

# VINEYARD MID-ATLANTIC

## CONSTRUCTION AND OPERATIONS PLAN VOLUME I APPENDIX

JANUARY 2025

PREPARED BY:

**Epsilon**  
ASSOCIATES INC.

SUBMITTED BY:

VINEYARD MID-ATLANTIC LLC

VINEYARD  
MID-ATLANTIC

VINEYARD  OFFSHORE

PUBLIC VERSION

# Vineyard Mid-Atlantic COP

## Appendix I-H Section 404 of the Clean Water Act Information

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Prepared by:  
Vineyard Offshore

Prepared for:  
Vineyard Mid-Atlantic LLC



**January 2025**

Revision	Date	Description
0	November 2024	Initial submission.
0	January 2025	Resubmitted without revisions.

## **Appendix I-H Section 404 of the Clean Water Act Information**

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Vineyard Mid-Atlantic has prepared preliminary Section 404 of the Clean Water Act information, in accordance with the Bureau of Ocean Energy Management's (BOEM) Notice of Intent (NOI) checklist. The information required includes an initial comparative evaluation of the proposed action and alternatives. The evaluation is to include sufficient pre-application quantitative and qualitative information for dredged or fill material analysis under *40 C.F.R. part 230*.

The Section 404 information is provided in tabular format. The table format is based on templates provided to Vineyard Mid-Atlantic by the US Army Corps of Engineers (USACE) and BOEM. Because Vineyard Mid-Atlantic may include two projects, two tables are provided: one for Project 1 and one for Project 2. The tables compare (1) several route options and (2) installation options for horizontal directional drilling (HDD) and open cut trenching.

For descriptions of the routes analyzed and HDD and open cut installation methods, please see COP Volume 1. The tables, although preliminary, include both qualitative and quantitative information that can be used by BOEM and the USACE to evaluate and identify alternatives.

Vineyard Mid-Atlantic Preliminary Section 404 Information for USACE (Project 1)

Component	Project 1 PDE (Applicant Preferred)					Project 1 (Other Options Screened by Applicant but Not Preferred)				
	Offshore	Onshore (Uniondale)		Onshore (Ruland Road)		Offshore	Onshore (Uniondale)		Onshore (Ruland Road)	
	Offshore Cable Route to Jones Beach Landfall Site with HDD	Jones Beach to Uniondale Western Onshore Cable Route with HDD	Jones Beach to Uniondale Eastern Onshore Cable Route with HDD	Jones Beach to Ruland Road Western Onshore Cable Route with HDD	Jones Beach to Uniondale Eastern Onshore Cable Route with HDD	Offshore Cable Route to Jones Beach Landfall Site with Open Cut	Jones Beach to Uniondale Western Onshore Cable Route with Open Cut	Jones Beach to Uniondale Eastern Onshore Cable Route with Open Cut	Jones Beach to Ruland Western Onshore Cable Route with Open Cut	Jones Beach to Ruland Eastern Onshore Cable Route with Open Cut
Cable Length (miles [onshore]; miles in state waters [offshore])	3	14	18	22	19	3	14	18	22	19
Dredge Material (cubic yards)	392	N/A	N/A	N/A	N/A	392	N/A	N/A	N/A	N/A
Amount of Fill in Tidal Waters (Backfill HDD Exit Pits or Offshore Open Cut Trench) (acres)	0.37	N/A	N/A	N/A	N/A	1.1	N/A	N/A	N/A	N/A
Amount of Fill in Tidal Waters (Cable Protection) (acres)	3	N/A	N/A	N/A	N/A	3	N/A	N/A	N/A	N/A
Potential Wetland Impacts (linear feet)	N/A	Minimal	Minimal	Minimal	Minimal	N/A	10,114	3,963	8,286	5,440
Impacts to Other Special Aquatic Sites (acres)	0	0	0	0	0	0	0	0	0	0
Impacts to Beach from High Tide Line Landward to Transition Joint Bay (acres)	Minimal	N/A	N/A	N/A	N/A	2.7	N/A	N/A	N/A	N/A

**Notes:**

1. All quantities are **per cable**. Up to four cables could be installed at a single landfall site.
2. Wetlands impacts are based on a preliminary analysis of where onshore cable routes cross mapped NWI and NYSDEC Regulatory Tidal Wetlands. For the preferred alternative, trenchless crossing methods are expected to be used where the onshore cables traverse wetlands. Specific areas of wetland impacts will be determined for the USACE Section 404 application.
3. Cable protection estimates are conservative and include crossings of active and inactive cables as well as some additional conservatism to account for future projects or other crossings.

Vineyard Mid-Atlantic Preliminary Section 404 of the Clean Water Act Information (Project 2)

Component	Project 2 PDE (Applicant Preferred)						Project 2 (Other Options Screened by Applicant but Not Preferred)					
	Offshore		Onshore (Uniondale)		Onshore (Eastern Queens)		Offshore		Onshore (Uniondale)		Onshore (Eastern Queens)	
	Offshore Cable Route to Rockaway Beach Landfall Site with HDD	Offshore Cable Route to Atlantic Beach Landfall Site with HDD	Rockaway Beach to Uniondale Onshore Cable Route with HDD	Atlantic Beach to Uniondale Onshore Cable Route with HDD	Rockaway Beach to Eastern Queens Onshore Cable Route with HDD	Atlantic Beach to Eastern Queens Onshore Cable Route with HDD	Offshore Cable Route to Rockaway Beach Landfall Site with Open Cut	Offshore Cable Route to Atlantic Beach Landfall Site with Open Cut	Rockaway Beach to Uniondale Onshore Cable Route with Open Cut	Atlantic Beach to Uniondale Onshore Cable Route with Open Cut	Rockaway Beach to Eastern Queens Onshore Cable Route with Open Cut	Atlantic Beach to Eastern Queens Onshore Cable Route with Open Cut
Cable Length (miles [onshore]; miles in state waters [offshore])	17	15	18	15	18	17	17	15	18	15	18	17
Dredge Material (cubic yards)	392	392	N/A	N/A	N/A	N/A	392	392	N/A	N/A	N/A	N/A
Amount of Fill in Tidal Waters (Backfill HDD Exit Pits or Offshore Open Cut Trench) (acres)	0.37	0.37	N/A	N/A	N/A	N/A	1.1	1.1	N/A	N/A	N/A	N/A
Amount of Fill in Tidal Waters (Cable Protection) (acres)	21	16	N/A	N/A	N/A	N/A	21	16	N/A	N/A	N/A	N/A
Potential Wetland Impacts (linear feet)	N/A	N/A	Minimal	Minimal	Minimal	Minimal	N/A	N/A	198	1,316	12	1,316
Impacts to Other Special Aquatic Sites (acres)	0	0	0	0	0	0	0	0	0	0	0	0
Impacts to Beach from High Tide Line Landward to Transition Joint Bay (acres)	Minimal	Minimal	N/A	N/A	N/A	N/A	1.3	0.8	N/A	N/A	N/A	N/A

**Notes:**

1. All quantities are **per cable**. Up to four cables could be installed at a single landfall site.
2. Wetlands impacts are based on a preliminary analysis of where onshore cable routes cross mapped NWI and NYSDEC Regulatory Tidal Wetlands. For the preferred alternative, trenchless crossing methods are expected to be used where the onshore cables traverse wetlands. Specific areas of wetland impacts will be determined for the USACE Section 404 application.
3. Cable protection estimates are conservative and include crossings of active and inactive cables as well as some additional conservatism to account for future projects or other crossings.