BALTIMORE HUNDRED, which is recorded in (Liber) 4354, (Folio) 301.

For and in consideration of the payment by Delmarva of the sum of one dollar (\$1.00) and other valuable consideration, the receipt of which is hereby acknowledged. Grantor grants to Delmarva a perpetual easement and right of way and agrees as follows.

- 1 Delmarva shall have the right to install, operate, maintain, add to, extend, relocate and remove its ELECTRIC (X), GAS (). COMMUNICATION (), and other appropriate facilities, and accessories and appurtenances thereto to extend Delmarva's systems and to provide services to Delmarva's service areas; including any other cables, conduits, fibre optic cables and wires on, over, under and across Grantor's land which may become necessary to provide such services
- 2 The facilities installed pursuant to this agreement shall remain the property of Delmarva and alla maintenance, repairs and removals of said facilities shall be the responsibility of Delmarva
- Delmarva shall have the right to trim, remove, and/or otherwise maintain all trees and underbrush control located 15 feet on each side of the centerline of Delmarva's facilities
- 4 Deimerva shall have the rights of ingress, egress and regress to and over Grantor's land as necessary for the enjoyment of the rights grented herein
- 5 Granter agrees not to place any improvements, including trees or other foliage, within 10 feet of the opening side of any enclosed equipment installed under the terms of this Agreement and shall not construct any structures or improvements over or under the utility facilities permitted by this Agreement
- Grantor shall have the right to use the land covered by this Agreement for any lawful purpose not inconsistent with or in contravention of the rights of Delmarva.
- Grantor covenants that it is seized of and has the right to convey the foregoing easement, rights and privileges, agrees that Delmarva shall have quiet and peaceable possession, use and enjoyment of the aforesaid easement, rights and privileges.
- 8 Grantor agrees that this Utility Easement Agreement shall be binding upon and inure to the benefit of Grantor and Delmarva and their respective heirs, personal representatives, administrators, successors and assigns.

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- Grantor hereby certifies that the actual monetary consideration paid for this Agreement Is \$1.00.
- 10 Delmarva's utility facilities installed hereunder may, without further consideration, be relocated to conform to new or reestablished highway limits.

All property and property rights acquired by Delmarva are subject to its existing mortgage. The interest in property granted to Delmarva herein is subject to the lien of the Indenture of Mortgage and Deed of Trust, datad as of October 1, 1943, as amended and supplemented, which document is now between Delmarva Power & Light Company and The Bank of New York Trust Company, N.A., as Successor Trustee to Chemical Bank. This paragraph affects only the property and/or property rights granted to Delmarva herein and does not affect any property rights of Grantor.

As agent on behalf of Delmarva, I certify that this document was prepared by Delmarva.

Name: DOUGLAS M. HUDSON Thio: ENGINEERING FILLDMAN

WITNESS our hands and seals the day and year aforesaid

GRANTOR: BEAGEN WITNESS By: (SEAL) Kober Print Name M ANAGE 1 ide Recorder of Deeds Delaware STATE OR COMMONWEALTH OF Scott Dailey May 15,2017 09:04A 155 Sussex County COUNTY OF Doc. Surcharse Paid 14 day of 017, personally came before me. BE IT REMEMBERED, That on the nucitu a notary public, the within named Grantor, Robert Sipple perty(les) to this indenture and known to me personally to be such, and acknowledged said Agreement to be his/her act of said individual(s) or the act and deed of the corporation or partnership for which he/she signed My commission expires: Print Name Notary Notary Public SeaVStomp Here MY COMMISSION EXPIRES 4-20-2018 **Right-of Way Department** Return to 5 PO Box 9239, 1-95 & Rt. 273 Newark, DE 19714 9239 RFC 15,2017 1αч DIVISION ÔF SUSSEX

## FOR DELMARVA USE ONLY

Secured by:D.HUDSON Address: CLUBHOUSE RD Map Number: 12.00 Development: SOLITUDES

Job Order Number: 6147906 District/Hundred: 134/BALTIMORE Parcel Number: 170,00

Coordinates Covered: 61018/00037



86 <b>1</b>	ex1657 me.1399	REAL SST 15		
	UTILITY EASEMENT A	GREEMENT JUN 21 1989		
THIS EASE	MENT AGREEMENT, made this	day of the		
Delaware and the	DELMARVA POWER & LIGHT CON Commonwealth of Virginia (Delmoniti	PANY, a corporation of the State of		
	Commonwealth of Virginia ("Delmarva"),			
*	WITNESSETH:			
WHEREAS			¥ 1	
Delaware	Grantor is the owner of land locat	ted in the State/Commonwealth of	1 i	
on _Daisey Lan	ling Road.	, which land abuts		
Ocean View	Delaware	(Street, Highway or County Road), Town, City, Subdivision or Hundred),	- 11	
the land having be	en granted to Grantor by the Estate of	of Lillian Evans	F 1	
				1
For call	October 20, 1988 , which is recorded	in (Liber) 1605 (Folio) 61 .		-
other valuable co Deimarva a perpeti	isideration of the payment by Delmarva isideration, the receipt of which is here al easement and agrees as follows:	of the sum of one dollar (\$1.00) and by acknowledged, Grantor grants to		
Grantor provide premises and privi in the us have the located Furtherm over Gran	ove its ELECTRIC [], GAS [], commi- the necessary accessories and appurtenars a land for the purpose of estending Del utility services to the premises of Gra and users. Delmarva shall have the right to reges granted herein and Grantor shall have to f the facilities installed pursuant to thi right to trim, remove and/or otherwise ma 15 feet on each side of the centerlii ore. Delmarva shall have the rights of ing tor's land as required for the enjoyment of	Inters, on, under, over and across Imarva's utility system and to nior and 10 other residences, to apportion the casement rights e no right to participate or share is Agreement. Delmarva shall wintain all trees and underbrush ne of Delmarva's facilities, ress, egress and regress to and f the rights granted herein,		ž
the right inconsiste	grees not to place any improvements, inc fect of the opening side of any enclosed his Agreement and shall not construct an der the utility facilities permitted by this A o use the land covered by this Agreemen at with or in contravention of the rights of	sy structures or improvements by comment. Grantor shall have in for any lawful purpose not Delmarva.		k si
privileges: upon and i	venants that it is scized of and has the rights and privileges; agrees that Del possession, use and enjoyment of the af and agrees that this entire utility easemen ture to the benefit of Grantor and Delmar presentatives, administrators, successors a	oresaid easement, rights and agreement shall be binding		
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100 1657 Mil-1 59 EAL N.L. 4. Grantor hereby certifies that the actual monetary consideration paid for this Agreement is \$ 1.58 WITNESS: INDIVIDUAL GRANTOR: (SEAL) (SEAL) (SEAL) 11 CORPORATE OR PARTNERSHIP ORAN FOR: Forceido Group, L.P. BY: Sacher (SEAL) TITLE eral Partner STATE OR COMMONWEALTH OF Delaware ) SS COUNTY OF Sussex 5 BE IT REMEMBERED, That on the 22nd day of May , personally came before me, a notary public, the within named Grantor, 19 89 J. Joseph Tanacy, General Partner party(ies) to this indenture and known to me personally to be such, and acknowledged sold Agreement to be his/her act and deed or the act and deed of the corporation or partnership for which he/she signed. WITNESS our hands the day and year aforesaid. My commission expires: August 28, '89 Notary Public FOR DELMARVA USE ONLY . Secured By: Account Number: 176501. 637671 Tax District Number: 113391 Parcel Number: Map Number: 11-998-1 614-596-2 District/Hundred: M. Coordinates Covered: 99962 13351 61355 91.0 1559 9 61368 99926 997 13 939 1939-111-05-111-05-12 SUSSEX LOUNTY now MAR 2 5 2019

19924

# BOOK 1605 (AJE 61

THIS DEED, Made this 15th day of October, in the year of our LORD one thousand nine hundred and eighty-eight;

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BETWEEN JAMES E. (JAY) PARKER, JERALD W. (JERRY) PARKER, SCOTT PIPER, STEVEN W. PIPER, RUTH E. PARKER, GRACE W. FIPER, KATHRYN J. (KAY) WEST, Heirs of the Estate of LILLIAN D. EVANS, Decessed, and JAMES E. PARKER and SCOTT PIPER, REsolutors of the Estate of LILLIAN D. EVANS, Decessed, of 1505 Prince Street, Alexandria, VA 22314, parties of the first part, "GRANTOR",

#### - A N D -

FORESIDE GROUP, L. P., a Delaware Limited Partnership, c/o J. Joseph Tansey, Century 21/Tansey and Company, P. O. Box 1449, Bethany Beach, DE 19930, party of the second part, "GRANTEE".

WITNESSETH, That the said parties of the first part, for and in consideration of the sum of FIVE HUNDRED FIFTY THOUSAND & 00/109 DOLLARS (\$556,000.00) lawful money of the United States of America, the receipt whereof is hereby acknowledged, hereby grant and convey unto the said party of the second part:

ALL THAT CERTAIN Lot, piece and parcel of land situate, lying and being in the Town of Ocean View, Baltimore Hundred, Sussex County, Delaware, and shown on a Plot recorded October 11th, 1988, in the Office of the Recorder of Deeds in and for Sussex County, at Georgetown, Delaware, in Plot Bock 40, at Page 230, as FORRSIDE COMMONS, as surveyed by Land Tech Inc., Registered Surveyors, on August 15th, 1988, more particularly described as follows, to with BEGINNING at a concrete marker, said concrete marker located on the Southwestern right-of-way of Daisey's Lending Road; thence turning and running by and along the Southwestern right-of-way of the 30 foot right-of-way known as Daisey's Landing Road, North 69° 09' 24" West 1189 feet, ±, to an iron pipe; said iron pipe located at the high water mark of White's Creek; thence with the meanderings of the high water mark of White's Creek; thence with the meanderings of the high water mark of White's Creek the following courses and distances: South 18° 52' 41" West 73.27 feet to an iron pipe; thence South 25° 14' 26" West 151.35 feet to an iron pipe; thence South 50° 49' 04" West 38.70 feet to an iron pipe; thence South 51° 52' 10° West 74.75 feet to an iron pipe; thence South 13° 26' 50" West 52.16 feet to an iron pipe; thence North 77° 18' 49" West 38.70 feet to an iron pipe; South 51° 24' 10" West 41.51 feet to an iron pipe; thence South 11° 15' 51" West 24.48 feet to an iron pipe; thence South 61° 16' 14" East 18.87 feet to an iron LAW OFFICIOF

LAW OFFICES OF MAULL & MAULL, P.A. EAST MARKET STREET P.G. BOX 590

ORGETOWN, DELAWARE 19947-4; 203-436-7783 SOON 1605 PAGE 62

plpe; thence continuing \$3.0 feet along the same course to an iron pipe; thence South  $87^{\circ}$  17' 50" East, thru a point to an iron pipe, 172.86 feet; thence North  $87^{\circ}$  39' 22" East 31.0 feet to an iron pipe; thence North 84° 55' 40" East 55.02 feet to an iron pipe; thence South 45° 03' 33" East 25.0 feet to an iron pipe; thence continuing along the same course 57.54 feet to an iron pipe; thence South 57° 58' 32" East 44.93 feet to an iron pipe; thence South 15° 28' 26" East 23.98 feet to an iron pipe; thence turning and running by and along the common boundary line between these lands and lands now or formerly of John T. West, Jr., North 45° 01' 58" East 103 feet;  $\pm$ , to a concrete marker; thence turning and running by and along the common boudary line between these lands and lands now or formerly of John T. West, Jr. and of Jean W. Tribbitt, South 89° 29' 30" East 852.57 feet to a point; thence continuing along the same course 21.60 feet to a concrete monument; thence turning and running North 20° 30' 40" East 342.29 feet 10.39 ACRES.

BEING the same land conveyed to C. Elliott Evans and Lillian Evans, his wife, by Deed of George M. Ellis and Elizabeth W. Ellis, his wife, dated the 1st day of September, 1950, and of record in the Office of the Recorder of Deeds in and for Sussex County, at Georgetown, Delaware, in Deed Book 398, at Page 135. THE SAID Charles Elliott Evans died on the 2nd day of March, 1987, and said property descended to Lillian Evans as the surviving tenant. THE SAID Lillian D. Evans died on the 10th day of August, 1986, under the Third Item of her Last Will and Testament, dated the 14th day of August, 1985, and of record in the Office of the Register of Wills in and for Sussex County, at Georgetown, Delaware, in Will Book 155, at Page 123, ahe devised the above property to Jay Parker, Jerry Parker, Scott Piper, Stephen Piper, Ruth Parker, Grace Piper and Kay West, the above Grantors.

SUBJECT to the building restriction line and the "404" wetlands line, as well as all easements, subservice and central water systems as more fully set forth in the Plot of record in Plot Book 40, at Page 230.

THE SAID JAMES E. PARKER executes this Deed as Attorney in Fact under Powers of Attorney attached hereto and made a part hereof.

> LAW OFFICES OF MAULL & MAULL, P.A. EAST MARKET STREET P.O. BOX 396 OBOGETOWN, DELAWARE (1941-4998 302-456-1993

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500H 1605 mg 63 I, hands and seals, the day and year aforesaid. WITNESS Executor TTNESS PARKER, Aftorney in Pact SCHIT PIPER, Executor (BRAL) WITHESS ARKER DEALS A WITNES ASEAL) WITHES ct PIPER 2 i. Ep WITNESS a contrata PIPER Aleger WITNESS €. Pact ER ACT WITNESS WITNESS THEY'S J. (EAY) WEST act LAW OFFICES OF MAULL & MAULL, P.A. SART MARKET STREET P.O. BOX 598 WK DELAWARE 199474 348-454-7343 1 N/ 1L MAR 2 5 2019 W. Buch

# SOCK 1605 MAR 64

STATE OF DELAWARE

BE IT REMEMBERED, That on this 15th day of October, in the year of our LORD one thousand nine hundred and eighty-eight, personally came before me, the Subscriber, a Notary Public in and for the State and County aforesaid, JAMES E. (JAY) PAREER, individually, Executor of the Estate of Lillian D. Evans, and Attorney in Fact for Jeraid W. (Jerry) Parker, for Scott Piper, for Steven W. Piper, for Ruth E. Parker, for Grace W. Piper and for Kathryn J. (Kay) West, parties to this indenture, known to me personally to be such, and acknowledged this indenture to be their act and deed.

> Charlene 7 NOTARY

GIVEN under my hand and seal of Office, the day and year aforesaid.

LAW OPPICES OF MAULL & MAULL, P.A. BAET MARGET STREET P.O. BOX 500 JETOWA, DELAWARE 100 JETOWA, DELAWARE 100 JETOWA, DELAWARE 100

My Commission Expires: 4/16/89

PURCHASERS REPORT MADE THIS DATE وحيراه

OCT 21 1988

ASSESSMENT DIVISION

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SOCK 1605 PAG: 65 GENERAL POWER OF ATTORNEY KNOW ALL MEN BY THESE PRESENTS, that I. \_\_\_\_\_ Jerald W. Parker of the city of Belmont of James E. Parker reposing special trust and confidence in ... D. C. Washington d w County of \_\_\_\_. Sume of \_\_\_\_ have made, constituted and appointed, and by these presents do make, constitute and appoint the said .... James E. Parker obligation whatsoever that I now have or may hereafter acquire, relating to any person, matter, transaction or property, real or THE REAL PROPERTY OF personal, tangible or intangible, now owned or hereafter acquired by me. I grant to my said attorney full power and authority to do and perform all and every act necessary in exercising any of the powers granted herein as fully as I might do if personally present, with full power of revocation, hereby ratifying and confirming all that said attorney shall lawfully do or cause to be done by virtue of this Power of Attorney. ""This Power of Attorney shall not be affected by disability of the principal. \*\* This Power of Attorney shall become effective upon the disability of the principal. EXECUTED this 8 day of October Jaraid W. Parker STATE OF Calify County of Song-Martine The foregoing instrument was acknowledged before me this 19 88 . by Janzed, W barker 8 day of Qet My commission expires 6.4% . 19 🎜 🐘 Witness my hand and official seal. OFFICIAL SEAL RUSSELESTEP NOTARY FUBLIC - CALIFORMA COUNTY OF SAN MATED M. Commention supires Jane 4, 1990 nd. CD 88214--- (383) 383-4 ни 😡 SOLE W. Only Ave., Labo

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POI	WER OF ATTORNEY (REAL ESTATE)	
KNOW ALL MEN BY THESE PRESENT	1 6	
do make, constitute and appointJames 1		
County of Washington	D.C.	
	ame, place and stead for my sole use and benefit to grant, bargain, sell,	
	ale or purchase of the following described real estate situate in the County	
	DElaware	
62 Daisey Road. Ocean V:		
II IUGHTIEIGG ON TAX MAD #1	consisting of 9.95 acres more or less - 34- 12, Parcel 322 located on Daisey , Baltimore Hundred, Susex County, Delaware,	(
every kind and nature, including, but not limited and conditions as my said attorney may deem ne estate. My said attorney shall have full power and or conveyance of said real estate, with full power lawfully do or cause to be done by virtue of this "This Power of Attorney shall nor be affect "This Power of Attorney shall become affe	setive-upon-the-disability-of the principal- y expire by its own terms upon completion of the limited purpose set forth to dec. 19-88 PRINCIPAL sa. Scott Piper ted before me this <u>5-2k</u> day of <u>October</u> , the Principal. My Commission expires December 19, 1990 10075 Hay, 285 Sta. C-203	
Winess my hund and official seat. By commission expires: Since each of both the winding to fact.	Bradied Pall Aleg. 323 W GB Ave . Lakens ed. CU 00114-(301) 233-6768 647 (1	

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	D. C.
	ne, place and stead for my sole use and benefit to grant, bargain, sell,
	e or purchase of the following described real estate situate in the County
62 Daisey Road Landing	, State of, to wit:
II Identified on Tax Map #1	consisting of 9.95 acres, more or less, - 34- 12, Parcel 322 located on Daisey Baltimore Hundred, Sussex County, Delawa
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every kind and nature, including, but not limited to and conditions as my said attorney may deem nece estate. My said attorney shall have full power and au or conveyance of said real estate, with full power of lawfully do or cause to be done by virtue of this P "This Power of Attorney shall not be affected "This Power of Attorney shall not be affected "This Power of Attorney shall become effect	Appropriate disability of the principal. Appropriate by its own terms upon completion of the limited purpose set forth actober
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do make, constitute and appoint	Π.	с.	, of the	•.
couldy of	, State of		, to act as	
my true and inwful attorney for me and				1.000
convey, purchase, encumber or contract				y.
ofSUBBEX 62 Daisey Road,	Ocean View.	nettagie.		
identified on Tax N	parcel consisting of Lap #1 - 34 - 12, E L, Ocean View, Baltin	Parcel 322 located o	on III	
and to make, execute, acknowledge and every kind and nature, including, but n and conditions as my said attorney may estate. My said attorney shall have full or conveyance of said real estate, with i lawfully do or cause to be done by viri "This Power of Attorney shall no "This Power of Attorney shall no "This Power of Attorney shall sut	ot limited to, the sale and loan closi deem necessary and convenient to ower and authority to do and perform ull power of revocation, hereby ratif	eds of Trust, and other instruments og documents and statements, upp accomplish such sale or conveyanc n all acts necessary to be done to co fying and confirming all that said a se powers contained herein. incipal. if-the-principal	in writing of wn such terms to of said real wrplete a sale sittorney shall	
above.				1
a		6.85	7, .	1
STATE OFColorado	1	PRINCIPAL Ruth E. Parker	in i	4
COUNTY OF _Jefferson			2	]
The foregoing instrument was ach	nowledged before me this	4 day of Deta	he Principal.	4
Within my hand and official seal	Marilou 2532 50.	Graveley Yarrow St. , co 80227		
*Sigle billet or both according to fact.				
. 34R. Rev. 4-86. POWER OF ATTORNEY (BEAL	COTATE: Bradford Publishing, 5623 W. 6th Art	r:: Laboward, CO 00214-(103) 233-6980	487 🚱	1
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SOON 1605 MGE 69 POWER OF ATTORNEY (REAL ESTATE) KNOW ALL MEN BY THESE PRESENTS, that I, Grace W. Piber of the County of \_\_\_\_\_ Jefferson \_\_\_\_ Since of Calarada do make, constitute and appoint \_\_\_\_\_\_\_ James\_ E. Parker of the County of WashingTon \_, State of \_\_\_\_\_. my true and inwful attorney for me and in my name, place and stead for my sole use and benefit to grant, bargain, sell, convey, purchase, encumber or contract for the sale or purchase of the following described real exists situate in the County ., to wil: 1.1.1. A. My said altorney-in-fact is hereby authorized and empowered to collect such monies as may become due from the sale, and to make, execute, acknowledge and deliver contracts for sale, deeds, Deeds of Thust, and other instruments in writing of every kind and nature, including, but not limited to, the sale and loan closing documents and statements, upon such terms and conditions as my said stomey may deem necessary and convenient to accomplish such sale or conveyance of said real estate. My said attorney shall have full power and authority to do and perform all acts necessary to be done to complete a sale or conveyance of said real estate, with full power of revocation, hereby ratifying and confirming all that said attorney shall inwfully do or cause to be done by virtue of this Power of Attorney and the powers contained herein. "This Prover of Attorney shall not be effected by disability of the principal." \*This Duries of Attorney shall become effective upon the disability of the principal. \*This Power of Attorney shall automatically expire by its own terms upon completion of the limited purpose set forth above. EXECUTED this 5 they of October - 19 TS. Beacht. STATE OF \_ Color D. COUNTY OF JE FFE + SOR The foregoing instrument was acknowledged before ma 5th day of Octobar the Principal. Witness my hand and official i My commission expires: ion Expires 17,1009 2628 8 O BO222 er or hoth acc 41 (d)

SOOK 1605 -M. 70 POWER OF ATTORNEY (REAL ESTATE) KNOW ALL MEN BY THESE PRESENTS, that I, KATHRYN J. WEST of the County of SEFERSON PLORADO State of JAMES do make, constitute and appoint \_ ARKAR of the MASKMATON County of \_\_\_\_\_ State of my true and lawful attorney for me and in my name, place and stead for my sole use and benefit to grant, bargain, sell, convey, purchase, encumber or contract for the sale or purchase of the following described real estate situate in the County or\_JUSSEX DELANARE 62 DAISEV KO CEAN VIEW all that 9.95 actin more orless idente 34-12 Parcel # 322 located on. Rd. auna fied 3 altinore stundred the della ver Guity 0 My said attorney-in-fact is hereby authorized and empowered to collect such monies as may become due from the sale, and to make, execute, acknowledge and deliver contracts for sale, deeds, Deeds of Thust, and other instruments in writing of ever gkind and nature, including, but not limited to, the sale and loan closing documents and statements, upon such terms PUTUR SEAS ADORT AAOE TEIS DATE and conditions as my said attorney may deem necessary and convenient to accomplish such sale or conveyance of said real estute. My said attorney shall have full power and authorisy to do and perform all acts necessary to be done to complete a sale Sor compance of suid real estate, with full power of revocation, hereby rutifying and confirming all that said attorney shall the power of attorney and the powers contained herein. 21 • This Power of Attorney shall not be affected by disability of the principal. • This Power of Attorney shall become effective upon the disability of the principal. 001 This Power of Attorney shall automatically expire by its own terms upon completion of the limited purpose set forth above. EXECUTED this 300 day of Octobar Thour STATE OF COLORIA COUNTY OF Sefferson day of Octoin 3.1 The foregoing instrument was acknowledged before me this 19 M. by Mathematica J. West the Principal. My vormal von zi prine de My Commission Express 4/9/89 C) RUSSELL HOL 7590 W. Collas Lakewood, Colorado 80215 Kendell NUSSELL TACK THE THREE A YOR PART 1353 OCT 20 PH 3: 12 Na. 34R. Rev. 4-84. PUMAR IN ATTORNEY IREAL ESTATE: Boothed Part and Start and A. P. Lint al, CO 40214-(30) 335400 нл (G) MAR 2 5 2019

Attachment 12 Frac-Out Contingency Plan



Tidal Wetlands License No.\_\_\_\_\_ DNREC Permit No.\_\_\_\_\_ FRAC-OUT CONTINGENCY PLAN Proposed Delmarva Power Distribution Line Daisey Ave and Peaceful Lane

**CONDUIT O.D. SIZE:** 4x4" inch HDPE **ESTIMATED BORE SIZE:** 16 inches

### HORIZONTAL DIRECTIONAL DRILLING beneath the <u>Whites Creek</u> Body of water/wetland <u>Sussex County, Ocean View, DE</u>

### 1.0 Purpose

This Frac-Out Contingency Plan is to provide assurance of adequate monitoring, detection, containment and cleanup for potential discharge of drilling fluid or other materials (referred to as an "inadvertent return" or "frac-out") resulting from the horizontal directional drilling (HDD) crossing of <u>Whites Creek</u> authorized by Delaware Natural Resources and Environmental Control (DNREC), body of water/wetland provided no temporary or permanent impacts occur to the creek.

Licensee:			Delma	arva Power & I	ight Company (DPL)
Design Engineer			DPL		
Independent Mc	onitoring Contrac	tor (IMC):	Sovere	eign Inc.	王服任王府王国
HDD Contractor lease see below	for a list of perso	onnel contacts:		12	MAR 2 5 2019
Name	Company	Role		Phone	Email
Grant Parker	DPL	Environmental Permitti	ng	(443) 365-4553	Grant.parker@delmarva.com
Thomas Brady	DPL	Project Engineer – Mills	boro Dist.	(302) 934-3354	Thomas.brady3@exeloncorp.com
	DNREC	Wetlands Reviewer			

### 2.0 Best Practices

DPL and their HDD Contractor (contractor), shall follow the best management practices contained in Horizontal *Directional Drill Good Practices Guidelines* by HDD Consortium, David Bennett, PhD, Samuel Ariaratnam, PhD, & Casey E. Como (2008).

### 3.0 Pre-Construction

Before construction begins:

- 3.1 DPL shall conduct a preconstruction meeting. DPL shall include the following representatives in a notice of the preconstruction meeting at least two weeks before the meeting is to be held:
  - HDD Contractor:
  - Design Engineer: DPL
  - Environmental: DPL
  - The local ESC Authority, if applicable

### 4.0 Construction

During construction:

- 4.1 The HDD Contractor shall perform continuous visual monitoring of the drilling route and surrounding area during all HDD operations and shall make and retain daily inspection notes.
- 4.2 The HDD Contractor shall keep detailed notes to include:
  - Volume of drilling material used and recovered
  - Method of material disposal
  - Depth of bore below the regulated water body or wetland bottom
  - Daily average drilling pressures and any notable spikes or deviations
  - Daily bore or ream size and distance of progression

- Remove drilling fluids at a rate sufficient to maintain containment of the frac-out during all drilling operations.
- 5.3 If frac-out is in a **Nontidal Wetland location** (including 100-foot non-tidal wetland Buffer/riparian buffer), the DPL and its contractor shall:
  - Suspend forward drilling and promptly notify those indicated in Section 1.0.
  - Evaluate frac-out to determine the appropriate containment and cleanup measures. The Licensee shall consult with the DNREC Wetlands Reviewer concerning the evaluation and proposed cleanup measures as soon as possible, and take appropriate, immediate action to stop and contain the frac-out.
  - Implement appropriate cleanup measures to contain and remove frac-out drilling fluid to the extent practicable. Appropriate cleanup measures are determined by the specific circumstances of the frac-out and may include, but are not limited to:
    - Removing the drilling fluid by hand if efforts to contain and remove the drilling fluid with equipment will result in further disturbance by equipment and personnel.
    - Diluting the drilling fluid with fresh water, allowing the fluid to dry and dissipate naturally, or a combination of both, if hand removal is not possible.
    - Using small collection sump pumps (less than 5 cubic yards) to remove the fluid, if the amount of the released drilling fluid exceeds that which can be contained with hand-placed barriers.
    - > If the amount of the slurry exceeds that which can be contained and collected using small sumps, drilling operations will be suspended until the frac-out can be brought under control.
  - Store removed drilling fluid in a temporary holding tank or other suitable structure, out of the wetland area and wetland buffer pending reuse or disposal.
  - Evaluate current drill profile (e.g., drill pressures, pump volume rates, drilling mud consistency) to identify methods to prevent further frac-out events.
  - Resume drilling only when evaluation, regulatory agency coordination, and cleanup are complete and prevention measures are in place.



- 5.4 If frac-out is at an **In-Waterbody location**, the Licensee shall:
  - Suspend forward drilling and promptly notify those indicated in Section 1.0.
  - Evaluate frac-out to determine the most appropriate cleanup measures, including if structures are needed to contain the plume. The Licensee shall consult with DNREC Wetlands Reviewer concerning the evaluation and proposed cleanup measures as soon as possible, and take appropriate, immediate action to stop and contain the frac-out.

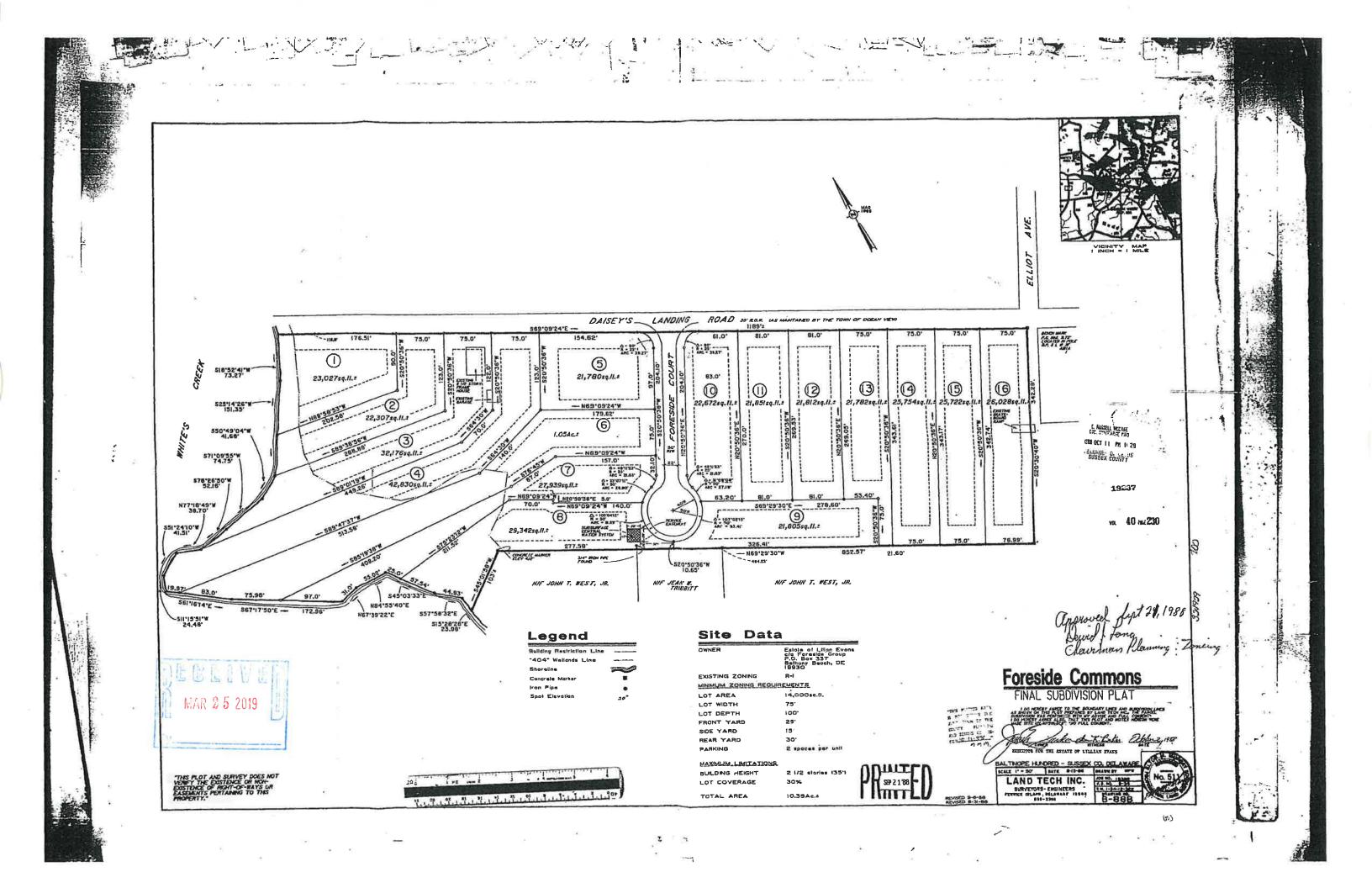
4.3 The following containment materials must be available at the HDD crossing location and adequately designed for the specific project; including but not limited to:

Material	Required items are indicated below
hay bales	
silt fence	
plastic sheeting	
turbidity barriers: 50 linear feet	$\boxtimes$
turbidity curtain height: per current stream depth	$\boxtimes$
shovels, pails	$\boxtimes$
push brooms	$\boxtimes$
squeegees	$\boxtimes$
pumps and sufficient hose	$\boxtimes$
mud storage tanks	$\boxtimes$
boat(s): on call with a required response time of less than 45 minutes.	
vacuum truck on 24-hour call	
generator with light tower	
other 1: sandbags	
other 2:	
other 3:	

### 5.0 Response to Frac-Out

A frac-out is a discharge of drilling fluid or other materials. If a frac-out is observed and has impacted, or has the potential to impact, federally or State regulated waters or wetlands, DPL and its contractor is responsible for following this Frac-Out Contingency Plan. Specifically, DPL and its contractor:

- 5.1 Assess the frac-out to determine the amount of drilling fluid released and the potential for the frac-out to reach regulated waters or wetlands.
- 5.2 If frac-out is at an **Upland location**, the contractor's HDD crew shall:
  - Promptly notify HDD Contractor's on-site supervisor, DPL Design Engineer, and DPL Environmental.
  - Immediately suspend drilling operation until containment is in place, if frac-out cannot be controlled.
  - Evaluate frac-out to determine the most appropriate cleanup measures, including if containment structures are needed.
  - Implement appropriate cleanup measures to contain and remove frac-out drilling fluid to the extent practicable.
  - Depending on volume of drilling fluid lost, remove the fluid by vacuum truck and/or shovel. The IMC may determine that small amounts are unrecoverable.



- Implement appropriate cleanup measures to contain and remove frac-out drilling fluid to the extent practicable. Appropriate cleanup measures are determined by the specific circumstances of the frac-out and may include, but are not limited to:
  - > Pump or vacuum truck,
  - ➤ Hand-placed containment recovery,
  - > Silt curtains, turbidity barriers, and similar measures.
- Store removed drilling fluid in a temporary holding tank or other suitable structure, out of the wetland area and wetland buffer pending reuse or disposal.
- Evaluate current drill profile (e.g., drill pressures, pump volume rates, drilling mud consistency) to identify methods to prevent further frac-out events.
- Resume drilling *only* when evaluation, regulatory agency coordination, and cleanup are complete and prevention measures are in place.

### 6.0 Cleanup Guidelines

- Hand cleaning means using shovels, buckets, soft-bristled brooms or other hand items included in the material list, without causing damage to vegetation. Fresh water washes will be employed if deemed beneficial and feasible.
- Containment structures (turbidity curtains, booms, or other) must be pumped out and the ground surface scraped to bare topsoil without causing undue loss of topsoil or ancillary damage to existing and adjacent vegetation.
- Material will be collected in containers for temporary storage prior to removal from the site.
- Potential for a secondary impact from the clean-up process is to be evaluated and clean-up activities terminated if physical damage to the site may exceed the benefits of clean-up activities.
- The need to restore disturbances to nontidal and tidal wetlands or waters will be determined in consultation with DPL Environmental and DNREC.

### 7.0 Close-Out Procedures

After the drilling fluid has been contained and removed, DPL and its contractor shall:

7.1 Recycle or dispose of the removed drilling fluid at an authorized upland location or commercial disposal facility.

Note: Recovered drilling mud may not be deposited in waters of the State, streams, water bodies, or storm drains.

- 7.2 Remove all containment structures and materials unless otherwise specified by the Design Engineer with approval from the appropriate regulatory agencies.
- 7.3 Consult with the DPL Environmental, USACE and DNREC concerning restoration.

Note: There may be a need for additional Federal, State, County or Municipality authorizations or approvals associated with the aforementioned information. This guidance is not meant to replace or substitute for any other applicable regulations or requirements.

By signing below, I certify that I have read this document and that I know and understand the meaning and intent of this Frac-Out Contingency Plan, and that in the event of a frac-out, I agree to follow this plan.

Signature	Company	MAR 2 5 2019
Printed Name	Date	