Gahagan & Bryant Associates, Inc. 9008-O Yellow Brick Road Baltimore, Maryland 21237 (410) 682-5595 Fax (410) 682-2175 info@gba-inc.com



February 1, 2021 Kristi Lieske, Environmental Scientist II DNREC-Delaware Coastal Programs 100 W. Water St. Ste 7B Dover, DE 19904

Dear Ms. Lieske,

On behalf of the Middlesex Beach Association (see attached letter of agent authorization), I respectfully request your concurrence that their proposed activity complies with and will be conducted in a manner that is consistent with Delaware's approved Coastal Zone Management (CZM) Program.

Enclosed for your review is a copy of our application for a Department of the Army ten (10) year permit to conduct periodic beach replenishment activities, by hopper dredge method with pumpout capability and a monobuoy system, along a 1,900+/- linear foot stretch of shoreline extending from the southern town limits of Bethany Beach to the northern limits of the Town of South Bethany, Sussex County, Delaware. It is intended that the work be conducted coincident and in conjunction with periodic nourishment of the Federal project at Bethany Beach and South Bethany.

I have reviewed the document which contains your program's enforceable policies, the "Delaware Coastal Management Program Comprehensive Update and Routine Program Implementation, November 2018 ". Based on my review, it appears that the proposed project is consistent with the DCMP's policies for the coastal zone management area. Specifically, the work is consistent with <u>5.2</u> <u>Delaware Coastal Management Policies for Beach Management and 5.4 Delaware Coastal Management Policies for Beach Management.</u> The project is designed to replenish a 1,900 linear foot (+/-) stretch of eroded Atlantic Ocean coastline at Middlesex Beach (i.e., mitigate the effects of beach erosion). This area is a heavily used recreational beach area and it provides erosion and storm damage protection to structures and infrastructure landward of the coastline.

The project will have no impact on State wetland resources. The work will protect and conserve coastal water resources (i.e., recreational beach areas) with minimal impacts to water quality (i.e., turbidity will be of a localized, short-term nature in the fill and borrow areas; concentrations of pollutants in the material in the borrow source are low with regard to ecological concerns and low with regard to background levels or remediation standards). Further, the work will protect the natural environment of the coastal strip for recreation with minimal impacts to benthic fauna (i.e., shellfish and invertebrate populations will be temporarily affected, but will rapidly recolonize the fill and borrow area following completion of fill events).

Gahagan & Bryant Associates, Inc. 9008-O Yellow Brick Road Baltimore, Maryland 21237 (410) 682-5595 Fax (410) 682-2175 info@gba-inc.com



I would appreciate it if your office would provide me with written verification that you concur with my consistency determination for the proposed project. Please contact me if you have any questions or require additional information concerning this project.

Sincerely,

B. Newburg

Brian Newbury Agent

Enclosures

cf: Steve Larson Middlesex Beach Association, Inc.



Initial Review: Updated On: Complete:

Official Use Only

# Coastal Zone Management Act Federal Consistency Form

This document provides the Delaware Coastal Management Program (DCMP) with a Federal Consistency Determination or Certification for activities regulated under the Coastal Zone Management Act of 1972, as amended, and NOAA's Federal Consistency Regulations, 15 C.F.R. Part 930. Federal agencies and other applicants for federal consistency are not required to use this form; it is provided to applicants to facilitate the submission of a Consistency Determination or Consistency Certification. In addition, federal agencies and applicants are only required to provide the information required by NOAA's Federal Consistency Regulations.

Project/Activity Name: Middlesex Beach Nourishment as an extension of the Federal Shore Protection Project at Bethany Beach and South Bethany

#### I. Federal Agency or Non-Federal Applicant Contact Information:

ContactName/Title: Brian Newbury (Authorized Agent for Middlesex Beach Association)

Federal Agency Contractor Name (if applicable):

Federal Agency: USACE

(either the federal agency proposing an action <u>or</u> the federal agency issuing a federal license/permit or financial assistance to a non-federal applicant)

Mailing Address: 9008 Yellow Brick Road, Suite O

City:	Rosedale	State:	MD	Zip Code: 21237				
E-ma	<sup>ail:</sup> bmnewbury@gba-ind	c.com		Telephone #: 410-682-5595				
II.	Federal Consistency Cate	egory:						
Ο	Federal Activity or Develop (15 C.F.R. Part 930, Subpa	ment Pro rt C)	ject	Federal License or Permit Activity (15 C.F.R. Part 930, Subpart D)				
0	Outer Continental Shelf Act (15 C.F.R. Part 930, Subpa	ivity rt E)		Federal License or Permit Activity which occurs				
Ο	Federal Financial Assistand (15 C.F.R. Part 930, Subpa	xe intF)		wholly in another state (interstate consistency activities identified in DCMP's Policy document)				

III. Detailed Project Description (attach additional sheets if necessary):

The proposed activity involves periodically dredging by hydraulic method, using either a cutter-suction pipeline dredge or a hopper dredge with pumpout capability and a monobuoy system, approximately 103,000 ± cubic yards of sand (current estimate) from an offshore borrow area and depositing is as beachfill along a 1,900± linear foot stretch of shoreline extending from the southern limits of the town of Bethany Beach to the northern limits of the town of South Bethany Beach in Sussex County, Delaware. The project is intended to adjoin, the full berm section of the Federal Shore Protection Project at Bethany Beach and front the tapered section of that project into South Bethany. The borrow source for the project fill area is Fenwick Island. The Borrow site will be the area previously approved for use under Department of the Army Pennit Numbers CENAP-OP-R-199800591-23, CENAP-OP-R-199801157-23, CENAP-OP-R-200401143-23 and CENAP-OP-R-200600513-26. The Borrow Area E sand source lies about 2.0 miles East of Middlesex Beach project Area in the Atlantic Ocean. It is approximately 775 acres in in area. (Continued on Attached Sheet).

# **IV.** General Analysis of Coastal Effects (attach additional sheets if necessary):

The project will have no impact on State wetland resources. The work will protect and conserve coastal water resources (i.e., recreational beach areas) with minimal impacts to water quality (i.e., turbidity will be of a localized, short-term nature in the fill and borrow areas; concentrations of pollutants in the material in the borrow source are low with regard to ecological concerns and low with regard to background levels or remediation standards). Further, the work will protect the natural environment of the coastal strip for recreation with minimal impacts to benthic fauna (i.e., shellfish and invertebrate populations will be temporarily affected, but will rapidly recolonize the fill and borrow area following completion of fill events).

# V. Detailed Analysis of Consistency with DCMP Enforceable Policies (attach additional sheets if necessary):

# Policy 5.1: Wetlands Management

The project will have no impact on State wetland or freshwater resources. Turbidity from the beach nourishment will be temporary and on effect localized areas in the Atlantic Ocean.

# Policy 5.2: Beach Management

The proposed project will reverse the effects of beach erosion by adding clean sand to the system.

# Policy 5.3: Coastal Waters Management (includes wells, water supply, and stormwater management. Attach additional sheets if necessary)

The work will protect and conserve coastal water resources (i.e., recreational beach areas) with minimal impacts to water quality (i.e., turbidity will be of a localized, short-term nature in the fill and borrow areas; concentrations of pollutants in the material in the borrow source are low with regard to ecological concerns and low with regard to background levels or remediation standards).

# Policy 5.4: Subaqueous Land and Coastal Strip Management

The work will protect the natural environment of the coastal strip for recreation with minimal impacts to benthic fauna (i.e., shellfish and invertebrate populations will be temporarily affected, but will rapidly recolonize the fill and borrow area following completion of fill events).

# Policy 5.5: Public Lands Management

This work will help preserve public land below the mean low water line for recreational purposes.

### Policy 5.6: Natural Lands Management

This policy has been reviewed and the proposed project will not impact this policy.

### Policy 5.7: Flood Hazard Areas Management

The work will help protect the coastal area from potential oceanic storm surges.

### Policy 5.8: Port of Wilmington

This policy has been reviewed and the proposed project will not impact this policy.

### Policy 5.9: Woodlands and Agricultural Lands Management

This policy has been reviewed and the proposed project will not impact this policy.

### Policy 5.10: Historic and Cultural Areas Management

This policy has been reviewed and the proposed project will not impact this policy.

### Policy 5.11: Living Resources

The work will protect the natural environment of the coastal strip for recreation with minimal impacts to benthic fauna(i.e., shellfish and invertebrate populations will be temporarily affected, but will rapidly recolonize the fill and borrow area following completion of fill events)

### Policy 5.12 Mineral Resources Management

This policy has been reviewed and the proposed project will not impact this policy.

### Policy 5.13: State Owned Coastal Recreation and Conservation

This proposed project would help preserve both public and private coastal strip lands for recreation and wildlife habitat. Lands are private above Mean Low Water Line and public below Mean Low Water line.

### Policy 5.14: Public Trust Doctrine

This policy has been reviewed and the proposed project will not impact this policy.

### Policy 5.15: Energy Facilities

This policy has been reviewed and the proposed project will not impact this policy.

### Policy 5.16: Public Investment

This policy has been reviewed and the proposed project will not impact this policy.

### Policy 5.17: Recreation and Tourism

While the work is planned to be done in conjunction with the Army Corps of Engineers beach nourishment project, the Middlesex Beach Association will be paying for their portion of the work in entirety, using a cost share.

### Policy 5.18: National Defense and Aerospace Facilities

This policy has been reviewed and the proposed project will not impact this policy.

### Policy 5.19: Transportation Facilities

This policy has been reviewed and the proposed project will not impact this policy.

### Policy 5.20: Air Quality Management

This policy has been reviewed and the proposed project will not impact this policy.

### Policy 5.21: Water Supply Management

This policy has been reviewed and the proposed project will not impact this policy.

### Policy 5.22: Waste Disposal Management

Clean sand from the borrow source know as "Borrow Area E" will be within environmental standards to be consistent with federal and state regulations. See attached 2005 Versar study "Baseline Biological Monitoring of Two Offshore Sand Sources Along the Delaware Atlantic Coast (Fenwick Island Borrow Area and Area E)" for environmental analysis of borrow source.

# Policy 5.23: Development

This policy has been reviewed and the proposed project will not impact this policy.

# Policy 5.24: Pollution Prevention

This policy has been reviewed and the proposed project will not impact this policy.

# Policy 5.25: Coastal Management Coordination

DNREC, The United States Army Corps of Engineers, and Middlesex Beach Association will have an opportunity to review and comment on thi project.

# VI. JPP and RAS Review (Check all that apply):

Has the project been reviewed in a monthly Joint Permit Processing and/or Regulatory Advisory Service meeting?

JPP	RAS	□ None

\*If yes, provide the date of the meeting(s):

5/21/2020

VII. Statement of Certification/Determination and Signature (Check one and sign below):

**FEDERAL AGENCY CONSISTENCY DETERMINATION.** Based upon the information, data, and analysis included herein, the federal agency, or its contracted agent, listed in (I) above, finds that this proposed activity is consistent to the maximum extent practicable with the enforceable policies of the Delaware Coastal Management Program.

OR

**FEDERAL AGENCY NEGATIVE DETERMINATION.** Based upon the information, data, and analysis included herein, the federal agency, or its contracted agent, listed in (I) above, finds that this proposed activity will not have any reasonably foreseeable effects on Delaware's coastal uses or resources (Negative Determination) and is therefore consistent with the enforceable policies of the Delaware Coastal Management Program.

OR

NON-FEDERAL APPLICANT'S CONSISTENCY CERTIFICATION. Based upon the information, data, and analysis included herein, the non-federal applicant for a federal license or permit, or state or local government agency applying for federal funding, listed in (I) above, finds that this proposed activity complies with the enforceable policies of the Delaware Coastal Management Program and will be conducted in a manner consistent with such program.

Signature:	B. Newburg		
Printed Name:	Brian Newbury	Date:	7/13/2020

Pursuant to 15 C.F.R. Part 930, the Delaware Coastal Management Program must provide its concurrence with or objection to this consistency determination or consistency certification in accordance with the deadlines listed below. Concurrence will be presumed if the state's response is not received within the allowable timeframe.

#### Federal Consistency Review Deadlines:

Federal Activity or Development Project (15 C.F.R. Part 930, Subpart C)	60 days with option to extend an additional 15 days or stay review (15 C.F.R. § 930.41)
Federal License or Permit (15 C.F.R. Part 930, Subpart D)	Six months, with a status letter at three months. The six month review period can be stayed by mutual agreement. (15 C.F.R. § 930.63)
Outer Continental Shelf Activity (15 C.F.R. Part 930, Subpart E)	Six months, with a status letter at three months. If three month status letter not issued, then concurrence presumed. The six month review period can be stayed by mutual agreement. (15 C.F.R. § 930.78)
Federal Financial Assistance to State or Local Governments (15 C.F.R. Part 930, Subpart F)	State Clearinghouse schedule

#### OFFICIAL USE ONLY:

Reviewed By:	Fed Con ID:		Date Re	eceived:	
Public notice dates: to		Comments Re	ceived:	NO	[attach comments]
Decision type: (objections or conditions attach details)		_ Decisior	Date:		

June 25, 2020

To Whom It May Concern;

Mr. Brian M. Newbury of Gahagan & Bryant Associates, Inc. has been retained by Middlesex Beach Association Inc. He is authorized to act on our behalf for the sole purpose as follows:

Obtaining all regulatory approvals for Middlesex Beach Association which may be required for the replenishment of the beach at Middlesex either as a standalone project or in conjunction with the anticipated periodic nourishment of the Federal Shore Protection Project at Bethany Beach and South Bethany, Sussex County, Delaware.

Margery K. CYR

Margie Cyr President Middlesex Beach Association

# U.S. Army Corps of Engineers (USACE)

#### APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT

33 CFR 325. The proponent agency is CECW-CO-R.

Form Approved -OMB No. 0710-0003 Expires: 01-08-2018

The public reporting burden for this collection of information, OMB Control Number 0710-0003, is estimated to average 11 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or burden reduction suggestions to the Department of Defense, Washington Headquarters Services, at <u>whs.mc-alex.esd.mbx.dd-dod-information-collections@mail.mil.</u> Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. PLEASE DO NOT RETURN YOUR APPLICATION TO THE ABOVE EMAIL.

#### PRIVACY ACT STATEMENT

Authorities: Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research, and Sanctuaries Act, Section 103, 33 USC 1413; Regulatory Programs of the Corps of Engineers; Final Rule 33 CFR 320-332. Principal Purpose: Information provided on this form will be used in evaluating the application for a permit. Routine Uses: This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public and may be made available as part of a public notice as required by Federal law. Submission of requested information is voluntary, however, if information is not provided the permit application cannot be evaluated nor can a permit be issued. One set of original drawings or good reproducible copies which show the location and character of the proposed activity must be attached to this application (see sample drawings and/or instructions) and be submitted to the District Engineer having jurisdiction over the location of the proposed activity. An application that is not completed in full will be returned. System of Record Notice (SORN). The information received is entered into our permit tracking database and a SORN has been completed (SORN #A1145b) and may be accessed at the following website: http://dpcld.defense.gov/Privacy/SORNsIndex/DOD-wide-SORN-Article-View/Article/570115/a1145b-ce.aspx

(ITEMS 1 THRU 4 TO BE FILLED BY THE CORPS)

1. APPLICATION NO.	2. FIELD OFFICE CODE		3. DATE RECEIVED	4. DATE APP	PLICATION COMPLETE
	(ITEMS BELOW TO BE	FILLED BY API	PLICANT)	1	
5. APPLICANT'S NAME 8. AUTHORIZED AGENT'S NAME AND TITLE (agent is not required)					
First - MARGIE Middle -	Last - CYR	First - Brian Middle - M Last - Newbury			
Company - Middlesex Beach Association		Company - Gahagan and Bryant Associates, Inc			
E-mail Address -	14 C	E-mail Address - bmnewbury@gba-inc.com			
6. APPLICANT'S ADDRESS:		9. AGENT'S A	DDRESS:		
Address-		Address- 900	8 Yellow Brick Road	l, Suite O	
City - State - Z	Zip - Country -USA	City - Baltime	ore State - M	ID Zip - 2	1237 Country -USA
7. APPLICANT'S PHONE NOS. WAREA CODE		10. AGENTS	PHONE NOs. w/AREA	CODE	
a. Residence b. Business	c. Fax	a. Residence	b. Busines		c. Fax
N/A (410) 524-1500 Ex	STATEMENT OF	N/A	410-682-5	595	(410) 682-2175
11. I hereby authorize, Brian M. Newbury to act in my behalf as my agent in the processing of this application and to furnish, upon request, supplemental information in support of this permit application.					nish, upon request,
NA	ME, LOCATION, AND DESCRIP	TION OF PRO	JECT OR ACTIVITY		
12. PROJECT NAME OR TITLE (see instructions)					
Atlantic Ocean Beach Replenishment at M			STREET ADDRESS (if	ann liachta)	
13. NAME OF WATERBODY, IF KNOWN (if ap Atlantic Ocean			applicable)		
15. LOCATION OF PROJECT	Address Dun	eRd			
	10 de de 75º 2' 10 22"	City - Bethan	y Beach St	tate- DE	Zip- 19930
Latitude: •N 38° 31' 22.09" Longitude: •W 75° 3' 10.82" Or your betting bettin					
State Tax Parcel ID 134-17.16-117.00					
Section Township -	Municipality	Range	-		
ENG FORM 4345, MAY 2018	ITIONS ARE OF	and the second se		Page 1 of 3	

18. Nature of Activity (Description of project, include all features)

The proposed action is to allow periodic dredging and beach nourishment by the preferred method of USACE as a modification of the USACE Delaware Coast from Cape Henlopen to Fenwick Island, Bethany Beach and South Bethany, Delaware project. Approval of this request would provide MBA with the opportunity to coordinate and match replenishment efforts with the anticipated periodic nourishment(s). It is anticipated the project will be dredged by hydraulic method, using either a pipeline cutterhead dredge (27-inch or larger) with a booster pump(s) or a hopper dredge equipped with pumpout capability and a monobuoy system. Approximately 103,000 $\pm$  cubic yards of clean sand will be dredged from an offshore borrow area and deposited as beach fill along a 1,900+/- linear foot stretch of shoreline extending from the southern limits of the private community of Seacolony to the northern limits of the town of South Bethany, Sussex County, Delaware (Continued on Attached Sheet).

19. Project Purpose (Describe the reason or purpose of the project, see instructions)

The purpose of this project is to periodically replace sand lost from this section of Atlantic Ocean Coastline as a result of Coastal Storms and background erosion since the last replenishment project completed in this area. Approval of this request would provide the Association with the opportunity to coordinate and match replenishment efforts with the anticipated periodic nourishment of the Federal Shore Protection Project at Bethany Beach and South Bethany. The project will help reverse the effects of beach erosion at both Middlesex Beach and adjacent beach property. The modification will provide increased protection benefits from storm damage, coastal erosion, and add to the recreational value of the Middlesex Beach community. In addition to providing benefits to the Middlesex Beach Association, this work will supplement and increase the relative longevity of the Federally maintained beaches of Bethany and South Bethany.

USE BLOCKS 20-23 IF DREDGED AND/OR FILL MATERIAL IS TO BE DISCHARGED

Reason(s) for Discharge
Dredged material will be discharged for purposes of beach replenishment.

21. Type(s) of Material Being Discharged and the Amount of Each Type in Cubic Yards:

Туре

Amount in Cubic Yards

Type Amount in Cubic Yards

Type Amount in Cubic Yards

Approximately 103,000 CY of clean sand

22. Surface Area in Acres of Wetlands or Other Waters Filled (see instructions)

Acres

or See Attached Sheet

Linear Feet

23. Description of Avoidance, Minimization, and Compensation (see instructions)  $N\!/\!A$ 

24. Is Any Portion	of the Work Already Complete?	Yes No IF YES,	DESCRIBE THE COMPLI	ETED WORK	
5. Addresses of A	djoining Property Owners, Lesse	es, Etc., Whose Property A	djoins the Waterbody (if mo	re than can be entered here, please at	tach a supplemental list).
	to Attached sheet				
ity -		State -		Zip -	
Address-					
ity -		State -		Zip -	
Address-					
ity -		State -		Zip -	
Address-					
ity -		State -		Zip -	
Address-					
ity -		State -		Zip -	
5. List of Other Cerl	tificates or Approvals/Denials rec		tate, or Local Agencies for	Work Described in This App	lication.
AGENCY	TYPE APPROVAL*	IDENTIFICATION NUMBER	DATE APPLIED	DATE APPROVED	DATE DENIED
EDNREC	Subaqeous Lands		2021-02-01		
EDNREC	Federal Consistency		2021-02-01		
EDNREC	Coastal Construction		2021-02-01		
Vould include but is	not restricted to zoning, building	and flood plain permits			
Application is here	eby made for permit or permits to	authorize the work describ	ed in this application. I ce	rtify that this information in th	nis application is
plicant.	e. I further certify that I possess	the authority to undertake t	he work described herein o	or am acting as the duly auth	orized agent of the
Marge	y & ly	2020-05-22	13. Neu	vluvy	2020-05-22
		DATE	SIGNATUR	RE OF AGENT	DATE
horized agent if t	st be signed by the person wi the statement in block 11 has	been filled out and sign	the proposed activity (ap ed.	oplicant) or it may be sign	ed by a duly
		č			
owingly and willfu	001 provides that: Whoever, illy falsifies, conceals, or cove	in any manner within the	jurisdiction of any depa	artment or agency of the l	United States
tements or repres	sentations or makes or uses a	any false writing or docu	ment knowing same to	contain any false fictitious	s or fraudulent
ements or entry,	, shall be fined not more than	\$10,000 or imprisoned r	not more than five years	or both.	
G FORM 4345, MA					Page 3 d

#### APPLICATION FORM CONTINUED FIELDS

#### Block 18. Continued.

If the opportunity presents itself, the Association would try to utilize the same contractor(s) selected for the periodic nourishment of the Federal project at Bethany Beach and South Bethany. The initial construction of the Federal project was completed in August 2008. Periodic nourishment of the Federal project is anticipated on a three (3) year cycle. Periodic nourishments of the Federal project were performed regularly since 2008, with the most recent project receiving a notice to proceed in September 2020. The quantity of sand placed during a periodic nourishment event will vary with the condition of the beach at the time of placement. However, the seaward limits of the project template approved for future periodic nourishments will not be exceeded.

The project calls for a berm at elevation +7.0 feet-NAVD with a slope of 1V:15H along the foreshore from the crest of the berm to mean low water (MLW). From MLW seaward, the slope changes to 1V:10H to the depth of closure. The borrow source for the project fill area, Borrow Site "E", was previously approved for use under Department of the Army Permit Numbers CENAP-OP-R-199800591-23, CENAP-OP-R-199801157-23, CENAP-OP-R-200401143-23 and CENAP-OP-R-200600513-26. Borrow Site "E" is located approximately 2.0 miles east of the Middlesex Beach project area in the Atlantic Ocean. It is approximately 775 acres in size.

If a pipeline dredge is utilized, sand will be excavated from the borrow source and pumped directly to the project fill area using both floating and submerged pipeline. A booster pump(s) may be used depending upon the pumping capabilities of the equipment employed. If a hopper dredge with pumpout capability is employed, sand will be raised by dredge pumps through dragarms connected to dredge intake heads in contact with the borrow source bottom and discharged into a hopper(s) built within the vessel. When hopper capacity is reached, the vessel will transport the material to a monobuoy pumpout facility which will be anchored offshore at the project site in water deep enough to accommodate the dredge (25 to 30 feet). A submerged pipeline will run from the pumpout facility to the shoreline. The dredge will then anchor and its pumpout line will be attached to the facility and sand will be hydraulically transported (pumped) to the beach via the submerged pipeline. The sand will be transferred up and down the beach at the project fill area using additional pipeline as necessary.

Once sand has been placed at the project fill areas by either one or both of the aforementioned methods, earth-moving equipment (bulldozers) will be used to shape the material to the approved design template.

Based on past experience, dredging sand from Borrow Site "E" has a potential for encountering unexploded ordnance (UXO) associated with past military artillery target practice activities along the Atlantic Ocean coastline. To minimize UXO from entering in the dredge during borrow site dredging, the dredge intake will be fitted with a longitudinal bar-screen. This screen will have a maximum opening of 38 millimeters (1.5 inches) between adjacent bars and will be constructed out of material that is very durable and wear resistant. During dredging operations, these screens will be inspected daily to assure their functionality. If rock, rubble, ordnance or other debris larger than 38 millimeters (1.5 inches) in diameter are found on the beach, the contractor will shut down, remove the object(s) and correct the problem. During pumping operations, the contractor will provide personnel to maintain visual control at the end of the discharge line. Shore to dredge contact will be maintained such that dredging can be halted in case of an emergency.

Refer to the attached planning level drawings for the exact location of the fill and borrow areas and construction details.

#### **Block 22. Continued**

- 1. Total Fill Area:  $680,600 \pm Sq.$  ft.
- Underwater Fill Area (Below MLW): 300,000 ± Sq. ft.
- 3. Intertidal Fill Area (Between MHW and MLW): 102,200 ± Sq. ft.
- 4. Subtidal Fill Area (Below MHW): 402,200 ± Sq. ft.
- Supratidal Fill Area (Between MHHW and MHW):  $17,600 \pm$ Sq. ft.

#### **Block 25. Continued**

To the west of the project (within community of Middlesex Beach):





Important Addresses:

Post Office: Bethany Beach Post Office 14 N Pennsylvania Ave, Bethany Beach, DE 19930

<u>County Government Building (County Administrative Offices)</u> 2 The Circle, Georgetown, DE PO Box 589, Georgetown, DE 19947 <u>Local Newspaper: Coastal Point</u> P.O. Box 1324

Ocean View, DE 19970