

Appendix II-M1

Visual Impact Assessment (VIA) – Wind Turbine Area

Technical Report

Visual Impact Assessment

Wind Turbine Area

Atlantic Shores Offshore Wind

OCS-A 0499

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GLOSSARY/LIST OF ACRONYMS AND ABBREVIATIONS

ADLS Aircraft Detection Lighting Systems

AIS Automatic Identification System

AMSL Above Mean Sea Level

AOWL Aviation Obstruction Warning Lights

BIWF Block Island Wind Farm

BLM Bureau of Land Management

BOEM Bureau of Ocean Energy Management

Character Area Area of similar landscape/aesthetic character based on patterns of landform,

vegetation, water, land use, and user activity.

COP Construction and Operations Plan

Cross Section A profile of the terrain that illustrates sources of visual screening along a line

of sight between the proposed Project and a specific viewer/resource location.

DEM Digital Elevation Model

DSM Digital Surface Model

EDR Environmental Design & Research, Landscape Architecture, Engineering &

Environmental Services, D.P.C.

FAA Federal Aviation Administration

Ft Feet

GIS Geographic Information System

GPS Global Positioning System.

HRVEA Historic Resources Visual Effects Analysis

KOP Key Observation Point

Lidar Light Detection and Ranging

m Meter (1 meter = 3.38 feet)

mi Statute mile (1 mile = 1.61 kilometers = 0.87 nautical miles)

MSL Mean Sea Level

MW Megawatt = One million watts

nm Nautical Mile (1 nm = 1.15 statute mile)

NHPA National Historic Preservation Act of 1966

NHL National Historic Landmark

NJDEP New Jersey Department of Environmental Protection

NJDEP-HPO New Jersey Department of Environmental Protection - Historic Preservation

Office

NLCD National Land Cover Dataset. Land cover types classified and mapped by U.S.

Geological Survey

NNL National Natural Landmark

NPS National Park Service

NRHP National Register of Historic Places

NWR National Wildlife Refuge

NCDC National Climatic Data Center

OCS Outer Continental Shelf

OSS Offshore Substation

The Project Atlantic Shores Offshore Wind Farm

PDE Project Design Envelope

RPM Revolutions Per Minute

RV Recreational Vehicle

SHPO State Historic Preservation Offices

SLR Single Lens Reflex

SQC Scenic Quality Classification

SRHP State Registers of Historic Places

Offshore Cable Atlantic Shores Offshore Wind cable located offshore located beneath the

seafloor which connects the Offshore Substation to the landfall site

TNC The Nature Conservancy

UAS Unmanned Aircraft System

USACE U.S. Army Corps of Engineers

USCG U.S. Coast Guard

USDA U.S. Department of Agriculture

USDOI U.S. Department of the Interior

USDOT U.S. Department of Transportation

USFS U.S. Forest Service

USFWS U.S. Fish and Wildlife Service

USGS U.S. Geological Survey

UXO Unexploded Ordnance

VIA Visual Impact Assessment

Viewshed Area of potential Project visibility defined by maximum structure height and

mapped topography, vegetation, and structures within the study area.

VRAP Visual Resource Assessment Procedure

WEA Wind Energy Area

WMA Wildlife Management Area

WTA Wind Turbine Area

WTG Wind Turbine Generator

ZVI Zone of Visual Influence

3D Three Dimensional

1.0 INTRODUCTION

Environmental Design & Research, Landscape Architecture, Engineering & Environmental Services, D.P.C. (EDR) prepared this Technical Report in support of the Atlantic Shores Construction and Operations Plan (COP) for two offshore wind energy generation Projects, including an Overlap Area that could be used by either Project, within the southern portion of Bureau of Ocean Energy Management (BOEM) Lease Area OCS-A 0499 for renewable energy generation from offshore wind, comprised of up to 200 wind turbine generators (WTG) and associated offshore substations¹. Collectively, these two offshore wind energy generation projects, including the Overlap Area, are referred to herein as the Atlantic Shores Offshore Wind Projects, or the Projects (see Inset 1.1-1). The Lease Area, measuring approximately 159.4 sq mi (413 sq km) will contain the major visible components of the Projects and is henceforth referred to as the Wind Turbine Area (WTA). This VIA assesses the visible components of the Projects which are located within the WTA and include 200 WTGs, one permanent meteorological (MET) tower, four mid-sized offshore substations (OSS), and one large OSS². Separate reports have been completed to assess the visible onshore components of the Atlantic Shores Offshore Wind Project (EDR, 2021a and EDR, 2021b). Components of the Projects that will not result in visible infrastructure during operation such as inter-array cables, the submarine export cable, and onshore interconnection cables are not considered in this VIA.

At its closest point, the WTA is approximately 8.7 mi (14 km) from the New Jersey shoreline (as measured from the northernmost edge of Brigantine City in Atlantic County). The WTA is also 9.4 mi (15.1 km) east of Atlantic City, 16.3 mi (26.2 km) east of Ocean City, 25.3 mi (40.7 km) south of Barnegat Light Borough, and 35.7 mi (57.5 km) northeast of Wildwood (Inset 1.1-1). The purpose of the Visual Impact Assessment (VIA) is to analyze the potential visibility of the proposed Projects and determine the difference in landscape and seascape visual quality with and without the Projects in place. Specifically, the study:

- Describes the appearance of the visible components of the proposed Projects.
- Defines the character and visual quality of the landscapes within the Visual Study Area (VSA).
- Defines the types and sensitivity of viewer groups within the VSA.
- Inventories existing visually sensitive public resources within the VSA.
- Evaluates potential visibility of the Projects within the VSA.
- Identifies key views for visual assessment.
- Illustrates what the Projects will look like from representative key observation points (KOPs).
- Assesses the potential visual impacts associated with the proposed Projects.

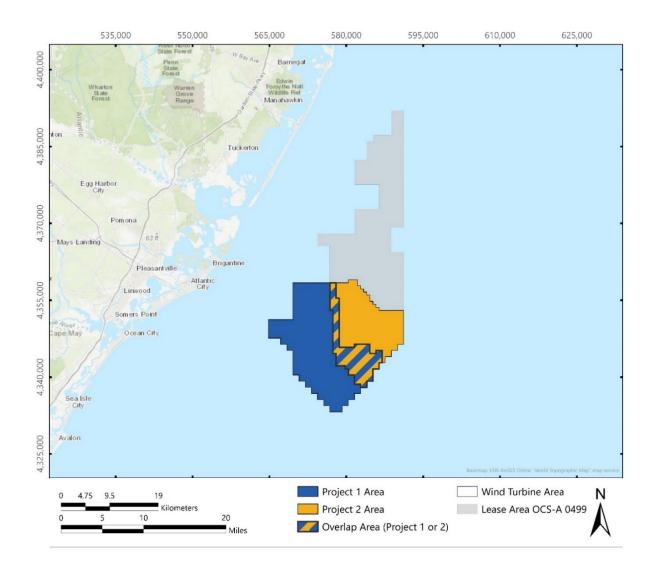
¹ The number of WTGs in Project 1, Project 2, and the associated Overlap Area will not exceed 200 WTG locations. For example, if Project 1 includes 105 WTGs (the minimum) then the Overlap Area would be incorporated into Project 2 which would include the remaining 95 WTGs; and conversely if the Overlap Area is incorporated into Project 1 such that it includes 136 WTGs, then Project 2 would be limited to 64 WTGs. Each Project may also use only part of the Overlap Area.

² The PDE considers up to 10 small OSSs. However, the VIA assumes fewer, larger OSSs located closer to shore.

The VIA was prepared with oversight and input provided by landscape architects, planners, and visual experts experienced in the preparation of VIAs. It is also consistent with the policies, procedures, and guidelines contained in established VIA methodologies (see Literature Cited/References section), and in accordance with the Visual Impact Assessment Study Plan – Offshore (Attachment A) prepared in collaboration with, and accepted by, BOEM.

1.1 Proposed Projects

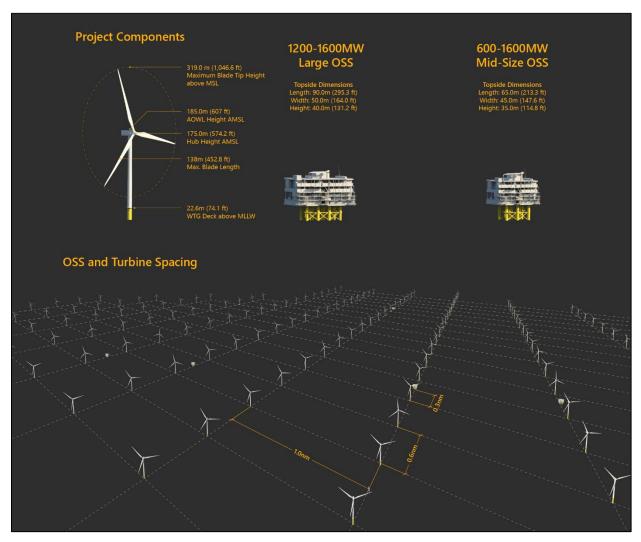
Atlantic Shores has applied a Project Design Envelope (PDE) approach to describe the facilities and activities associated with the Projects. A PDE is defined as "a reasonable range of project designs" associated with various components of a project (e.g., foundation and WTG options) (BOEM 2018). In accordance with the PDE evaluation approach, the assessment of project effects must include the maximum design case for all project development scenarios. Consistent with BOEM's Draft Guidance Regarding the Use of a Project Design Envelope in a Construction and Operations Plan (2018), this VIA considers a maximum design case layout. The layout represents the largest geographic footprint that could be occupied by visible structures and, therefore, the largest percentage of the visible horizon from shoreline locations that may be affected by the Projects. The maximum design case components are described below.



Inset 1.1-1 - Regional Location of the Projects

This VIA also evaluates the largest WTG dimensions currently under consideration, which provides a conservative assessment of theoretical WTG visibility from onshore locations. The maximum sized WTG under consideration is represented by a 20-megawatt (MW) turbine, with dimensions as indicated in Inset 1.1-2. WTGs will be aligned in a uniform grid with rows in an east-northeast to west-southwest orientation spaced 1.0 nautical mile (nm) (1.15 mi; 1.9 km) apart, and rows in an approximately north to south orientation spaced 0.6 nm (0.69 mi; 1.1 km) apart (Inset 1.1-2), within an area measuring approximately 159.4 sq mi (413 sq km). The OSS foundations will be located along the same east-northeast rows as the proposed WTGs, with the same 1.15 mi (1 nm) separation distance between the structures. Inset 1.1-1

illustrates the layout considered in this VIA. The dimensions of all components represented in this VIA are shown in Inset 1.1-2, Tables 1.1-1 through 1.1-3.



Inset 1.1-2 Computer Model of Project Components

Table 1.1-1 Proposed WTG Dimensions Envelope

WTG Component/Parameter	Minimum (15 MW)	Maximum (20 MW)
		Considered in VIA
Turbine Height [from Mean Sea Level (MSL)]	889 ft (271 m)	1047 ft (319 m)
Hub Height (from MSL)	495 ft (151 m)	574 ft (175 m)
Air Gap (MSL) to the Bottom of the Blade Tip	76 ft (23 m)	76 ft (23 m)
Base (tower) Diameter (at the bottom)	26 ft (8 m)	33 ft (10 m)
Base (tower) Diameter (at the top)	20 ft (6 m)	28 ft (8.5 m)
Nacelle Dimensions (length x width x height)	72 ft x 46 ft x 30 ft (22 m x 14 m x 9 m)	82 ft x 52 ft x 39 ft (25 m x 16 m x 12 m)
Blade Length	384 ft (117 m)	453 ft (138 m)
Maximum Blade Width	20 ft (6 m)	33 ft (10 m)
Rotor Diameter	787 ft (240 m)	919 ft (280 m)

Table 1.1-2 Proposed Meteorological Tower Dimensions

MET Tower	Dimension
Foundation	Same/Similar to WTG
Deck	50 ft (15 m) x50 ft (15 m)
Total Number of Units	1
Maximum height of MET Tower (From MSL)	590.6 ft (180 m)

Table 1.1-3 Proposed OSS Dimensions Envelope

OSS Component/Parameter	Maximum Design Scenario	
		Considered in VIA
Energy Capacity	1,200-1,600 MW	600-1,600 MW
Number of OSSs Considered in the Array	4	5
Maximum dimension of topside (LxWxH)	295 ft x 164 ft x 131 ft	213 ft x 148 ft x 115 ft
	(90 m x 50 m x 40 m)	(65 m x 45 m x 35 m)
Maximum height of OSS topside above MLLW	74 ft (22.6 m) above MSL	

Each WTG will consist of four major components: the foundation, the tower, the nacelle, and the rotor (Inset 1.1-3). The height of the hub height (height from the water's surface to the center of the rotor) will be approximately 574 feet (175 m) above mean sea level (AMSL). The nacelle sits atop the tower, and the rotor hub is mounted to the nacelle. Assuming a maximum 919 feet (280 m) rotor diameter, the total WTG height (i.e., height AMSL at the highest blade tip position) will be approximately 1,047 feet (319 m).

Foundation: For the purpose of this VIA, it was assumed that each of the WTGs will be supported by a monopile foundation secured with a single steel pile driven into the sea floor. The monopile foundation at MSL is a 39.4-foot (12 m) diameter tubular steel structure, upon which the tower transition will be mounted. The foundation will extend above the water surface, and the exposed portion of the foundation will be

yellow in color (RAL 1023). A boat landing and hoist will be affixed to the foundation with a stairway connecting the landing to a railed deck at the base of the tower.

Tower: The towers used for the Projects are tapered hollow steel structures manufactured in three sections. The assembled towers have a diameter of approximately 33 feet (10 m) at the base and 28 feet (8.5 m) at the top. Two amber U.S. Coast Guard (USCG) navigation lights will be mounted on the deck at the base of each tower. Additionally, the tower will be equipped with a minimum of three low intensity (L-810) red flashing aviation obstruction warning lights (AOWL) at the approximate mid-section of the tower which will operate during nighttime hours only. In accordance with the BOEM and Federal Aviation Administration (FAA) obstruction marking standards, the tower will be painted white (RAL 9010).

Nacelle: The main mechanical components of the WTG are housed in the nacelle. These components include the drive train, generator, and transformer. For the purpose of this study, the nacelle is assumed to have maximum dimensions of approximately 82 feet (25 m) long, 52 feet (16 m) wide, and 39 feet (12 m) in height. Two AOWL are proposed to be located on top of the nacelle, in accordance with BOEM and FAA guidelines. These will be medium intensity, flashing red lights (L-864) that are operated only at night, and will be synchronized with the L-810 lights located at the mid-tower position, and described above. It is assumed that the nacelle will be the same color as the tower and will not include any obvious lettering, logos, or other exterior markings. Where applicable, the lighting parameters presented in the VIA follow the current BOEM guidance for the lighting and marking of WTGs in order to evaluate the potential nighttime visual impacts associated with the Projects. However, lighting requirements may change based on final BOEM/FAA recommendations. The nacelle will be painted white (RAL 9010).

Rotor: A rotor assembly is mounted on the nacelle to operate upwind of the tower. The rotor consists of three composite blades, each approximately 453 feet (138 m) in length. The three-bladed rotor assembly will be light grey to white in color (consistent with the tower) and will have a maximum diameter of 919 feet (280 m). The rotor blades are rotated along their axis, or "pitched", to enable them to operate efficiently at varying wind speeds. The rotor can spin at varying speeds, but typically rotates at a rate around 10 revolutions per minute (RPM). The rotor assembly will be white (RAL 9010).

The OSSs will be enclosed structures. Currently, three OSS options are under consideration. Depending on the final OSS design there will be up to 10 small OSSs, up to five medium, or up to four large OSSs. In order to illustrate the range of sizing options, this VIA considers both the medium and large OSS options with the medium measuring up to 213 feet long by 148 feet wide and a height of 115 feet (65m x 45m x 35m), and the large measuring up to 295 feet long by 164 feet wide and a height of 131 feet (90 m x 50 m x 40 m). Transition from OSS foundation to OSS topside is expected to occur at approximately 74 feet (22.6 m) AMSL for both OSS options included in the VIA. For the purpose of this VIA, it is assumed that OSSs will be mounted on an 8-legged piled jacket foundation painted yellow (RAL 1023). A diagram illustrating the appearance and dimensions of the WTG and OSS evaluated in this study are presented in Insets 1.1-2 and 1.1-3.

The MET tower is proposed to be installed at one of four potential locations. The VIA considers one of the locations that is positioned closest to shore and positioned between the WTG rows. The MET tower will be constructed on a foundation very similar to those used to support the WTGs. The tower itself is a four sided structure constructed of tubular steel painted light grey (RAL 7016). The foundation will be yellow (RAL 1023). The MET tower will include several stations at various heights containing measurement equipment such as anemometers, hygrometers, and precipitation sensors. It is anticipated that the MET tower will be a relatively minor visual component of the WTA, but it is illustrated in the visual simulations when visible.



Inset 1.1-3 – Diagram of the Wind Turbine Generator Components

1.2 Existing Visual Character

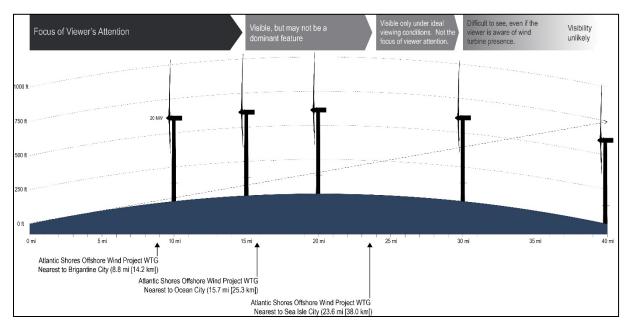
The existing visual character includes the identification of a visual study area (VSA), establishment of distance zones, definition of viewer and user groups, a landscape inventory and identification of character areas, and the identification of visually sensitive resources (VSRs). Additionally, the definition of the existing landscape character relies on the establishment of zones of visual influence (ZVI) which identifies the geographic areas of potential visibility of the Projects. This important step focuses the VIA on locations in which the Projects will be visible and therefore, may present potential visual impacts. Each of these steps and analyses draw from established visual assessment methodologies which have been adapted by EDR to suit the unique circumstances associated with offshore wind projects. The unique circumstances considered

for offshore wind farms include the development of very large VSAs which encompass large land areas and a multitude of landscape types and viewers. The methods employed for each analysis and inventory are described below.

Definition of the Visual Study Area and Zone of Visual Influence

Currently, a standard VSA for offshore wind farms has not been expressly defined in regulatory guidance documents. However, *Information Guidelines for a Renewable Energy Construction and Operations Plan* (COP) (BOEM, 2020) indicates that visual impacts should be evaluated using photo simulations from locations within "the onshore viewshed from which renewable energy structures, whether located offshore or onshore, would be visible."

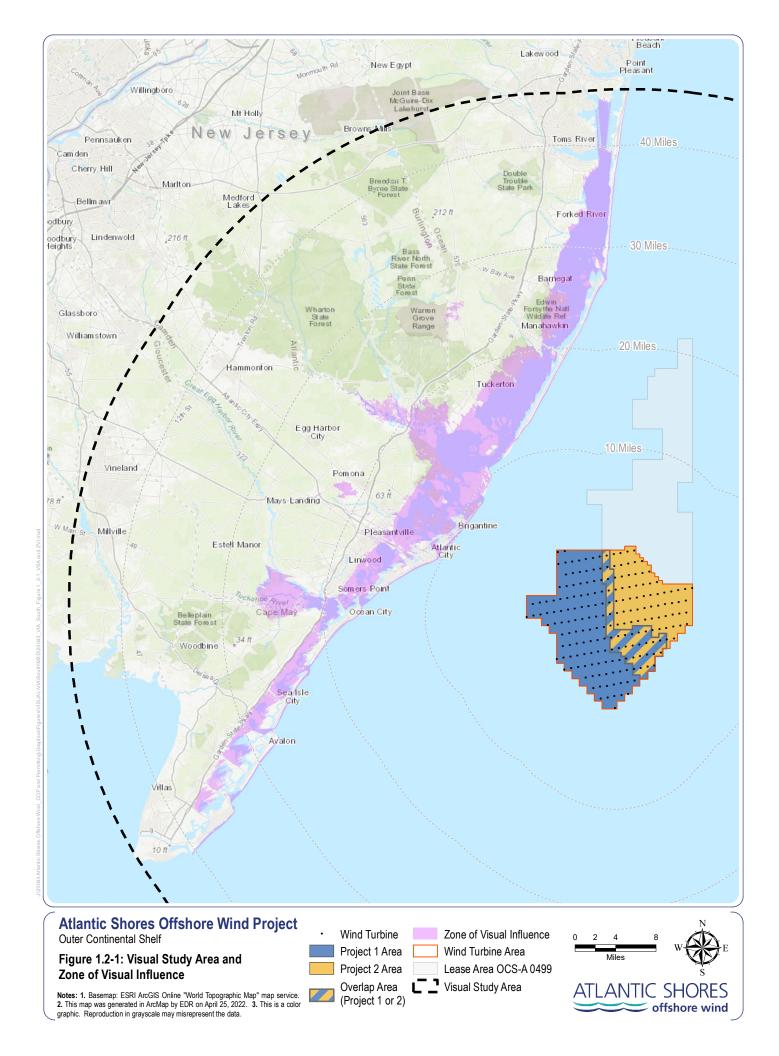
This statement suggests that the VSA should include all areas with any degree of potential visibility of the Projects. The first step in defining the maximum extent of WTG visibility in an offshore setting is to determine the likely physical threshold based on the screening effect of the curvature of the earth and visual acuity of the human eye. Observations of constructed offshore wind facilities are also useful in determining WTG visibility diminishment thresholds, but these studies have only been conducted on projects with smaller WTGs. For example, EDR completed observations of the operational Block Island Wind Farm (BIWF) which utilizes five WTGs with a maximum height of 589 feet (458 feet lower than the WTGs associated with the Projects). These observations suggest that based on this smaller technology, the WTGs will generally become completely screened by curvature of the earth and/or atmospheric perspective at a distance between 35 and 40 miles, depending on the elevation of the viewer. A study completed in Europe, Offshore Wind Turbine Visibility and Visual Impact Threshold Distances (Sullivan, et al., 2013) concluded that offshore wind facilities were judged to be a major focus of visual attention at distances up to 10 mi (16 km); were noticeable to casual observers at distances of almost 18 mi (29 km); and were visible with extended or concentrated viewing at distances beyond 25 mi (40 km) (Sullivan et al., 2013). Again, the Projects consider WTGs that are significantly taller than those included in this study and a calibration of this study is not appropriate given the fact it is based on observation and does not include any specific occupational statistics. However, these studies are still relevant in that the most influential limiting factor in WTG visibility from open coastal locations is atmospheric perspective. Moisture and atmospheric particles will always have a significant influence on visibility over the ocean regardless of the size of the technology. However, it is anticipated that when viewed under clear weather conditions, the visual prominence of larger WTGs will extend over a greater distance and could be the focus of viewer attention beyond 10 miles. However, considering the technology under consideration for the Projects, it is anticipated that visibility from beach level will include a portion of the WTG blades at a distance of 40 miles (64 km) (see Inset 1.2-1). As such, it is anticipated that a 40-mile visual study area is a conservative study area for the Projects. This is also supported by standard human visual acuity thresholds. Assuming a maximum resolution of the human eye is conservatively 28 seconds of an arc or 0.008 angular degrees (Deering, 2019) at 40 miles, human vision can resolve an object that is approximately 30 feet in diameter. The WTGs considered in this VIA have a maximum blade width of 33 feet, suggesting that at a distance of 40 miles, they would be near the maximum threshold of potential visibility and would not result in impacts to onshore resources.



Inset 1.2-1 Turbine Visibility

Based on the research described above, it is anticipated that visibility of the proposed WTGs will diminish completely at a distance of 40 miles (64 km) from ground-level vantage points. However, the VSA identified for the Projects was expanded to include the Cape May Lighthouse since this is a prominent, elevated structure and includes a frequently visited viewing platform which offers commanding views of the landscape and ocean. Therefore, the VSA was defined as the area extending 45.1 miles (72 km) from the WTA.

This VSA includes approximately 6,657.0 square miles (17,241.5 sq. km) of open ocean, 2,196.3 square miles (5,688.5 sq. km) of land (including inland water bodies), and over 130.7 linear miles (210.3 linear km) of ocean shoreline in New Jersey. The VSA includes all or portions of 89 municipalities in New Jersey. The location and extent of the VSA is illustrated in Figure 1.2-1.



Zone of Visual Influence (ZVI)

Within this VSA, a relatively small portion of onshore locations would actually have open views that would include some portion of the WTGs and OSSs. To accurately define an inclusive and reasonable ZVI within the VSA, EDR identified the potential geographic areas of visibility by running a preliminary light detection and ranging (lidar) viewshed analysis within the VSA. The viewshed model considered vegetation, buildings/structures, topography, and the curvature of the earth in order to delineate those areas that may have potential views of the highest portions of the WTGs (i.e., blade tips in the upright position). The viewshed analysis results indicated that up to 288.2 square miles or 13.1 percent of the land area within the VSA, could have potential views of the Projects from ground-level vantage points. Generally, the areas of potential Project visibility occur along the majority of the eastward facing shoreline defined by the barrier islands. In areas where the barrier islands that lack intensive development, large areas of visibility occur within the inland bays, the adjacent western shore, and throughout portions of the marshes and river deltas west of Great Bay, west of Beach Haven and Great Egg Harbor, West of Ocean City. For the purposes of the VIA, this area was defined as the ZVI and represented the areas in which further analysis was warranted to determine the degree of Project visibility and visual impact. The location and extent of the ZVI is illustrated in Figure 1.2-1. A comprehensive description of the viewshed analysis used to define the ZVI is provided in Section 3.1.

1.2.1 Distance Zones

Three distinct distance zones were defined for the VSA. Based on the Bureau of Land Management (BLM) Best Management Practices for Reducing Visual Impacts of Renewable Energy Facilities on BLM-Administered Lands (BLM, 2013) these zones include the Foreground-Middle Ground (0-5 miles), Background (5-15 miles), and Seldom Seen (>15 miles). However, it was determined that when considering views of offshore WTGs, Seldom Seen may not be an accurate representation for views beyond 15 miles (since studies show offshore WTGs to be visible out to 25 miles). Therefore, the name of this zone has been changed to "Extended Background". It is important to note that all Foreground-Middle Ground views within the VSA would only be available to those travelling on the open ocean in commercial vessels, passenger boats, or pleasure craft. Consistent with BLM guidance, distance zones for this VIA are described as follows:

- Foreground-Middle Ground: 0 to 5 miles. Within the foreground (0.5 mile), a viewer is able to perceive details of an object with clarity. Surface textures, small features, and full intensity and value of color can be seen on foreground objects. Beyond the foreground (0.5-5miles) a viewer can perceive individual structures and trees but not in great detail. This is the zone where the parts of the landscape start to join together; individual hills become a range, individual trees merge into a forest, and buildings appear as simple geometric forms. Colors will be clearly distinguishable but will have a bluish cast and a softer tone than those in the foreground. Contrast in color and texture among landscape/seascape elements will also be reduced. On the ocean, the majority of discernable features occur within the Foreground-Middle Ground Zone due to the effects of curvature of the earth and due to the fact that nearshore activities tend to be concentrated within this zone.
- Background: 5 to 15 miles. The background defines the broader regional landscape/seascape within
 which a view occurs. Within this distance zone, the landscape and features on the ocean are
 simplified; only broad landforms are discernible. Atmospheric conditions often render objects on
 the landscape/seascape an overall bluish color and they tend to appear unclear causing the objects

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to begin to blend with the background colors, giving them a fuzzy appearance. Objects on the ocean, such as boats, buoys, and platforms may become completely screened by curvature of the earth at distances greater than 5 miles. In less frequent circumstances, larger features on the ocean horizon may exhibit the "mirage effect" in which images of the viewed objects appear displaced (floating above the water's surface) and can become very difficult to identify. At these distances, texture has generally disappeared, and color has flattened, but large patterns of vegetation are discernible. Silhouettes of one land mass set against another and/or the skyline are often the dominant visual characteristics in the background. Where landscape features are visible beyond the ocean surface (such as islands and peninsulas), they typically contribute to scenic quality by providing a softened backdrop for foreground-middle ground features, an attractive vista, or a distant focal point.

• Extended Background: Over 15 miles. At distances beyond 15 miles curvature of the earth becomes a significant factor in visibility, and those objects that are visible become less prominent in the overall landscape and seascape due to their relative size, occupation of the horizon, and deterioration of visibility due to atmospheric perspective³. For casual viewers, the Projects may be difficult to discern to under less than ideal viewing conditions. During high humidity, fog, and other weather events, visibility at these distances may be significantly diminished or completely eliminated.

1.2.2 Viewer/User Groups

The population potentially affected by the Projects are referred to as viewer/user groups. This VIA identifies four broad categories of users that are likely to experience changes within the landscape and seascape with varying sensitivities. However, invariably there will be overlap within each user group and individuals within a user group may have a wide range of opinions and preferences regarding proposed landscape and seascape changes. Despite a wide range of landscape exposure for each user group, the broad categories presented below describe the types of users that are most likely to be exposed to the Projects. Their sensitivity to visual change, while a personal attribute, is influenced by their activity, duration of view, and exposure to changes in the landscape or seascape. An assessment of potential impacts to viewers is discussed in Section 3.2.1.3.

Local Residents

Local residents include people who live, work, participate in recreation activities, and travel within the VSA. They generally view the landscape from their yards, homes, local roads, places of recreation, and employment. Residents are typically concentrated in the inland/beachfront residential areas, and village and town centers, but often enjoy the local beaches, inland bays, forests, and the numerous outdoor recreational resources within the VSA. Except when involved in local travel or recreation, residents are likely to be stationary and have frequent or prolonged views of the landscape. Local residents are also likely to have the greatest awareness of changes to the landscape due to the repeated, long-duration exposure to the landscape and seascape in which they live. This is particularly true for residents that live near the ocean or those that have the opportunity to experience the coastal landscape on a regular basis. While their activity and sensitivity to change in the landscape and seascape may vary, local residents are likely to have greatest

³ Atmospheric perspective refers to the effect the atmosphere has on the appearance of an object as viewed from a distance.

personal investment in their community and the surrounding landscape, and therefore have the greatest sensitivity to visual change.

Through Travelers

Travelers passing through the VSA view the landscape from motor vehicles on their way to other destinations. Through travelers are typically moving, have a relatively narrow field of view oriented along the axis of the roadway, and are destination oriented. Drivers on major roads in the area such as Garden State Parkway and the Atlantic City Expressway will generally be focused on the road and traffic conditions but will have the opportunity to observe roadside scenery. Passengers in moving vehicles will have greater opportunities for prolonged off-road views than drivers, and therefore may be more aware of the quality of surrounding scenery. Through travelers who are not residents of the area or vacationers are less likely to be particularly sensitive to visual change. However, along this portion of the Atlantic Coast, through travel occurs relatively infrequently due to fact that most of the major highways found within the VSA lead to and from the coastal communities. Occasionally, through travelers may also take advantage of the ferry from Cape May, New Jersey to Lewes, Delaware. Passengers on the ferries are likely to have a higher sensitivity to visual change since the viewer is not driving and can be fully engaged with the scenery and surroundings.

Tourists/Vacationers

Tourists and Vacationers consist of out-of-town vacationers and seasonal/weekend residents who come to the area for the purpose of experiencing its scenic and recreational resources. These viewers include sightseers, families on vacation, casino visitors, and weekend/seasonal homeowners. They may view the landscape on their way to a destination (i.e., on a roadway or boat) or from the destination itself. Some, such as weekend and seasonal homeowners, may spend extended time in the area. Atlantic City hosts a large number of tourists [116 million tourists annually (Tourism Economics, 2019)] who partake in resort activities such as gambling, dining, and nightlife. Often this category of tourist may spend relatively little time outdoors and as little as 24 hours in the VSA. Other vacationers are typically involved in a variety of outdoor activities, including bird watching, bicycling, swimming, recreational boating, fishing, and more passive recreational activities (such as picnicking, beachcombing, kite flying, or walking). Recreational users are generally considered to have relatively high sensitivity to aesthetic quality and landscape character. They will often have continuous views of landscape features over relatively long periods of time, and scenic quality generally enhances the quality of any outdoor recreational activity even though these individuals may not be specifically involved in sight-seeing. Therefore, this view/user group may be particularly sensitive to visual change. Vacation homeowners, tourists, and recreational users will be concentrated in and around the ocean shoreline, but also use interior portions of the VSA and public lands on the mainland.

Fishing Community

The fishing community is represented by recreation and commercial fishermen who work in and experience the coastal and open ocean environment on a regular basis. The commercial fishing community typically engages in focused activity associated with various methods of catching fish and shellfish, including setting gear such as longlines, trawl nets, and pots or traps. Inshore fishing is restricted to the bays, coves, beaches, and waters along the coast. Offshore fishing occurs many miles offshore along the outer continental shelf, including the Lease Area. The recreational fishing community is active in both inshore and offshore settings. Despite the focused activity associated with harvesting seafood, the fishing community is particularly sensitive to changes to the visual seascape since there is often nothing in their immediate environment

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except for open ocean and horizon. The fishing community can have prolonged visual exposure to the seascape and coastal environment, in which fleets spend hours to days setting gear and harvesting fish.

1.2.3 Landscape Inventory

The landscape inventory portion of this VIA defines a broad regional landscape character in terms of the general physiographic setting of the entire VSA. The physiographic setting is then broken into subcategories largely driven by geographic location, but also visual character. As with many coastal locations, there is a distinct character shift as one travels inland from the coast. As such, the VSA is broadly defined by the barrier islands, mainland, inland bay landscapes, as well as the open ocean/seascape. Each of these broad regions includes a diverse range of specific visual components that define the visual character of the VSA. These landscape types, or areas of homogenous visual character are defined as Character Areas. The regional and local landscape character is described below.

Regional Character Areas

Broadly defined, the VSA is entirely contained within the New Jersey Outer Coastal Plain, a subregion of the Embayed Portion of the Coastal Plain Physiographic Province. This region covers 4,667 square miles of New Jersey. It is roughly bounded by Trenton to Monmouth Junction in the north, the Delaware River and Delaware Bay on the west, and the Atlantic Ocean to the east (Dalton, 2003). The region is generally defined by excessively drained sandy soils, with relatively low fertility, giving rise to the distinctive pinelands forests, which thrive in these conditions. The Outer Coastal Plain watershed, influenced by the gradual decline in elevation approaching the ocean drains into the back barrier coastal lagoons and directly into the New York Bight Provence of the Atlantic Ocean (USFWS, 1997). Topography within this province consists of gradual sloping terrain from the uplands to a relatively flat level plain near the inland lagoons and the shoreline. Elevations within the Outer Coastal Plain (within the VSA) range from below sea level to approximately 223 ft. (68 m).

Assessment of Seascape, Landscape, and Visual Impacts (SLVIA) of Offshore Wind Energy Developments on the Outer Continental Shelf of the United States (Sullivan, 2021) provides guidance on the definition of landscape, seascape, and ocean character areas (LCA, SCA, and OCA) which broadly characterize the VSA in terms of common components, mainly influenced by the land/water interface. The LCA includes inland areas that do not interface directly with the ocean and therefore, ocean views are not a major character defining feature. SCAs are defined as coastal areas in which there is intervisibility between land and sea and ocean views are a significant component of the character defining features. The OCA is defined by an open expanse of water and secondary SCA and LCA features that may be visible from the water. The OCA is also the character area that contains the offshore project components.

According to the 2016 U.S. Geological Survey (USGS) National Landcover Dataset (NLCD) the landward VSA primarily consists of forested land (55.2%) which includes woody wetlands and evergreen, deciduous, and mixed forests. Other prominent landcover types include high, medium, and low intensity development (11.9%), and open water associated with inland and coastal bays (10.3%). The landward study area can be further delineated into mainland, barrier island, and inland bays. Each of these regional landscape types are described below and listed in Table 1.2-1.

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Table 1.2-1 Regional Landscapes

Regional Landscape	Total Area within VSA (square miles)	Total Area Within the ZVI (square miles)	Percent of Regional Landscape with Potential Turbine Visibility
Ocean	6,653.7	6,543.0	98.3
Inland Bay	164.3	131.3	79.9
Barrier Island	95.1	46.6	49.0
Mainland	1,939.6	112.1	5.8

Ocean Character Area

The OCA is defined by the Atlantic Ocean and includes the Hudson Shelf Valley and portions of Delaware Bay. The viewshed analysis results suggest that approximately 98.3 percent of this regional landscape occurs within the ZVI. The OCA is characterized by broad expanses of open water and depending on weather conditions, the texture of the ocean surface can range from smooth to choppy, and its color can range from blue, to silver, to dark gray. The ocean in this area is a working water landscape that supports regular and repeated activity, including recreational and commercial fishing, commercial shipping, ferry transportation, pleasure boating and sailing, and associated maritime activities. These activities are typically visible from the mainland and barrier islands when occurring in nearshore areas and features such as jetties, buoys, channel markers, and warning lights are common features near ports and bay entrances.

Inland Bays

Open water associated with the inland bay portion of the VSA primarily includes the barrier island back bays such as Great Egg Harbor Bay, Great Bay, Absecon Bay, Barnegat Bay, and the rivers that feed them (Great Egg Harbor River and Mullica River). The viewshed analysis results suggest that approximately 79.9 percent of this regional landscape occurs within the ZVI. The open water rivers and bays support emergent wetland salt marshes which are the primary landcover along the mainland coast and are represented by state WMAs such as Tuckahoe, Cape May Coastal Wetland, Absecon, Great Bay Boulevard, and Manahawkin.

Barrier Islands

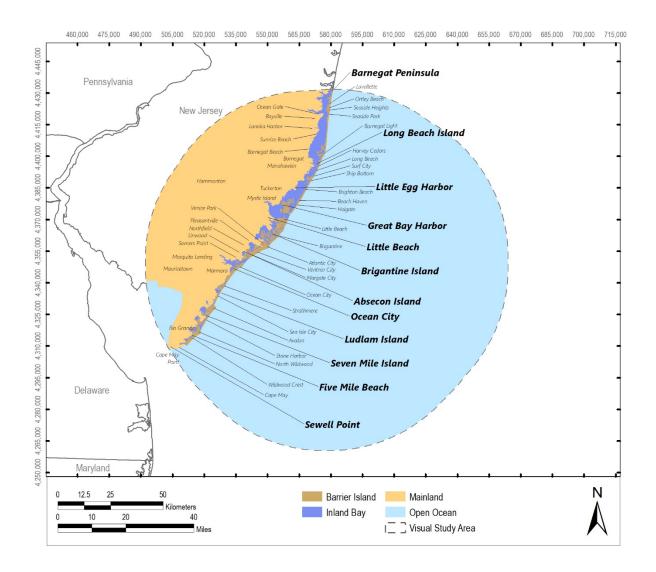
Barrier islands make up the majority of the eastern portion of the landward VSA and include the Barnegat Peninsula, Long Beach Island, Little Beach, Brigantine Island, Absecon Island, Ocean City, Ludlam Island, Seven Mile Island, Five Mile Beach, and Cape Island. These areas typically define the majority of the SCA within the VSA. The viewshed analysis suggests that approximately 49 percent of this regional landscape occurs within the ZVI. According to the NLCD, the Barrier Islands are primarily made up of emergent wetlands (34%), open water (23%), and low, medium, and high intensity developed land (32%). The remaining areas are typically transitional cover types such as, woody wetlands, scrub/scrub, forest, and

barren land which all occur in very discrete areas throughout the barrier islands. Analysis of the lidar topographic data suggests that elevation within the barrier beaches and islands is relatively flat, and ranges from below sea level to a maximum of approximately 39 ft (12 m) AMSL which occurs on the vegetated dunes in the Borough of Avalon in the southern portion of the VSA. It should be noted that significant efforts are underway to stabilize dunes along the barrier island coast and elevations may fluctuate based on the progression of dune nourishment and storm event destruction. However, elevations generally average approximately 2 ft (0.6 m) regardless of the variable dune topography. Vegetation on the barrier beaches and islands is typically characterized by a mix of scrub forest, grassy dunes, and salt marshes. Developed areas generally include seasonal and year-round homes, villages, roads, boardwalks, and marinas. The barrier island beaches have variable levels of development ranging from large cities with high-rises (Atlantic City on Absecon Island) to small beach communities with vacation homes (Lavallette Borough on Barnegat Peninsula) to undeveloped dune landscapes, beaches, and marshland, including Island Beach State Park, North Brigantine Natural Area, Corson's Inlet State Park, Cape May Coastal Wetlands Wildlife Management Area (WMA), and Edwin B. Forsythe National Wildlife Refuge (NWR).

Mainland

The New Jersey mainland area covers approximately 1,940 sq mi (5277 sq km) and makes up the entire western portion of the VSA. Generally, the Mainland contains all of the LCAs; however, some SCAs occur where the mainland has a direct interface with the ocean. The viewshed analysis suggests that approximately 5.8 percent of this regional landscape occurs within the ZVI. It extends from Asbury Park in the north to Hammonton in the west and Cape May to the south. In inland bay portion of the VSA borders most of the eastern side of the mainland. According to the NLCD, the mainland is primarily composed of forest (62%), developed land (19%), and emergent wetlands (8%). The remaining 11% is relatively evenly distributed between pasture/cultivated crop land, barren land, open water, scrub/shrub, and herbaceous cover which are generally scattered throughout the VSA in small pockets. Within the mainland portion of the study area, elevations range from sea level along the coast to a high point of 226 feet (69 m) AMSL which occurs in the northwestern portion of the VSA at Colliers Mills WMA in Jackson Township, Ocean County, Generally, elevations average approximately 59 ft (18 m) throughout the mainland portion of the VSA with lower elevations occurring near the inland bay and ocean coast. The mainland portion of the VSA is intensively developed on both sides of the Garden State Parkway. The development begins as a narrow band surrounding the highway in the southern portion of the VSA which becomes more expansive in the northern portion of the VSA. Beyond these more densely developed areas forested areas associated with the pine barrens ecosystem are the dominant land cover. In the western portion of the mainland, low intensity development, such as large lot residential use (often times in proximity to cultivated cropland) are interspersed amongst the forested areas. More significant expanses of cultivated cropland are found along the western edge of the VSA with the highest concentration in Hammonton Town and surrounding communities.

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Inset 1.2-2 – Regional Landscape Definition

Character Areas

Landscape and/or seascape types, referred to in this report as character areas, are defined based on the similarity of visual features, such as landform, vegetation, water, and land use patterns. While regional landscapes are likely to exhibit diversity across a larger area, character areas should demonstrate a fairly homogenous visual character. Defining and delineating the landscape/seascape types found in the ZVI provides a useful framework for the analysis of existing visual resources and viewer settings.

EDR defined 18 distinct character areas within the ZVI, as listed in Table 1.2-2. The definition of these character areas is consistent with the approach taken in various visual assessment guidance methodologies (Smardon et al., 1988; U.S. Department of Agriculture [USDA] Forest Service, 1995; U.S. Department of

Transportation [USDOT] Federal Highway Administration, 1981; U.S. Department of Interior [USDOI] Bureau of Land Management, 1980) as well as the current BOEM SLVIA guidance document (Sullivan, 2021).

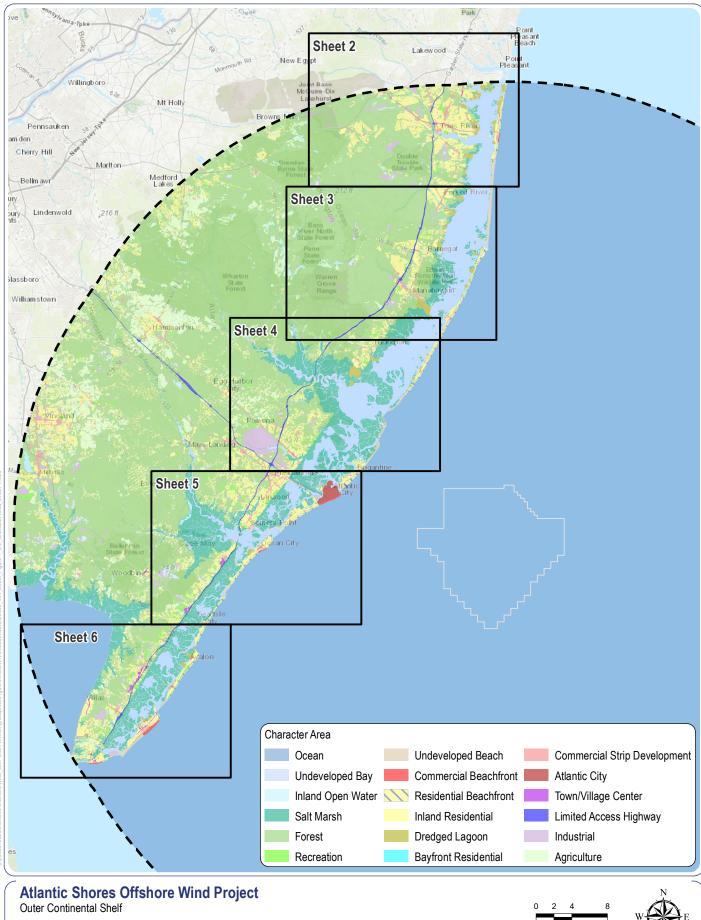
The process of mapping the character areas was based on land use/land cover designations within the New Jersey Department of Environmental Protection (NJDEP) Land Use/Land Cover 2015 (2019 Update) dataset. The designations within this highly granular dataset were grouped and generalized based on common characteristics and adjacency in order to approximate the spatial extent of each character area within the VSA. For example, various types of forest were grouped together into the Forest character area along with small pockets of differing land uses within forested areas (provided they did not match the characteristics of any other character area). The Town/Village Center character area was not readily identifiable based on this dataset alone and was instead delineated based on zoning data for Atlantic, Cape May, Monmouth, and Ocean Counties. The Residential Beachfront and Bayfront Residential character areas were identified based on their land use designation in combination with their location within 100 feet of qualifying features such as ocean, beach, dunes, bays, or salt marshes. The Atlantic City character area was defined based on geographic location and the presence of specific development types such as large high-rise buildings, dense development, and grided streets, as identified on aerial imagery. The process of delineating and refining all character area boundaries also relied upon review of aerial imagery, street-view photography, and fieldwork data. During final review of character area mapping (which focused on the ZVI), manual corrections were made in locations where the previously described process did not result in the appropriate character area designation. The resulting map is illustrated in Figure 1.2-2 (Sheets 1-7), along with representative photos of each character area provided as part of the character area descriptions below.

The general landscape character, land use, viewer/user groups, and types of views available from each of the character areas that occur within the ZVI are described below. It is important to note that many of these character areas also have an integral seascape component (i.e., views of the ocean) that is a major contributing factor to the visual composition and scenic quality of the character area. Use of these character areas to assist in defining the baseline scenic quality for the VSA and ZVI is an appropriate methodology for projects located offshore but visible from onshore character areas.

Table 1.2-2 Character Area Visibility Analysis

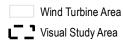
Character Area	Classification	Total Area within VSA (square miles)	Total Area Within the ZVI (square miles)	Percent of Character Area with Potential Turbine Visibility
Ocean	OCA	6,657.8	6,545.6	98.3
Undeveloped Bay	OCA	209.1	155.7	74.4
Residential Beachfront	SCA	8.2	6.3	76.5
Salt Marsh	SCA/LCA	214.7	112.0	52.1
Commercial Beachfront	SCA	1.4	0.9	68.7

Character Area	Classification	Total Area within VSA (square miles)	Total Area Within the ZVI (square miles)	Percent of Character Area with Potential Turbine Visibility
Undeveloped Beach	SCA	7.9	4.1	51.2
Atlantic City	SCA	3.1	0.2	6.9
Industrial	LCA	37.8	2.6	6.8
Bayfront Residential	LCA	3.3	0.2	6.1
Dredged Lagoon	LCA/SCA	14.3	0.5	3.3
Limited Access Highway	LCA	9.6	0.3	3.6
Recreation	LCA/SCA	20.2	0.6	3.2
Inland Open Water	LCA/SCA	26.6	0.7	2.6
Commercial Strip Development	LCA	29.5	0.4	1.5
Inland Residential	LCA	223.8	1.1	0.5
Town/Village Center	LCA	2.6	0.0	0.3
Forest	LCA	1,273.1	2.1	0.2
Agriculture	LCA	110.2	<0.1	<0.1

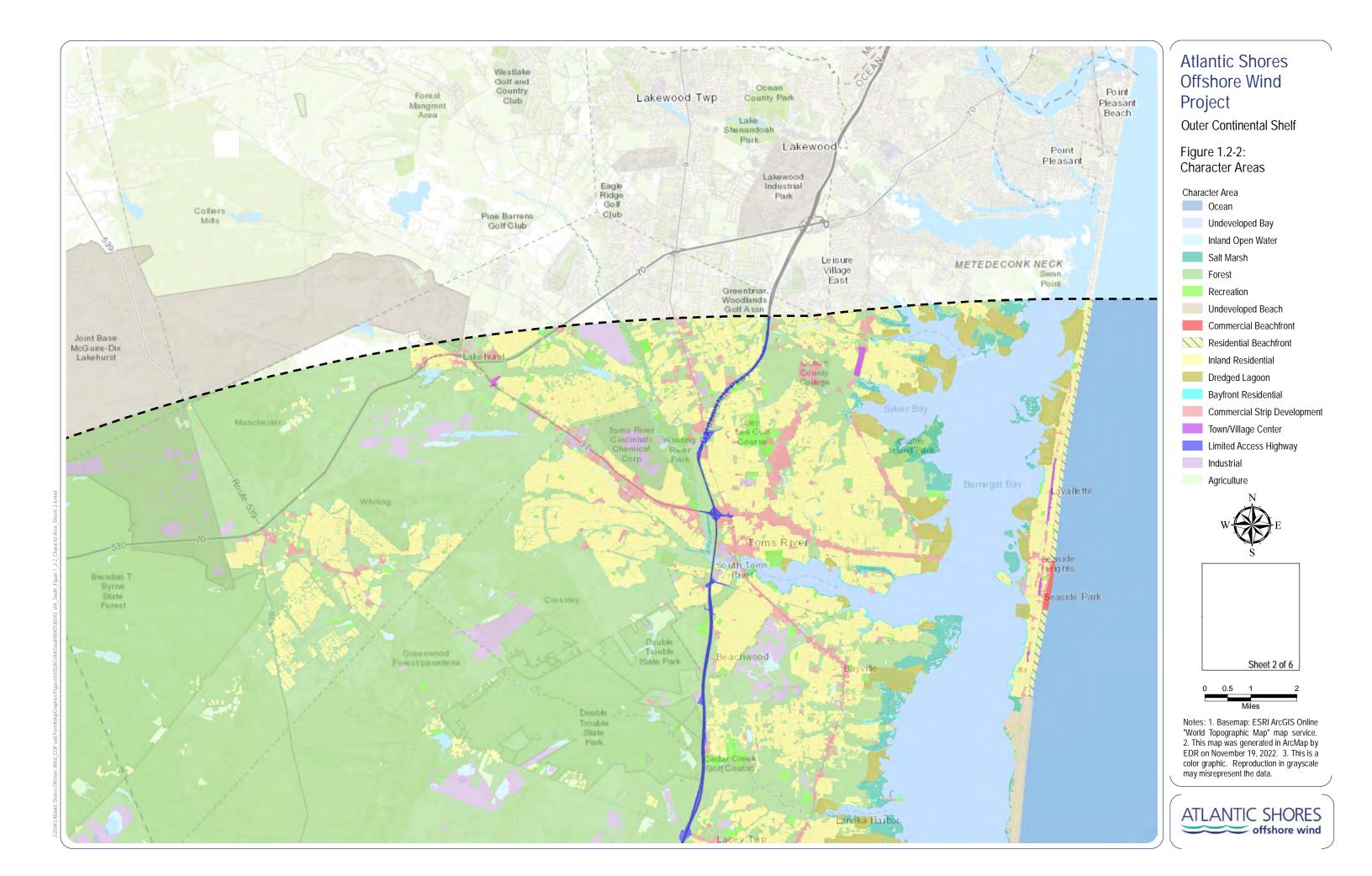


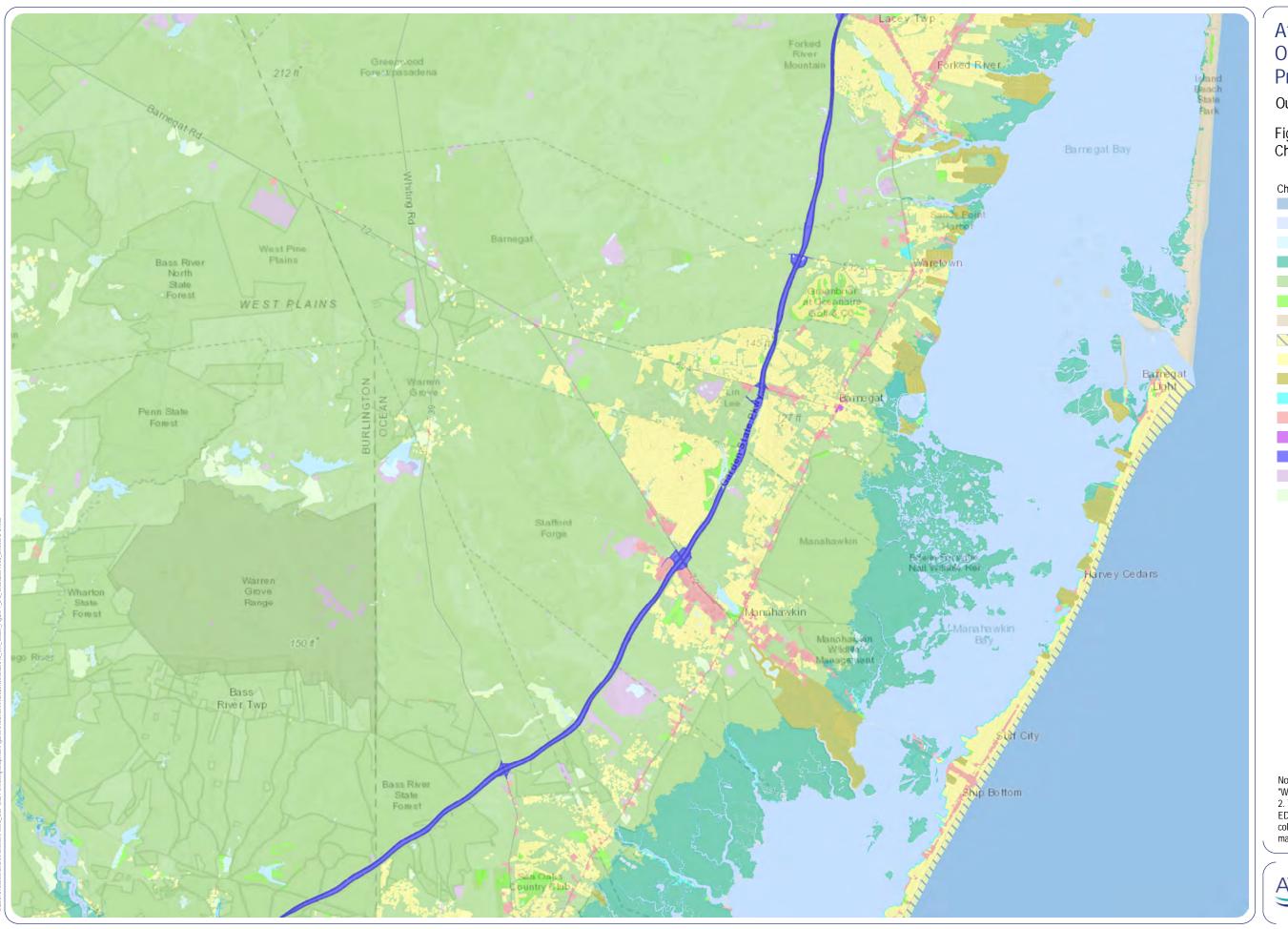
Outer Continental Shelf Figure 1.2-2: Character Area Sheet 1 of 6

Notes: 1. Basemap: ESRI ArcGIS Online "World Topographic Map" map service.
2. This map was generated in ArcMap by EDR on November 19, 2022. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.









Atlantic Shores Offshore Wind Project

Outer Continental Shelf

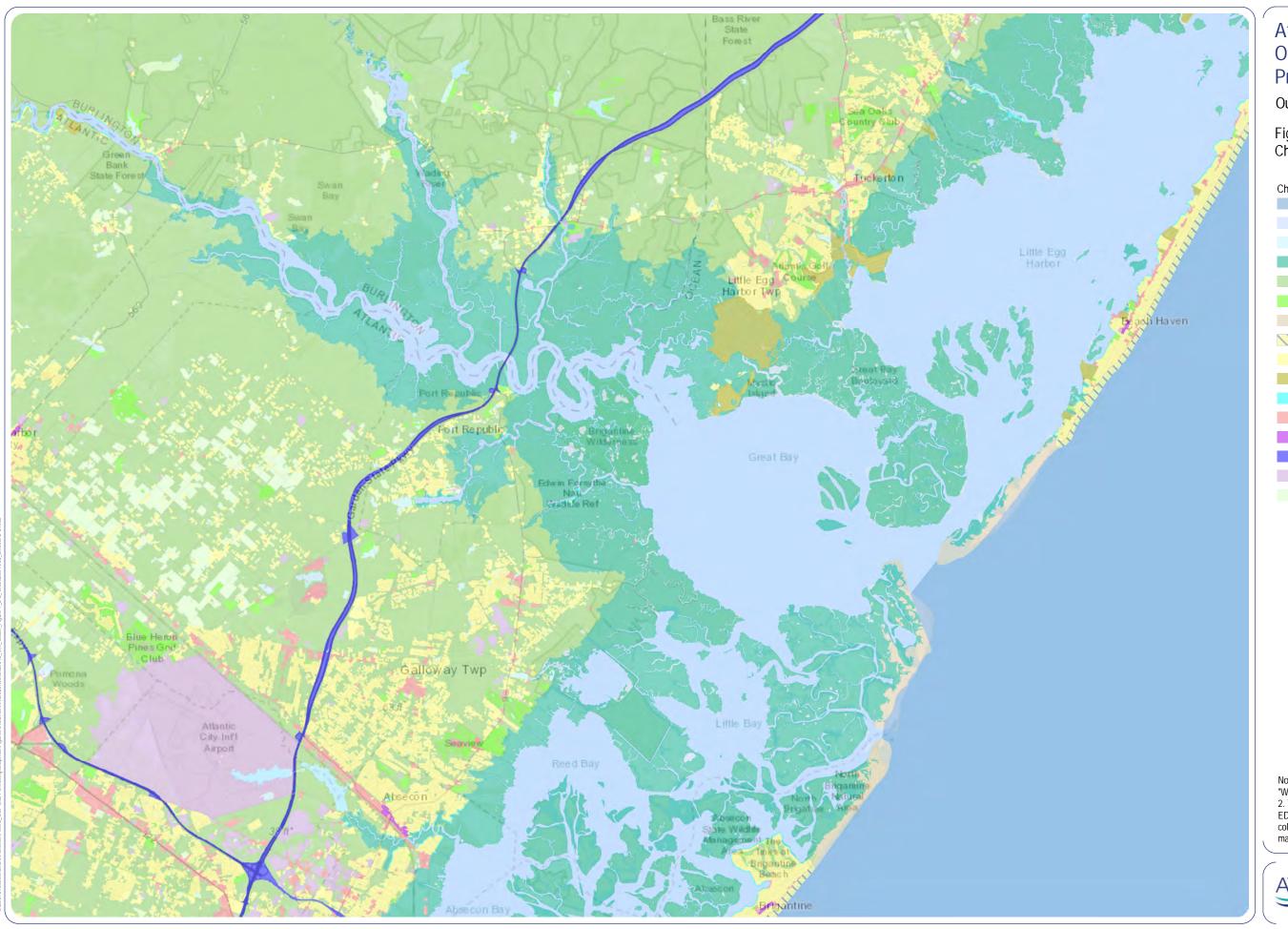
Figure 1.2-2:



Notes: 1. Basemap: ESRI ArcGIS Online "World Topographic Map" map service.
2. This map was generated in ArcMap by EDR on November 19, 2022. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.

Sheet 3 of 6





Atlantic Shores Offshore Wind Project

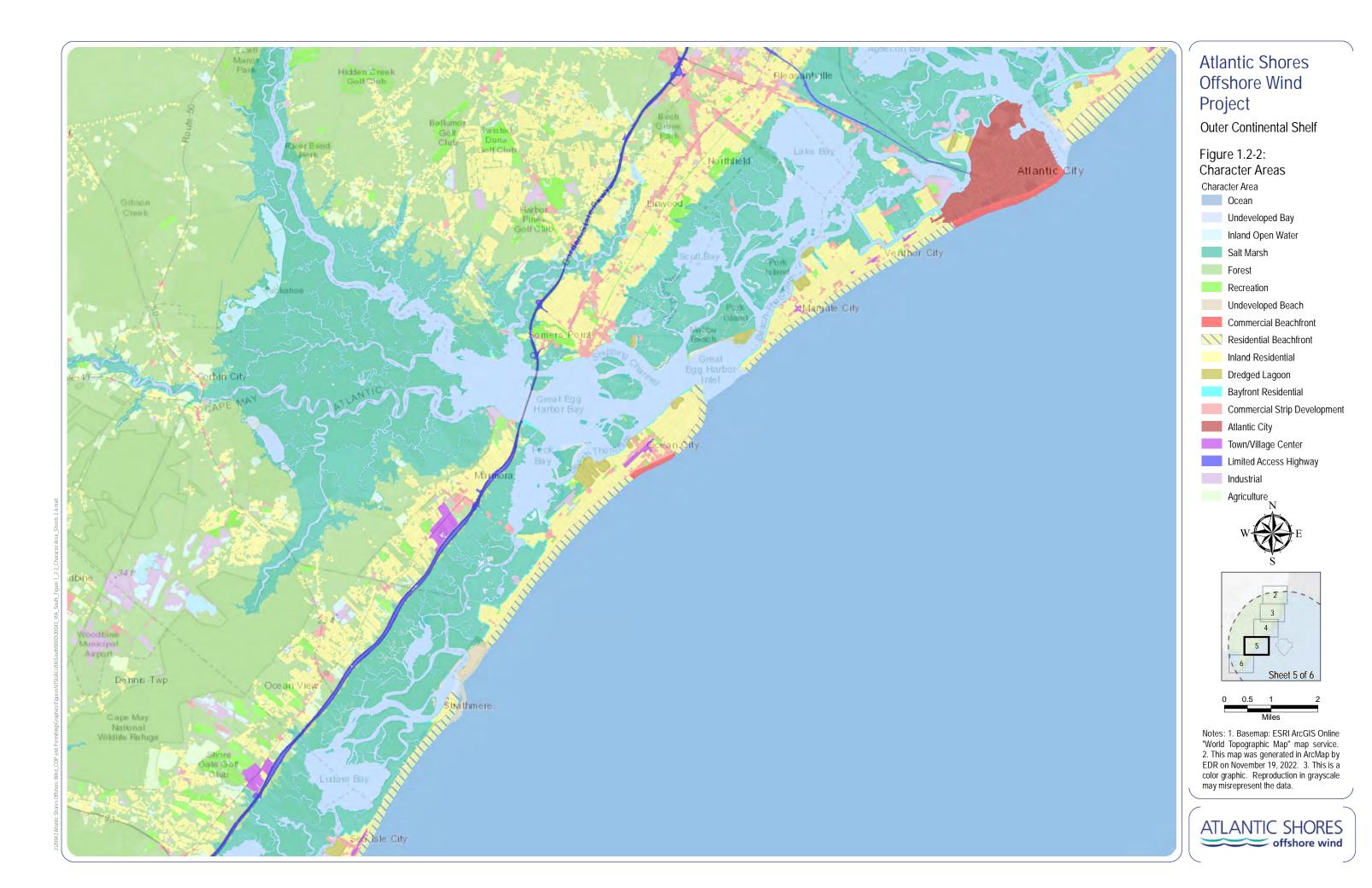
Outer Continental Shelf

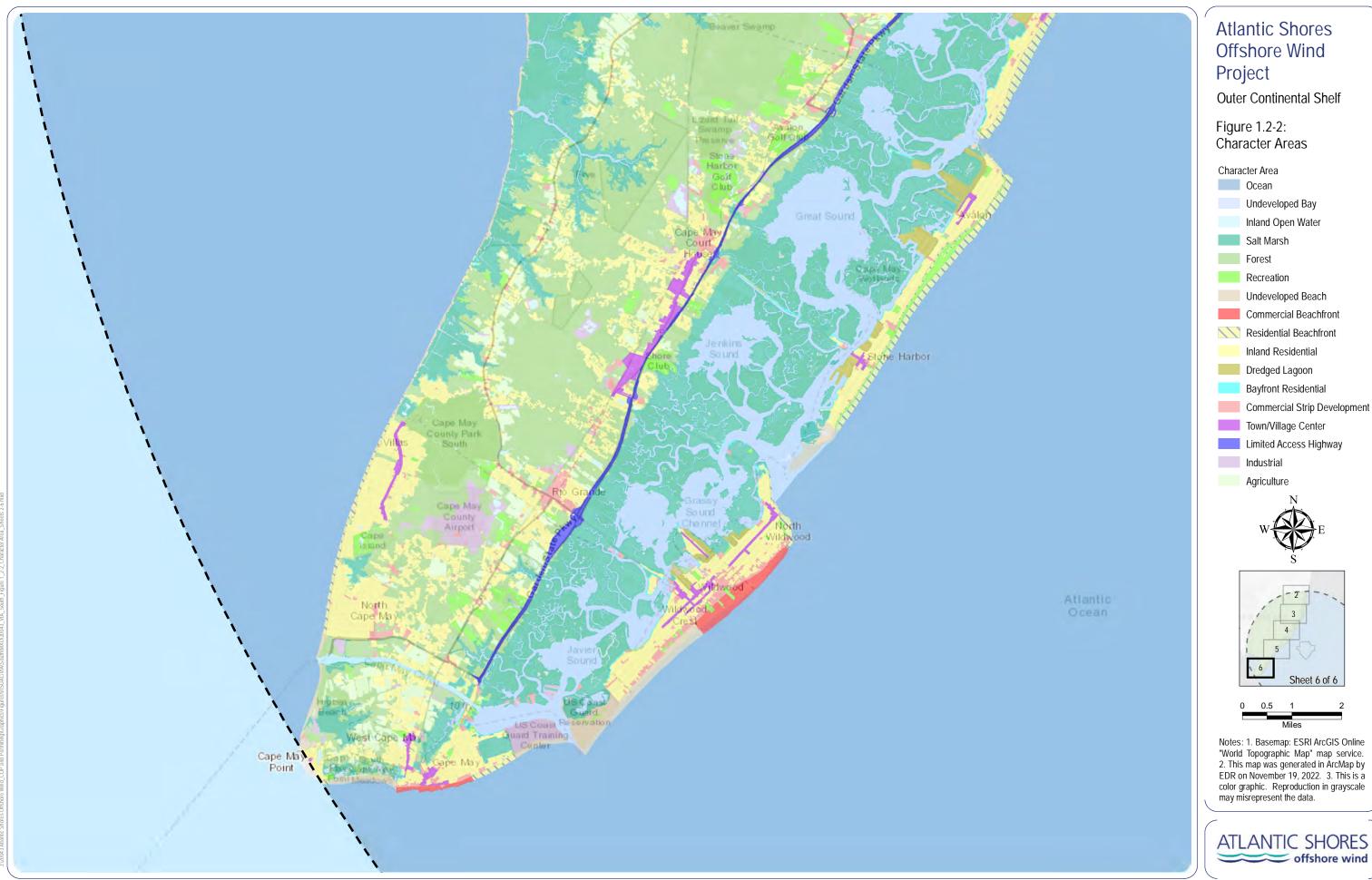


Notes: 1. Basemap: ESRI ArcGIS Online "World Topographic Map" map service.
2. This map was generated in ArcMap by EDR on November 19, 2022. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.

Sheet 4 of 6







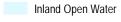
Atlantic Shores Offshore Wind Project

Outer Continental Shelf

Figure 1.2-2: **Character Areas**



Undeveloped Bay



Salt Marsh

Forest

Recreation

Undeveloped Beach

Commercial Beachfront

Residential Beachfront

Inland Residential

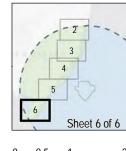
Bayfront Residential

Town/Village Center

Limited Access Highway

Agriculture

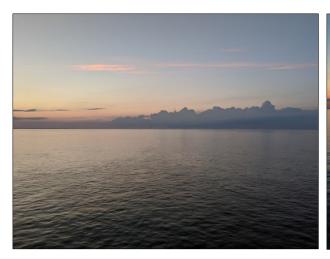




Notes: 1. Basemap: ESRI ArcGIS Online "World Topographic Map" map service.
2. This map was generated in ArcMap by EDR on November 19, 2022. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.



Ocean





Inset 1.2-3 - Examples of the Ocean Character Area

Within the ZVI, this zone includes the open water of the Atlantic Ocean off the coast of New Jersey and portions of Delaware Bay. The defining characteristic of this character area is the presence of open water as a dominant foreground element in all directions. The open expanse of water can be relatively calm and flat or may occasionally include rolling swells and white caps. Human-made features in the water are limited but may include occasional jetties, buoys, and boats. Views into this character area cross the open water and often extend to the horizon. Views from within this character area toward shore contain various components of other character areas including undeveloped beach associated with oceanfront parks and natural areas, and human-made features associated with Residential Beachfront and oceanfront commercial zones. These can include buildings, boardwalks, amusement parks, and city skylines, particularly those associated with Atlantic City and Ocean City. The open water character area may also include views of character areas occurring further inland, including forested areas and salt marsh. The visibility, breadth, and detail of these features generally corresponds to the viewer's distance from shore. Features such as the Atlantic City's high-rises would likely be visible from significant distances within the open water character area, but visibility of lower profile features such as beaches and forest would likely diminish completely once a few miles offshore. Human activity on the water can be extensive, especially near major ports, inlets, navigation channels, and in proximity to marinas during the recreation season. This activity includes pleasure boating, merchant shipping, commercial and recreational fishing, and various water sports. Activity beyond the nearshore is typically concentrated within the designated shipping lanes located between 4 and 10 miles offshore. It is important to note that the Ocean character area can be a significant contributor to the scenic quality of adjacent SCAs such as undeveloped beach and shoreline residential. Additionally, the proposed action takes place entirely within the Ocean character area. As such, the contribution of this character area to adjacent character areas and the potential change resulting from the Projects is an important aspect of the VIA.

Undeveloped Beach





Inset 1.2-4 – Examples of the Undeveloped Beach Character Area

This character area is characterized by shoreline areas with minimal development and includes rolling, vegetated dunes which lead to an open sandy beach that slopes gently to the water line. In some instances, human-made features such as break walls, or stone jetties extend from the beach out into the ocean, but the remainder of the landscape generally lacks evidence of development. The undeveloped beaches within the ZVI are located on both barrier islands and islands within the back bays. Undeveloped beaches include Island Beach State Park on Barnegat Peninsula, portions of the Edwin B. Forsythe NWR such as Holgate Nature Conservatory and Short Island (also known as Pullen Island), North Brigantine State Natural Area, Corson's Inlet State Park, Stone Harbor Point, Cape May NWR, and Malibu Beach WMA. The defining characteristic of this character area is an unobstructed, water-level view up and down the shoreline and across open water as one looks out to sea, with minimal to no encroachment of human-made structures or infrastructure in the foreground view. Views from undeveloped beaches may also overlook inlets with visibility of neighboring islands. Some of the beaches (e.g., Island Beach State Park) are maintained by state or federal agencies, and therefore may include some human-made elements, including signage, fencing, and paved areas. However, these items are mainly clustered around public access points and are often screened by coastal dunes. Viewer activity in this area is primarily recreational, and includes swimming, sunbathing, birdwatching, wildlife observation, walking, beachcombing, fishing, and surfing. The Undeveloped Beach character area provides opportunities for uninterrupted views of the Ocean character area backed by vegetated dunes which minimize the opportunity for inland views. These views over the Ocean character area include 180 degrees or more of uninterrupted ocean, generally extending to the horizon, and are a defining characteristic of the Undeveloped Beach. During the summer season, these views will often include a large number of beach goers and associated beach and ocean activity. However, the undeveloped beaches tend to be less crowded than the Commercial Beachfront character area, or the Atlantic City character area, described below. As such, viewers within the Undeveloped Beach character area have greater opportunities for views without distracting foreground features. Most users of this character area consider the Ocean the character defining element of the beach and the focus of their activities typically relies on the presence of the ocean and ocean views.

Undeveloped Bay





Inset 1.2-5 – Examples of the Undeveloped Bay Character Area

Within the ZVI, this character area includes the expansive bodies of water west of the barrier islands and is characterized by an expanse of open water primarily bordered by the Salt Marsh, Dredged Lagoon, Bayfront Residential, and Forest character areas. The Undeveloped Bay character area hosts a diversity of wildlife which often animates the open water and shoreline. The Undeveloped Bay character area typically flows through protected ecological areas such as the Absecon WMA, Cape May NWR, Edwin B Forsythe NWR, Manahawkin WMA, and Great Bay Boulevard WMA. Views from and into the bay are typically framed by the primarily developed barrier islands, natural islands within the bay, or mainland landforms in the distance. These visible landforms may include human-made features such as housing developments, high rise buildings (Atlantic City), lighthouses, bridges, water towers, and utility/communication towers. The waters within this character area receive significant use by motorized and nonmotorized recreational boats, which are generally concentrated within the managed navigation channels of the bays. Areas outside the channels generally have a lower intensity of human activity. Views from within the Undeveloped Bay character area are generally panoramic and extend long distances, out to and sometimes beyond the barrier islands that separate the bays from Ocean character area. Views to the Ocean character area are generally interrupted by development, sand dunes, or vegetation on the intervening barrier islands. At inlet locations in the Undeveloped Bay character area views to the Ocean VA are typically framed by barrier islands. However, as one travels inland on the bays, vegetation within the salt marsh, barrier island development, and even vegetated sand dunes can limit outward visibility due to the lack of elevated vantage points within the bays.

Residential Beachfront





Inset 1.2-6 – Examples of the Residential Beachfront Character Area

This character area is characterized by year-round and seasonal homes, inns and hotels, and some large multi-unit buildings situated along the ocean shoreline. The defining characteristic of this zone is a broad, often elevated view (particularly from multi-story residences) of the ocean from a residential setting, with direct access to an adjacent beach. It is common for these residences and buildings to be separated from the beach by dunes, characterized by gently undulating sand features dominated by dune grasses and low shrubs in variable stages of succession. Wooden slat sand fencing is often present in this setting to protect the dunes from migration. Homes within this zone tend to be two to three-stories and are typically larger than the nearby homes further inland. However, smaller oceanfront beach cottages occur in older communities such as Beach Haven and Sea Isle City. Housing stock in this zone covers a wide range of styles including shingled cottage cape, Victorian, and modern. Structures in this character area are universally situated and designed to take advantage of beach access and ocean views. Common beachfront architectural elements include decks, awnings, skylights, extensive window banks, complex rooflines, and fencing that separates properties. Properties separated from the beach by dunes and/or vegetation typically include boardwalk or sand paths to the beach, which traverse the dunes. Landforms in this character area are level to gently undulating, and surrounding vegetation includes a mix of coastal scrub, dunes, and maintained residential landscaping. Large trees are generally lacking. Typical user activity within this zone includes a combination of residential and recreational activities, such as home and yard maintenance, local travel, sight-seeing, and beach recreation by members of the public. By its very nature, this character area has open panoramic views of the Atlantic Ocean, primarily from the upper floors of the homes, where balconies and rooftop decks are often situated specifically to take advantage of the ocean views. However, the dunes as well as the often continuous line of shorefront structures limit ground-level views to the ocean. Regardless, the ocean is an integral and defining feature of this character area, through a variety of senses including sight, sound and smell.

Bayfront Residential





Inset 1.2-7 – Examples of the Bayfront Residential Character Area

This character area occurs in conjunction with naturally occurring bays, rivers, and coves. It is characterized by seasonal and year-round residences which are situated along the waterfront. The character area is often bordered by an adjacent Salt Marsh character area, or the waterfront at the edge of the neighborhood street grid. This zone is commonly found on the northwest side of the barrier islands, or on the mainland along salt marshes, bays, or the rivers that feed them. The Bayfront Residential character area frequently appears as suburban residential development from the street, incorporating homes and lawns stitched together with sidewalks, street trees, and neighborhood roads. Glimpses of bays or rivers may be available between densely situated homes. Housing types include single family homes, duplexes, and town homes. Often the residential neighborhoods are flanked by sandy beaches, marinas, and/or break-walls. The bayfacing side of properties in this character area are designed to maximize water usage and views by incorporating decks, porches, docks, boat lifts, and other boating facilities. This character area is visually separated from the Ocean by the barrier islands which are typically dominated by the Residential Beachfront, Undeveloped Beach, Commercial Beachfront, or Atlantic City character areas. Often, oceanfront development becomes a significant feature in the views from the Bayfront Residential character area. These views are typical from within the Bayfront Residential character area along the western shore of Absecon Bay, Reeds Bay, and Lakes Bay. However, where the shoreline is not dominated by development (west of Little Egg Harbor and north of Great Bay), extensive outward views across the bays or rivers can be available from within this character area and often extend over the Undeveloped Bay and occasionally beyond the barrier island dunes to the Ocean. Along with typical residential activities, user activity in this zone includes boating, and recreation activities such as fishing and nature viewing.

Dredged Lagoon





Inset 1.2-8 – Examples of the Dredged Lagoon Character Area

This character area typically occurs in conjunction with the Undeveloped Bay or Salt Marsh character areas and is characterized by residential neighborhoods with seasonal and year-round homes situated along an artificial dredged waterway. Marinas associated with the housing developments are sometimes included in this character area. Neighborhoods in this character area are arranged along a tight, well-organized grid of local streets and water channels that run between the backyards of adjacent residences. Individual homes have private docks along these channels which provide access to the adjacent waterway. The separation of land created by water channels and roadways ending in cul-de-sacs allows individual streets to function as discrete neighborhoods, which together, comprise a larger residential community. Consequently, communities within this zone have a more spacious and spread-out character when compared to the neighboring landlocked subdivisions within the ZVI. Depending on a residence's position within the zone, outward views across open expanses of water may be available, but in general views from this character area are screened or tightly framed by nearby residences and moored boats. Properties on the periphery have more extensive views of the bay, salt marsh, and occasionally the ocean beyond the intervening barrier islands. However, outward water-level views from the dredged channels are generally completely screened by the structures that line the channels. Examples of the Dredged Lagoon character area within the ZVI include developments in Beach Haven West, Sunrise Beach, and Windsor Park. Typical user activities in this character area include residential activities, boating, and fishing.

Inland Residential





Inset 1.2-9 – Examples of the Inland Residential Character Area

The Inland Residential character area includes residential development located inland of the Oceanfront and Bayfront Residential character areas. This zone is characterized by low-, medium-, and high-density residential neighborhoods which occur throughout the VSA and ZVI. Development patterns in this character area include quaint walkable neighborhoods with sidewalks along streets which typically run perpendicular to the ocean or bays and abut the Oceanfront, Bayfront Residential, or Dredged Lagoon character areas. This character area also includes sprawling suburban subdivisions which primarily occur within the mainland portions of the VSA, where the presence of the ocean and bays becomes less apparent due to the screening provided by adjoining Forest, Village/Town Center, and Commercial Strip Development character areas. While residential structures such as homes and apartments are the main building type in this character area, schools and school grounds, and occasional commercial structures within a neighborhood may also be included. The common visual characteristics of this character area include relatively closely situated homes and limited outward views. Home types within this character area include single and multifamily residences which vary in size, age, and style. Although outward views from this character area are typically restricted by vegetation and buildings/structures within and surrounding the neighborhood, where this character area occurs closer to the Ocean, views down residential roadway corridors with minimal vegetation may extend to adjacent dunes, and/or the ocean and bays. Typical user activities in this character area include home and yard use/maintenance and local travel.

Town/Village Center





Inset 1.2-10 - Examples of the Town/Village Center Character Area

The Town/Village Center character area includes well-defined town/village center areas which occur in small pockets on the barrier islands and larger villages on the mainland. This zone is characterized by moderateto high-density residential and commercial development occurring along a main street or cluster of mixed use blocks. This human-scale development features ample street trees, detailed streetscape treatments, massed commercial properties featuring vibrant window displays, and public amenities such as benches, water features, and public art. Examples of this character area within the ZVI include town center areas within Sea Isle City and the City of Brigantine. Buildings within the town centers include churches, town halls, libraries, and large mixed use properties. They are generally surrounded by residential buildings which increase in density near the ocean and bay shorelines. In popular beach towns, tightly spaced commercial buildings and structures that cater to seasonal visitors and/or tourists may be the dominant feature within the Village/Town Center character area. Buildings are generally 2 to 3 stories in height and are organized along a grid which focuses views along the streets. Vegetation within this zone is typically limited to regularly placed street trees and successional vegetation associated with vacant land parcels. The landscape is dominated by human-made elements, including buildings, cars, pavement (roads, parking lots, and sidewalks), light posts, and other infrastructure. Long-distance outward views are generally only available along the outskirts of Village/Town Center character area, and these views are usually at least partially screened by existing buildings/structures and/or vegetation. Most of the well-defined Village/Town Center areas within the VSA on mainland New Jersey occur at historic centers of commerce in former villages now consolidated into larger towns with more sprawling commercial and residential development along the periphery. These inland examples of the Town/Village Center character area do not typically occur within the ZVI. However, the aforementioned beach communities in Sea Isle City, Margate City, Ventnor City, and Brigantine occur on the barrier islands and may have discrete, tightly framed outward views toward the ocean. Users within the Town/Village Center character area typically include residents and tourists shopping, dining, and sightseeing. During the summer months, these areas can become crowded with tourists, as the commercial offerings typical of this character area draw tourists and vacationers from nearby beaches and neighborhoods.

Commercial Strip Development





Inset 1.2-11 – Examples of the Commercial Strip Development Character Area

This character area typically occurs inland but may be connected to the waterfront by way of the Oceanfront Commercial character area or Residential Beachfront character area. It includes strip commercial development located along wide boulevards, around the edges of village centers, and sporadically throughout the VSA. The visual character of this character area is generally defined by modern, unadorned strip or stand-alone building stock, on-site parking, and circulation patterns favoring vehicular modes of transportation. Vegetation is limited to landscaped grounds, sparse street tree plantings, and narrow grassy medians and tree plantings within and adjacent to paved areas. Properties within this zone typically include retail businesses, restaurants, convenience stores, automobile dealers, shopping centers, malls, and office buildings. Outdoor commercial uses such as marinas and amusement parks may also be categorized within this character area. Foreground and middle ground views often appear cluttered when multiple properties utilize large, colorful signage along roadways. Views can also look stark, for example, when a series of standalone office buildings are set deep into parking lots. Examples of this character area within the ZVI can be found on the mainland in proximity to the Garden State Parkway as it crosses through the VSA and on the barrier island communities of Seaside Heights Borough, Ship Bottom Borough, Beach Haven Borough, Brigantine City, Margate City, or Wildwood Crest Borough. This character area is typically bordered by the Inland Residential and Town/Village Center character areas. The presence of commercial structures, visual clutter, and the neighboring developed character areas generally eliminates the opportunity for outward views from within this character area. However, when the Commercial strip Development character area borders the Residential Beachfront character area, discrete, tightly framed outward views may be available from streets oriented toward the ocean. Users within this zone generally include residents and tourists involved in destination driven activities such as dining or shopping.

Atlantic City





Inset 1.2-12 – Examples of the Atlantic City Character Area

The Atlantic City character area occurs on Absecon Island within Atlantic City, primarily east of Albany Avenue (US Route 40). This character area is defined by an eclectic mix of large casino/hotel properties, single family homes, multi-family residential complexes, large and small commercial properties, traditional mixed use downtown structures, and vacant lots. A wide range of urban uses are present in a variety of conditions. Traditional or expected city center patterns of development are frequently interrupted by urban renewal demolition, poorly maintained structures, or new construction. There is a general gradient in which casinos located closer to the boardwalk and beach, are backed by large chain hotels and motels, mixed use commercial, then residential townhouses and apartments finally giving way to small lot single-family residences. However, casinos and affiliated tourist accommodations/attractions such as hotels, shopping, and amusement areas are scattered throughout this character area. The resulting scene is visually complicated as multiple land uses and building styles are observable from almost any viewpoint within the city, a condition exacerbated by a high concentration of vacant lots scattered throughout the zone. Human activity is high, especially on the boardwalk and beaches which act as frontage to the large casinos. Large crowds primarily reflect casino visitors, tourists, and those employed to maintain this industry (including a variety of staff and maintenance workers). Activity within this character area primarily involves city residents conducting the routines of daily living. Outward views from this character area are available from the bayfront shoreline looking out toward the Salt Marsh or Undeveloped Bay character areas, upper stories of the taller hotel, casino, or apartment complex properties looking out toward the Ocean. Views within this character area are typical of a city center developed primarily in the late 19th and early 20th century and heavily affected by the policies and practices of Urban Renewal. This translates to 2-3 story mixed use structures with commercial businesses at street level and apartments above on major transit corridors. Tightly spaced two or three family homes occur on the minor cross-streets interspersed with 1950s style public housing, modern infill, and vacant lots. On the outskirts of this dense urban area, single family residences provide a transition to a more suburban development pattern. Within the interior areas of the Atlantic City character area outward views are restricted by the dense urban development and typically do

not extend beyond the immediate foreground. Views toward the ocean are entirely blocked by the presence of high-rise buildings which crowd the waterfront.

Limited Access Highway





Inset 1.2-13 – Examples of the Limited Access Highway Character Area

The Limited Access Highway character area includes primary, high-volume vehicular travel corridors that briefly enter the ZVI and are dominated by automobiles, pavement, guardrails, and signs. Within the ZVI, this zone is represented by fragments of State Route 444/Garden State Parkway and the Atlantic City Expressway. Views from within this character area are generally focused on the roadway and associated traffic. Travel is at moderate to high speed, and outward peripheral views are fleeting. The surrounding scenery is variable but dominated by adjacent buildings/structures and trees, with limited elevated long-distance views available. When this character area passes through the Undeveloped Bay character area via bridges, views of the bays, marshes and surrounding character areas become available, along with long-distance views in the direction of the ocean.

Forest





Inset 1.2-14 – Examples of the Forest Character Area

The Forest character area contains tracts of forestland which occur sporadically throughout the ZVI. Within this character area two primary forest types are represented; the New Jersey Pine Barrens (including the Atlantic Coastal pine barrens ecosystem) and the coastal scrub (maritime) forests which typically occur in association with the Salt Marsh character area and provide a transition into the pine barrens. The New Jersey Pine Barrens typically include pitch pine and scrub oak forests. The forest understory is made-up of mixed shrubs, saplings, and herbaceous vegetation including orchids and other unique plant species. Due to environmental protections or lack of development suitability, these forest areas typically occur between inland residential areas and the Undeveloped Bay character area. The Forest character area also frequently coincides with protected lands such as the Tuckahoe WMA and Manahawkin WMA which occur within a small portion of the ZVI. Larger tracts of forestland with public access points typically include maintained recreation areas, such as state parks or nature preserves such as Island Beach State Park in Seaside Park. Scattered residences, local roads, small fields, and wetlands may occur within this zone but are subordinate to the visual dominance of the surrounding forest. Landform within this zone is relatively flat, although gently rolling topography is present in places. Notable areas of forest land within the ZVI include portions of the Swan Bay WMA, Stafford Forge WMA, and Bass River State Forest. The maritime forest is characterized by dense woody and herbaceous vegetation, typically less than 20 feet in height, providing a transition between bayfront salt marshes and taller inland forests. Long-distance views within the Forest character area are generally partially to fully screened by the forest overstory. When present, outward views typically occur on the periphery of the Forest character area. This is particularly true where the Forest character area abuts emergent wetlands or open water associated with the Undeveloped Bay or Salt Marsh character areas where the vegetation becomes more stunted and sparse. Occasional observation towers situated within the Manahawkin WMA also provide opportunities for sweeping views from above the treetops over the bays and to the ocean. Users within the Forest character area include recreationalists and tourists who enjoy activities including hiking, fishing, birdwatching, hunting, and sightseeing.

Salt Marsh





Inset 1.2-15 - Examples of the Salt Marsh Character Area

This character area is characterized by coastal ponds and marshes that are connected to inlets or bays with one or more relatively narrow channels allowing tidal water to periodically flood portions of the character area. This character area occurs commonly along the bayside coastlines of the mainland and barrier islands throughout the VSA. Within the ZVI this character area is represented by the Great Bay Boulevard, Absecon, Upper Barnegat Bay, and Cape May Wetlands WMAs, and portions of the Cape May and Edwin B. Forsythe NWRs. These areas are typically characterized by an expanse of low-growing herbaceous wetland vegetation interspersed with pockets of open water. Because these areas are subject to the influence of tides, they can include exposed mud banks and flats along their edges at low tide. The Salt Marsh character area also hosts some coastal scrub vegetation and is frequently bordered by the Forest character area. This transition zone may include infrequent woody shrubs and stunted trees on small upland patches. Views from within the Salt Marsh character area beyond these transition zones often offer sweeping views across the Undeveloped Bay character area. Often these views are interrupted by the barrier island development associated with Atlantic City, Beach Haven Crest, and Margate City in the middle ground or background. However, when the barrier island lacks development in areas such as the Edwin B. Forsythe NWR and Little Beach, the Salt Marsh character area may have views beyond the barrier islands and occasionally out into the ocean. Recreational activity in the form of boating, fishing (including clamming and crabbing), hunting and wildlife observation is common within the Salt Marsh character area. However, these sensitive environments do not offer developed recreational amenities.

Commercial Beachfront





Inset 1.2-16 – Examples of the Commercial Beachfront Character Area

This character area typically occurs in the major beach towns on the coast within the VSA. It consists of a wooden boardwalk or walkway, ocean piers, and commercial development bordering a shoreline beach or ocean. Commercial uses include adventure/amusement piers, recreation centers such as the Ocean City Music Pier and commercial structures such as snack shops or bars. Structures in this character area range in size from small single story snack shops to multi-story municipal structures or piers. Use and activity in this character area is similar to that which occurs in the Commercial strip Development character area, although in this case the businesses treat the boardwalk as street frontage to accommodate pedestrian rather than vehicular access. The type and intensity of activities in this character area are largely influenced by tourism and are seasonal in nature. These areas are used heavily during the late spring and summer months, and minimally or not at all during the fall and winter. Topography is typically level along the boardwalk, with beaches that slope gently downward toward the shoreline. Vegetation may be present in the form of ornamental shrubs, but mostly consists of dune grass along the edge of the adjacent beaches. The availability of open views toward the ocean varies within this character area. In some areas, views will be screened by dunes or framed by commercial structures, piers, jetties, signs, and other human-made structures. However, in other areas, such as along the sandy shorelines or looking out from a pier, viewers will be afforded open views of neighboring piers, sandy beaches, and the ocean. One side of this character area is always connected to the Open Ocean character area, with surrounding landscape on the inland side typically within the Commercial Strip Development character area, but also at times including the Recreation, Residential Beachfront, or Inland Residential character areas. The boardwalk area in Atlantic City has a prominent commercial component that not only lines the inland beach front, but also extends across beaches and over the ocean in the form of large adventure piers/amusement parks containing midway areas and a variety of carnival rides accented by flashing and colorful light features. Beaches in this area during the tourist season (Memorial Day to Labor Day) are heavily trafficked with a near constant presence of crowds bringing with them a variety of colorful beach equipment such as beach umbrellas, chairs, towels, and a need for trash receptacles, lifeguard chairs, and maintenance equipment storage sheds. Individual beaches not separated by dunes often blend together due to the high and continuous volume of users,

however, some locations are dedicated to specific activities such as beach volleyball or extensions of hotel bars. These locations generally offer views to the horizon, but these views are frequently interrupted by the presence of large structures and piers that extend up to 800 feet into the ocean, eliminating major portions of the horizon from view.

Examples of this character area within the ZVI include The Atlantic City Boardwalk, Wildwood City Boardwalk, Ocean City Boardwalk, Seaside Heights Boardwalk, and Point Pleasant Beach Borough Boardwalk. Agriculture





Inset 1.2-17 - Examples of the Agriculture Character Area

This character area is a minor component of the VSA which is primarily found inland, outside of the ZVI. Locations of this character area within the ZVI include small areas within Galloway Township and Hamilton Township. Larger pockets of this character area located on the western edge of the VSA in Buena Vista, Hammonton, Tabernacle, and Plumsted Townships are not within the ZVI. Outside of these large areas, instances of this character area include smaller farm lots scattered throughout the VSA. This zone is characterized by flat stretches of field which provide open views of crops, hedgerows, livestock, farm buildings, equipment, and homes. Crops include blueberries, corn, and a variety of vegetables. Orchards and equestrian facilities are also common. These areas are viewed by farmers and farm staff working the land, families who inhabit adjacent residences, and drivers and passengers traveling on roads that cross through this character area. The Agriculture character area is most commonly adjacent to the Inland Residential and Forest character areas, which frame or limit outward views depending on their spatial relationship.

Recreation





Inset 1.2-18 – Examples of the Recreation Character Area

The Recreation character area encompasses a range of areas intended primarily for outdoor leisure and play. On the mainland, these areas include golf courses, sports fields, athletic complexes, campgrounds, and inland beaches. On the barrier islands these areas include community parks, small athletic complexes their parking areas, and other developed areas within state parks. This character area typically contains landscaped or human-made features which support recreational activities; however, the visual character of these features varies widely. Golf courses, viewed by golfers or adjacent residents, feature long, sweeping views of contoured lawns, water features, and sand traps, intentionally framed by forest edge. By contrast, barrier island parks and athletic complexes are viewed by a variety of residents and tourists who use or pass by the site. These areas tend to be more visually cluttered with parking lots, baseball diamonds, tennis and basketball courts, restroom facilities, benches, pavilions, gardens, bike racks, and other auxiliary park structures. Within the ZVI this character area is most commonly represented by shoreline recreation on barrier islands, locations associated with state park structures at elevations rising above the surrounding dunes and beach, and in locations where a recreation area may be situated at the end of a street oriented toward the Projects. On the mainland within the ZVI this character area is most commonly located adjacent to the Undeveloped or Salt Marsh character areas to provide views overlooking the bay. Views from this character area either look out the ocean or bay, or into a densely developed adjacent character area such as Commercial Beachfront, Town/Village Center, Residential Beachfront or Bayfront Residential.

Inland Open Water





Inset 1.2-19 – Examples of the Inland Open Water Character Area

This character area occurs throughout the mainland portion of the VSA. Its dominant visual feature is an open expanse of flat water that is enclosed by a vegetated shoreline. The shorelines are typically dominated by deciduous and coniferous trees but are occasionally interrupted by human-made features, such as homes, boat launches, bridges, and roads. Human activity on these waterbodies and along the shoreline includes boating, kayaking, fishing, and swimming. Shoreline trees define the visible background in most views from inland lakes and ponds. Several waterbodies associated with active or reclaimed extraction mines are also included within this character area. Given their inland locations and extensive vegetative screening, views of the ocean from this character area are rare. As such, very few inland waterbodies within the VSA also occur in the ZVI. Exceptions include the Atlantic City Reservoir, Hawkins Creek, and several tributaries draining into the extensive network of bays though out the VSA.

Industrial/Developed





Inset 1.2-20 – Examples of the Industrial/Developed Character Area

The Industrial/Developed character area includes developed landscapes defined by a variety of utilitarian functions, which are visually linked by a stark, severe aesthetic. Elements commonly found in this zone include expansive open areas, pavement, utility structures and buildings, screening or security fencing, machinery, equipment, and raw materials. Land uses include airports, military grounds, mines, power stations, industrial parks, warehouses, self-storage facilities, municipal maintenance lots and transit stations. This character area is found throughout the VSA at a variety of scales. On the barrier islands, the Industrial/Developed character area is present on very small sites on the interior or bay side of the islands in the form of power stations, maintenance lots, parking areas, and small airports including Ocean City Municipal Airport and Bader Field Airport. Views from this character area can be extensive when the sites are large, open, and adjacent to the Salt Marsh or Undeveloped Bay character area, as in the case of airports. However, it is more typical for views from the Industrial/Developed character area on the barrier islands to be limited because the sites are small, fenced, and adjacent to densely developed character areas such as Inland Residential or Commercial Strip Development. This condition is exemplified by municipal maintenance lots and small industrial businesses and materials storage lots. The USCG Training Center on Cape May is the singular instance of an Industrial/Developed site with available views of the Ocean character area.

On the mainland, the Industrial/Developed character area is found throughout the VSA on larger sites. Substantial instances of this character area include the Monmouth Executive Airport, Joint Military Base McGuire-Dix in Lakehurst, Atlantic City International Airport, Dun Rite Sand & Gravel Mine, Lakewood Industrial Park, Woodbine Municipal Airport, and Cape May County Airport. These large sites are most commonly adjacent to the Forest character area, which buffers their loud, unsightly, or otherwise intrusive nature from neighboring properties. Open industrial sites offer extensive views within themselves, but the views usually extend only to the property's edge, which is typically bordered by dense forest vegetation. Smaller instances of this character area are scattered throughout the mainland and include recycling centers, active and abandoned mine sites, industrial parks, transit stations, military training centers, self-storage

facilities, and industrial fabrication, warehouse, and distribution facilities. These sites are typically screened by Forest character area, except in cases when they are adjacent to the Commercial Strip Development character area as a component of a regional commercial center.

In general, views into and acres the Industrial/Developed character area are interrupted by fencing, trees, and brush, although infrequent glimpses of the stark and utilitarian interior may appear through periodic gaps in the perimeter buffer. Human activity in this zone is limited to training or work by employees of the various military operations or business enterprises. It also includes commuting when the character area takes the form of a transit station or parking area.

1.2.4 Visually Sensitive Resources

Visually sensitive resources (VSRs) include resources that have been identified in publicly available documents and GIS databases provided by national, state, or local governments, organizations, and/or Native American tribes as important sites which are afforded some level of recognition or protection. Avoiding or minimizing impacts to these resources is an important consideration in the planning stages of a project. For the VIA, a desktop inventory of visually sensitive resources was prepared for the entire VSA. Additional resources were also identified through consultation with BOEM, NJDEP, Project stakeholders and during the field verification process. These resources were identified, and requisite GIS layers were compiled into a database for documentation and mapping purposes. A GIS analysis was then conducted to determine how many of these resources occur within the ZVI and would require further evaluation. Attachment C lists all identified VSRs that occur within the VSA and those within the ZVI (as determined by the lidar viewshed analysis). A summary of the results of this GIS analysis for VSRs occurring within the ZVI is presented in Table 1.2-2, below.

Table 1.2-2 Visually Sensitive Resources Within the ZVI

Type of Resource	Source	Occurrences of Resource Within ZVI
National Historic Landmarks	National Park Service Public Database	2
Properties Listed on the National or State Registers of Historic Places	National Park Service Public Database	15
Properties Determined Eligible for National or State Registers of Historic Places		43
National Natural Landmarks	National Park Service Public Database	1
State/Local Designated Scenic Areas and Overlooks	NA	0
Scenic Area of Local Significance	NA	0
State Designated Scenic Overlooks	NA	0
National Wildlife Refuges	U.S. Fish and Wildlife Service Public Database	2

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Type of Resource	Source	Occurrences of Resource Within ZVI
State Wildlife Management Areas	NJDEP Division of Fish & Wildlife - Wildlife Management Areas	16
National Parks	NA	0
State Parks	NJDEP Bureau of GIS	3
State Nature and Historic Preserve Areas	NJDEP Bureau of GIS	12
National Forests	NA	0
State Forests	NJDEP Bureau of GIS	3
National Recreation Areas and/or Seashores	NA	0
State Beaches	NA	0
National or State Designated Wild, Scenic, or Recreational Rivers	National Wild and Scenic Rivers System	1
Highways Designated or Eligible as Scenic	NJ Scenic Byways Program	1
National Historic/Recreation/Heritage Trails	NJDEP Bureau of GIS	1
State Fishing and Boating Access Sites	NJDEP Bureau of GIS	9
Lighthouses (not NRHP-Listed or State Historic-Listed)	NJDEP Bureau of GIS	1
Public Beaches	Municipal Document Review	35
Environmental Justice Areas (State and Federal)	EDR EJA Analysis	86
Ferry Routes (Occur across multiple states)	NA	0
Seaports (Commercial Maritime Facilities)	NA	0
Other State Land with Public Access	NA	0
Total		231

The locations of the visually sensitive resources are illustrated in Figure 1.2-3 at the conclusion of this section. Brief descriptions of the types of visually sensitive resources that occur with the ZVI are presented below:

Historic Sites and National Historic Landmarks

Authorized by the National Historic Preservation Act of 1966 (NHPA), the National Register of Historic Places (NRHP) is maintained by the National Park Service (NPS) as part of a national program to coordinate efforts to identify, evaluate, and protect historic and archeological resources. According to the NPS website, the NRHP is the official list of designated historic places worthy of preservation, and National Historic Landmarks (NHL) are historic places that hold historic significance and are designated by the Secretary of

the Interior. The New Jersey State Register of Historic Places (SRHP) is maintained by the State Historic Preservation Office (SHPO) and includes resources that the state has determined are worthy of preservation, but which have either not been determined eligible for inclusion or have not been evaluated for listing in the NRHP. A *Historic Resources Visual Effects Analysis* (HRVEA) prepared for the Projects (EDR, 2021) contains additional details on S/NRHP and NHL properties and districts within the VSA.

Within the ZVI, EDR identified 43 historic districts and individual properties listed or eligible for listing on the S/NRHP and two properties or districts listed as National Historic Landmarks (NHL). These properties include historic districts, homes, lighthouses, churches, and government buildings (see also EDR, 2021). The two NHL sites include the Atlantic City Convention Hall in Atlantic City and Lucy the Margate Elephant in Margate City. The resources occur approximately 11.4 mi and 14.4 mi from the Projects, respectively.

National Natural Landmarks

The National Natural Landmarks (NNL) Program identifies sites that contain outstanding biological and geological resources and encourages the conservation of these areas (NPS, 2021). Manahawkin Bottomland Hardwood Forest is the only designated NNL within the ZVI and is located approximately 21.0 miles from the Projects.

National Wildlife Refuges

The National Wildlife Refuge (NWR) System, managed by the U.S. Fish and Wildlife Service (USFWS), is a system of public lands and waters set aside to conserve the nation's fish, wildlife, and plants (USFWS, 2021). Two NWRs occur within the ZVI. The Edwin B. Forsythe NWR is located along the northern coast of New Jersey, approximately 9.2 miles from the nearest proposed WTG. The Cape May NWR, located in southern New Jersey, is located 22.9 miles from the Projects.

State Wildlife Management Areas

There are 16 State Wildlife Management Areas (WMAs) within the ZVI. These state-owned lands are managed to provide wildlife habitat and accommodate wildlife-related recreation (hunting, bird watching, etc.). The closest WMA to the WTGs is the Absecon WMA, located along the central New Jersey coast, approximately 10.3 miles from the nearest proposed WTG.

State Parks

Three State Parks occur within the ZVI Corson's Inlet State Park is located along the southern New Jersey Coast, approximately 21.3 miles from the Projects. This oceanfront park offers hiking, fishing, crabbing, boating, and sunbathing (NJDEP, 2020). Island Beach State Park and Barnegat Lighthouse State Park are both located along New Jersey's northern coast at approximately 26.9 miles and 27.2 miles, respectively, from the nearest WTG. Island Beach State Park is a 10-mile-long barrier island between the Atlantic Ocean and Barnegat Bay that offers swimming, picnicking, bicycling, horseback riding, sailboarding, surfing, scuba diving, and hunting (NJDEP, 2020b). Just to the south is Barnegat Lighthouse State Park, which features the Barnegat Lighthouse, as well as recreational opportunities such as hiking trails, fishing, wildlife viewing, and picnicking (NJDEP, 2020c).

State Nature Preserves

Twelve State Nature Preserves occur within the ZVI. The closest nature preserve to the Projects is North Brigantine State Natural Area, located approximately 8.9 miles from the nearest proposed WTG. The natural

area is located on the central New Jersey coast and is part of the longest stretch of undeveloped barrier island beach in the state. It provides shorebird habitat, coastal dunes, and rare species habitat. The natural area also provides recreational opportunities such as walking, wildlife viewing, sunbathing, and fishing (NJDEP, 2018).

State Forests

Three State Forests occur within the ZVI. Bass River State Forest, located approximately 18.0 miles from the nearest WTG, is the closest State Forest to the Projects. The forest provides recreational opportunities such as hiking, picnicking, camping, and hunting, as well as swimming, fishing, boating, and canoeing on Lake Absegami (NJDEP, 2020d). Wharton State Forest is located approximately 23.7 miles at its closest point from the Projects. The forest is the largest single tract of land within the New Jersey State Park System, totaling 122,880 acres, and includes rivers and streams for canoeing, hiking trails, unpaved roads for mountain biking and horseback riding, and lakes, ponds, and fields for wildlife viewing (NJDEP, 2020e). Belleplain State Forest is located approximately 26.7 miles from the Projects. The forest was established for recreation, wildlife management, timber production, and water conservation and includes Lake Nummy, a popular swimming, boating, and fishing area (NJDEP, 2020f).

National or State Designated Wild, Scenic, or Recreational Rivers

The National Wild and Scenic Rivers System was created by the Wild and Scenic Rivers Act of 1968 to preserve certain rivers with outstanding natural, cultural, and recreational values in a free-flowing condition. Congressionally designated wild and scenic rivers are managed by the Department of Agriculture (Forest Service) or Department of the Interior (Bureau of Land Management, Fish & Wildlife Services, National Park Service). Within the ZVI there is one such designated resource, the Great Egg Harbor Wild and Scenic River, located approximately 19.6 miles at its closest point from the Projects.

Highways Designated or Eligible as Scenic

One Scenic Byway, the Southern Pinelands Natural Heritage Trail, is located within the ZVI approximately 16.7 miles at its closest point from the Projects. The state-designated scenic byway is a 130-mile route located in the Pinelands National Reserve in southern New Jersey (NJDOT, 2018).

National Trails

The New Jersey Coastal Heritage Trail was established by federal legislation under Public Law 100-515 in 1988 to promote awareness, stewardship, and protection of natural and cultural resources along 300 miles of New Jersey's Atlantic coast and Delaware Bay. The trail is managed in cooperation by the National Park Service, the State of New Jersey, and many other public and private organizations. The trail is divided into five regions and links significant natural and cultural sites, with a focus on maritime history, coastal habitats, wildlife migration, historic settlements, and relaxation and inspiration (NPS, 2012). The destinations along the trail have been identified in other VSR categories.

State Fishing and Boating Access

Within the ZVI, there are nine state-owned and/or -managed fishing and boating access sites. The majority of these sites provide access to the bays and sounds of the Atlantic Ocean, and all are at least 11.5 miles from the Projects.

Lighthouses

There are two lighthouses that are not designated NRHP historic sites within the ZVI. The closest, Tucker's Island Lighthouse is approximately 17.8 miles from the nearest proposed WTG. Sea Girt Lighthouse is located approximately 52.8 miles from the Projects.

Public Beaches

There are 36 public beaches within the ZVI (in addition to the previously mentioned State Beaches). The nearest of these beaches, Atlantic City Beach, is approximately 10.4 miles from the nearest proposed WTG.

Environmental Justice Areas

Implemented in 1994 by Executive Order 12898 - Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations has a purpose of directing attention to a project's environmental and human health effects on minority and low-income populations. While this order addresses actions undertaken by federal agencies, states have additionally identified parameters to define Environmental Justices areas at the state level to mitigate the potential for disproportionately high and adverse human health of environmental impacts on minority, low-income, and/or Indian tribes and indigenous communities and populations from state actions. There are 87 Environmental Justice Areas identified within the ZVI, the closest (340010101052) is located in Atlantic City, approximately 9.9 miles from the nearest WTG.

Although not formally inventoried, it should be noted that the ZVI also includes other public resources that could be considered regionally or locally significant or sensitive due to the type or intensity of land use they receive. These include local park and recreational facilities, campgrounds, golf courses, local nature preserves, tourist attractions, fish and game clubs, schools, churches, cemeteries, areas of concentrated human settlement, and heavily traveled roads. Ocean bays and sounds within the ZVI could also be considered sensitive visual resources. These areas provide recreational opportunities, such as boating, fishing, kayaking, cruising, swimming, and wildlife viewing, and historic villages along these bays offer waterfront dining, shopping, and other tourist attractions and accommodations.

1.2.5 Local Plan Review

Local comprehensive plans, recreation and open space plans, and conservation plans may also identify important visual/aesthetic resources defined by communities. To address potential visual resources identified in these local and state planning documents, EDR first identified municipalities that have greater than 0.5 sq mi within the ZVI and then quantified the percent of potential visibility within each. For those municipalities that have greater than 5 percent of their land area within the ZVI, each of the applicable plans were consulted to determine the existence of resources important to those communities. Appendix B2 includes an inventory of each municipality that includes greater than 5 percent ZVI presence as well as an overview of the types of resources identified in these plans.

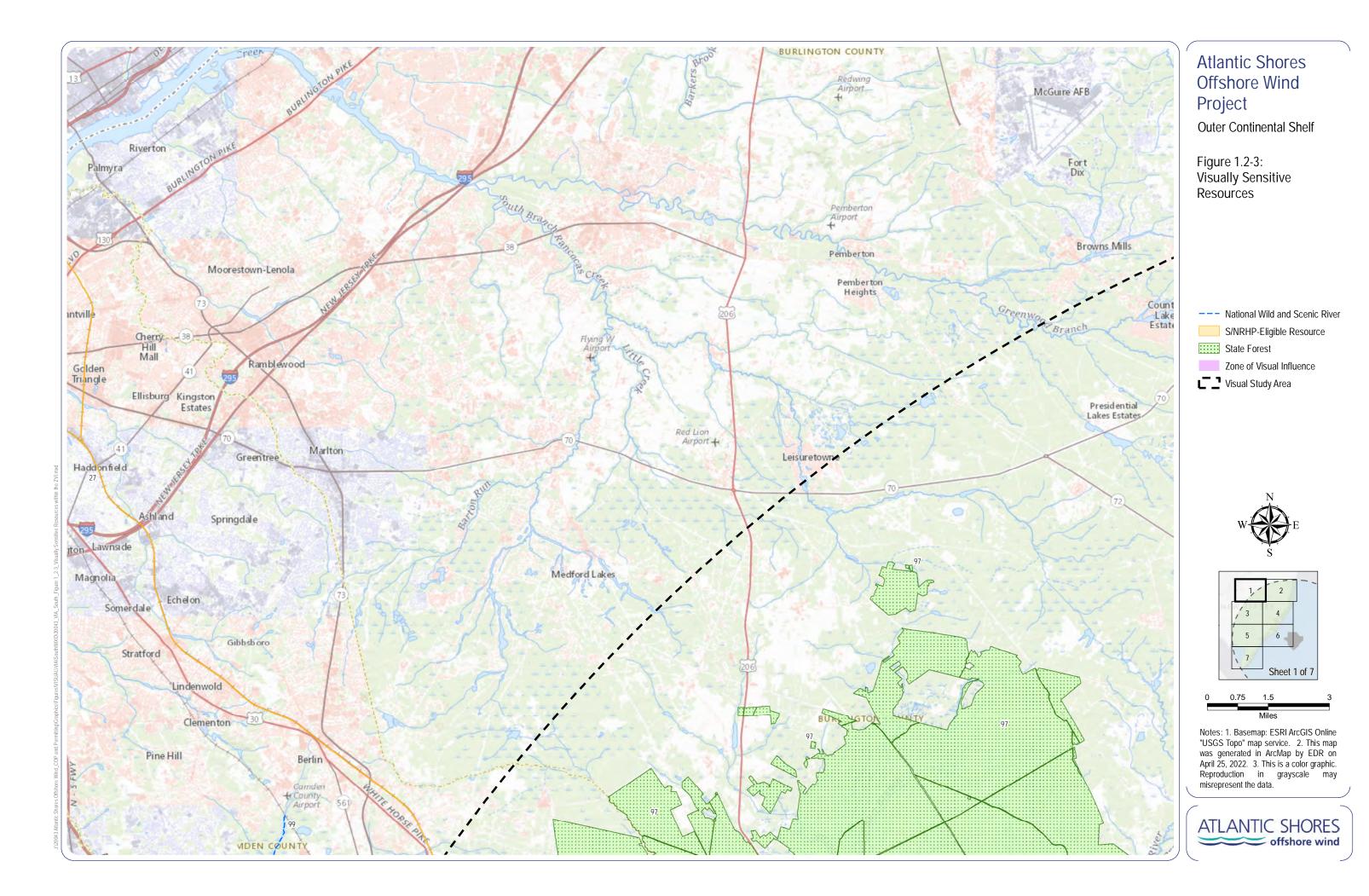
Table 1.2-4, below, lists the municipalities that were identified using the criteria listed above.

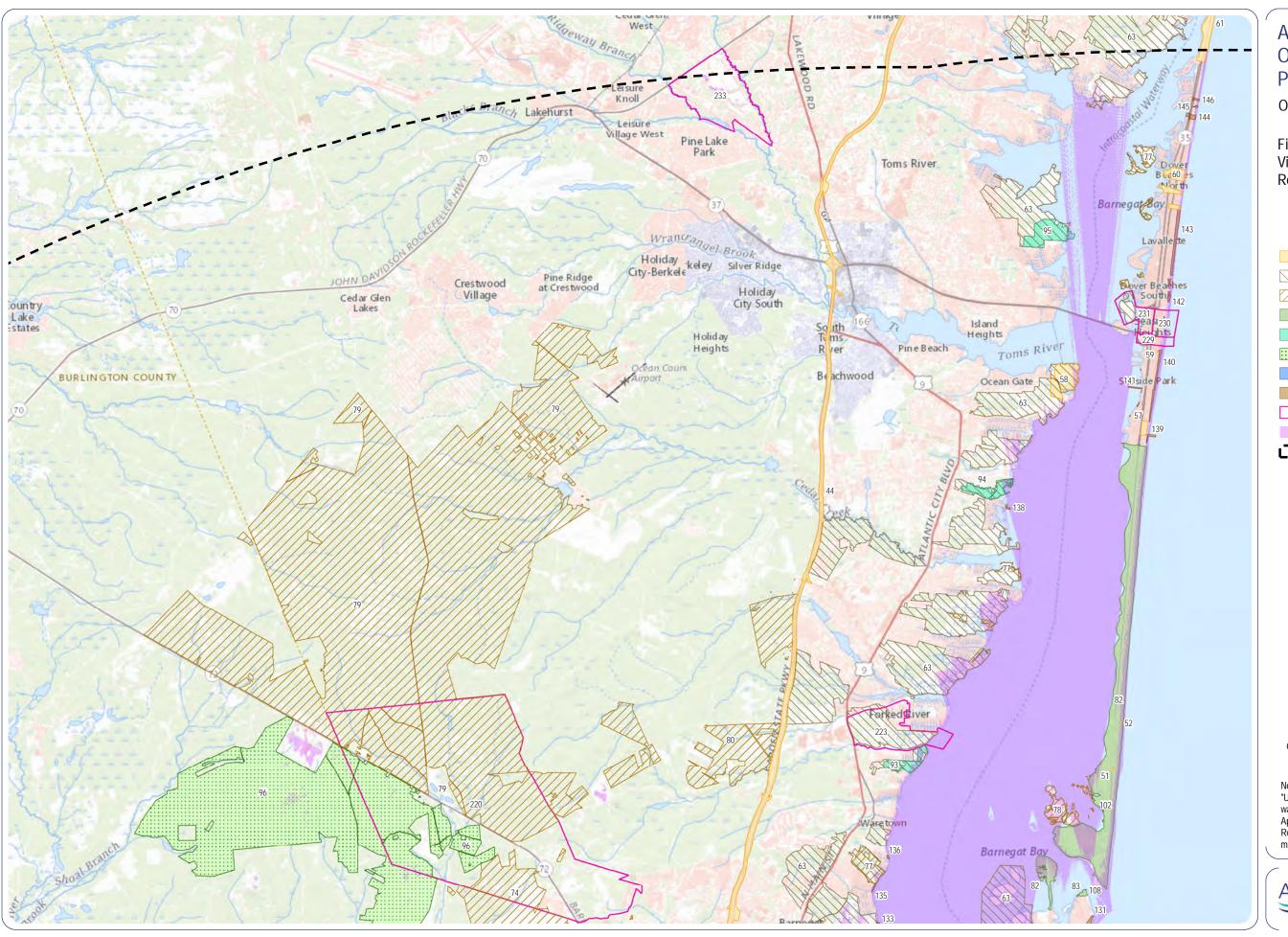
Table 1.2-4 Municipalities With Greater Than Five Percent ZVI Content

Municipality or County	Total Area (sq miles)	Area Within ZVI (sq miles)	Percent Area within ZVI(%)	Identified Planning Document(s)	
Atlantic Count	у				
Atlantic				Atlantic County, New Jersey Master Plan (2018)	
County	610.3	101.7	16.7	Atlantic County, New Jersey Open Space and Recreation Plan (2018)	
Absecon, City of	7.2	2.9	40.6	2016 Reexamination Report (2017)	
Atlantic City	15.9	9.5	60.0	Atlantic City Master Plan (2008) Master Plan Reexamination Report (2016)	
Brigantine, City of	10.7	7.4	68.7	2016 Master Plan Re-examination Report (2016)	
Corbin City	9.0	5.2	58.0	None identified.	
Egg Harbor		10.0	1-0	Egg Harbor Township Master Plan (2002)	
Township	75.5	13.0	17.2	Master Plan Reexamination Report (2017)	
Estell Manor	55.2	6.7	12.2	None identified.	
Galloway Township	111.2	47.7	42.9	Master Plan Reexamination Report (2020)	
Linwood, City of	4.4	1.7	40.2	City of Linwood Master Plan (2002) Master Plan Reexamination Report (2018)	
Northfield, City of	3.6	0.5	13.1	City of Northfield Master Plan Re-examination (2008)	
Pleasantville, City of	7.3	3.0	41.8	Master Plan Elements (2016)	
Port Republic, City of	8.6	1.2	13.7	None identified.	
Somers Point, City of	5.0	1.0	20.8	Somers Point Master Plan Reexamination (2015)	
Ventnor City	2.5	0.6	22.5	2016 Master Plan Reexamination (2016)	
Burlington Coun	ty				
Burlington County	819.7	11.1	1.3	Parks and Open Space Master Plan (2002)	
Bass River Township	78.3	6.8	8.7	None identified.	
Cape May Count	у				
Cape May County	286.0	39.3	13.7	Cape May County Open Space and Recreation Plan (Adopted 2005, Amended 2007)	
				2021 Comprehensive Plan - Editorial Draft (2021)	

Municipality or County	Total Area (sq miles)	Area Within ZVI (sq miles)	Percent Area within ZVI(%)	Identified Planning Document(s)		
or county	iiiics)	miles)	201(70)	Natural Resources Inventory (Adopted 2007, Revised 2010)		
Dennis Township	63.7	5.3	8.3	Master Plan - Land Use Plan (Adopted 2009, Revised 2012)		
				Community Forestry Management Plan 2009 - 2014, Updated for 2015-2019 (2014)		
				Natural Resources Inventory (Adopted 2007, Revised 2010)		
Middle Township	82.7	12.7	15.3	Master Plan Reexamination Report (2010)		
				Master Plan - Land Use Plan Updates (2010)		
North Wildwood, City of	2.5	0.8	30.5	None identified.		
				City of Ocean City Master Plan (Adopted 1988, Revised 2006)		
Ocean City	11.8	4.2	35.8	Ocean City Open Space & Recreation Plan (2014)		
				Master Plan Reexamination Report (2019)		
Sea Isle City	2.8	0.5	17.5	2017 Master Plan Reexamination Report (2017)		
Stone Harbor Borough	2.3	0.6	27.0	Stone Harbor Master Plan (2009) Borough of Stone Harbor Master Plan Reexamination Report (2010)		
				Upper Township Master Plan Reexamination Report and Land Use Plan Amendment (2006)		
Upper Township	68.4	14.2	20.8	Natural Resources Inventory (2006)		
				2018 Master Plan Reexamination Report (2018)		
Ocean County	T	T				
Ocean County	757.5	133.1	17.6	2011 Comprehensive Master Plan (2011)		
Occur county	737.3	155.1	17.0	Open Space, Parks & Recreation Plan (2020)		
Barnegat Township	40.3	8.7	21.7	2011 Barnegat Township Master Plan (2011)		
Beach Haven Borough	2.3	1.1	47.4	Beach Haven Borough Comprehensive Master Plan (2017)		
J.·				Berkeley Township Comprehensive Master Plan (1997)		
Berkeley Township	54.1	10.4	19.1	Environmental Resources Inventory (2012)		
				General Reexamination of the Master Plan (2019)		
Eagleswood Township	18.9	8.4	44.5	None identified.		
				Master Plan (1991)		
Lacey Township	99.6	15.4	15.5	Master Plan Reexamination Report (2012)		
704/13/11/				Lacey Township Master Plan Updated - Revised Land Use Element (2016)		

Municipality or County	Total Area (sq miles)	Area Within ZVI (sq miles)	Percent Area within ZVI(%)	Identified Planning Document(s)		
Little Egg Harbor Township	73.9	39.0	52.8	1999 Master Plan (1999)		
Long Beach Township	23.5	17.1	72.6	Master Plan Update (2017)		
Ocean Township	31.6	10.3	32.5	Ocean Township Master Plan (1990) 2019 Master Plan Reexamination Report (2019)		
Stafford Township	54.6	14.8	27.0	2017 Master Plan Land Use Element (2017)		
Toms River Township	52.7	4.6	8.7	Natural Resources Inventory (2016) Township of Toms River Master Plan (2017)		
Tuckerton Borough	3.7	1.6	44.8	None identified.		

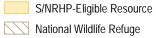




Atlantic Shores Offshore Wind Project

Outer Continental Shelf

Figure 1.2-3: Visually Sensitive Resources



State Wildlife Management Area

State Park

State Nature or Historic Preserve

State Forest

State Fishing and Boating Access

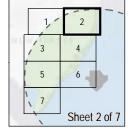
Public Beach

Environmental Justice Area

Zone of Visual Influence

Visual Study Area

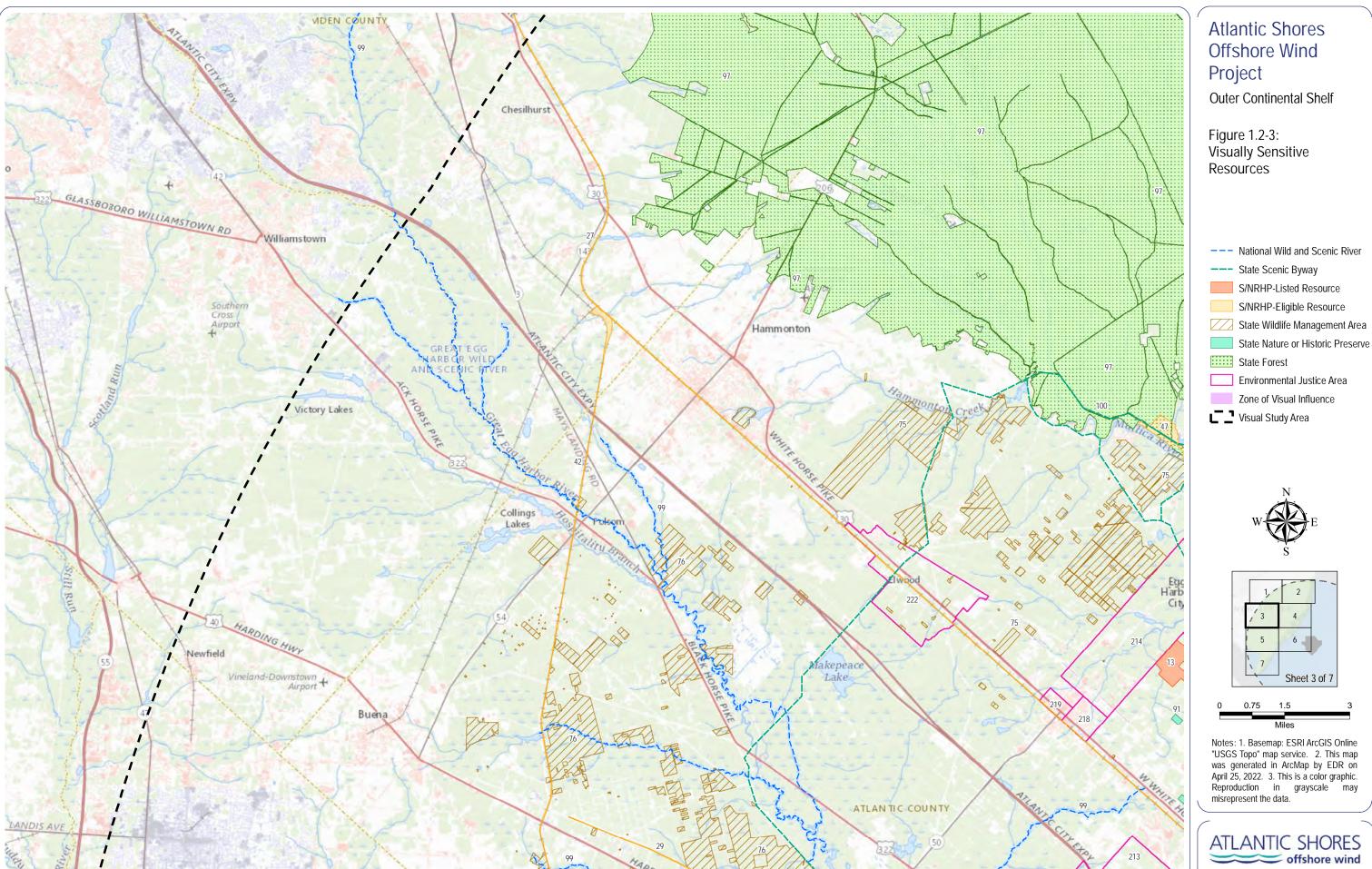






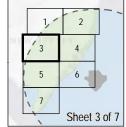
Notes: 1. Basemap: ESRI ArcGIS Online "USGS Topo" map service. 2. This map was generated in ArcMap by EDR on April 25, 2022. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.





--- National Wild and Scenic River

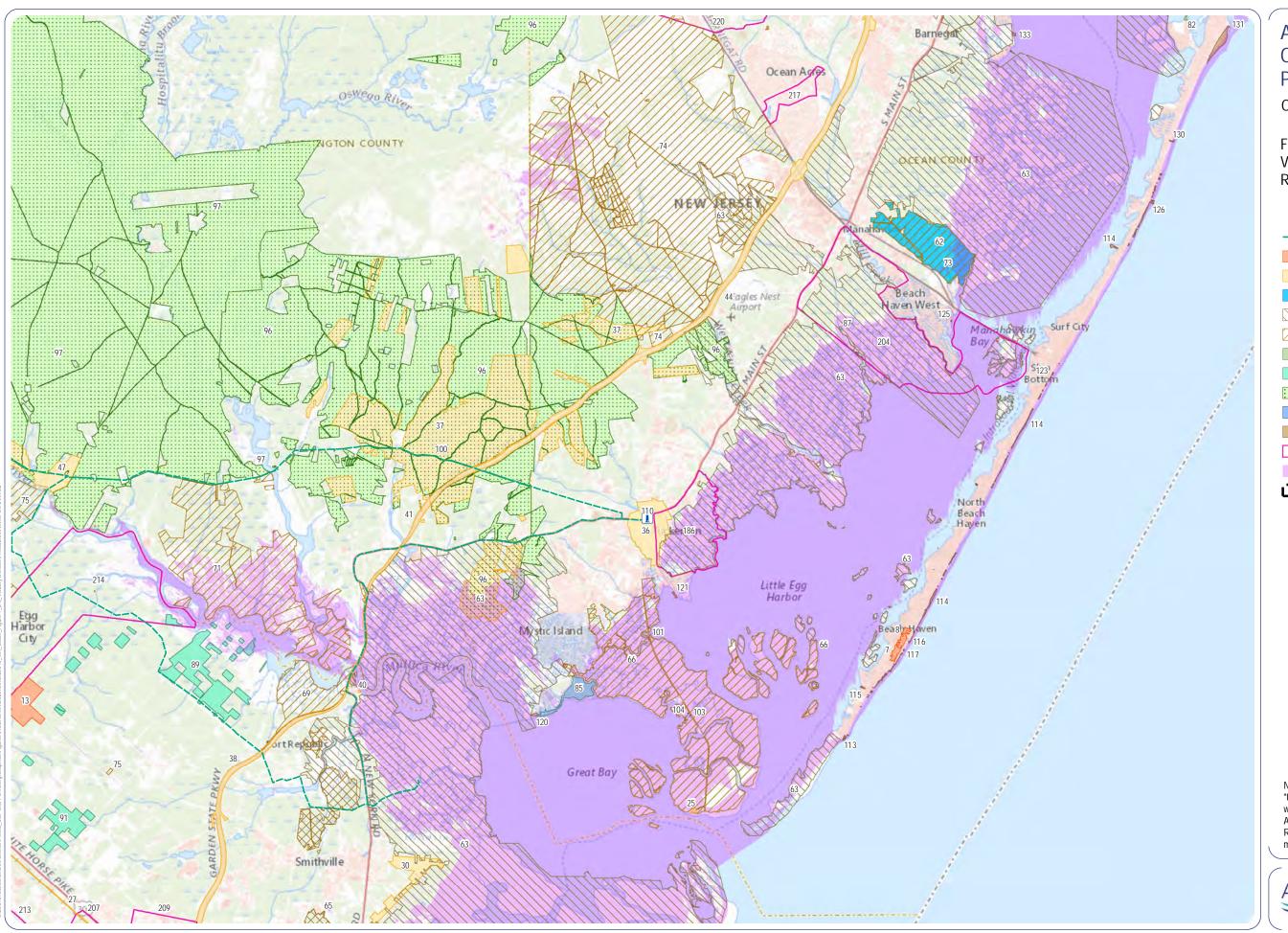
S/NRHP-Listed Resource





Notes: 1. Basemap: ESRI ArcGIS Online "USGS Topo" map service. 2. This map was generated in ArcMap by EDR on April 25, 2022. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.

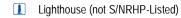




Atlantic Shores Offshore Wind Project

Outer Continental Shelf

Figure 1.2-3: Visually Sensitive Resources



--- State Scenic Byway

S/NRHP-Listed Resource

S/NRHP-Eligible Resource

National Natural Landmark

National Wildlife Refuge

State Wildlife Management Area

State Park

State Nature or Historic Preserve

State Forest

State Fishing and Boating Access

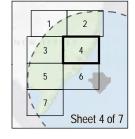
Public Beach

Environmental Justice Area

Zone of Visual Influence

Visual Study Area

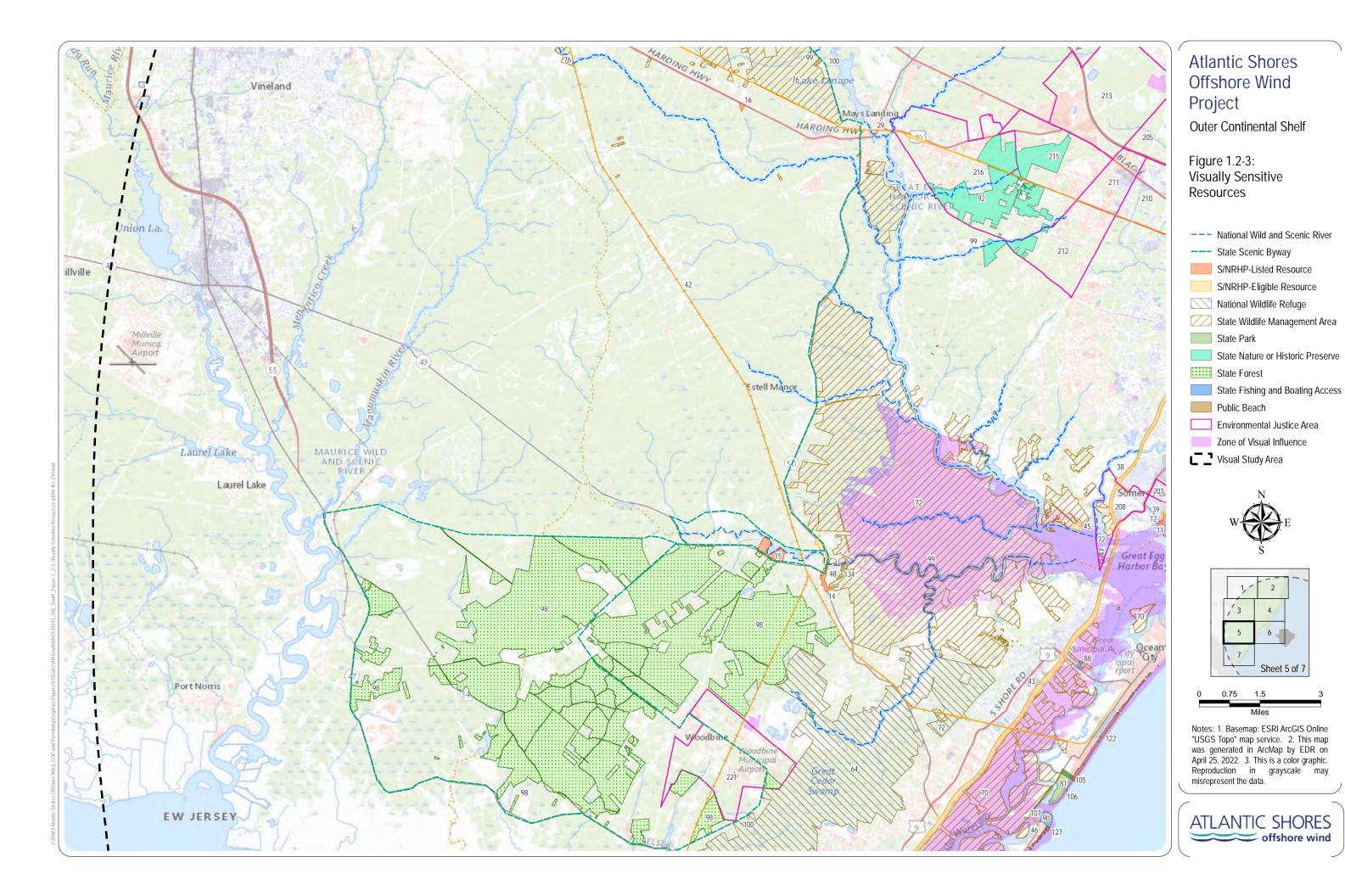


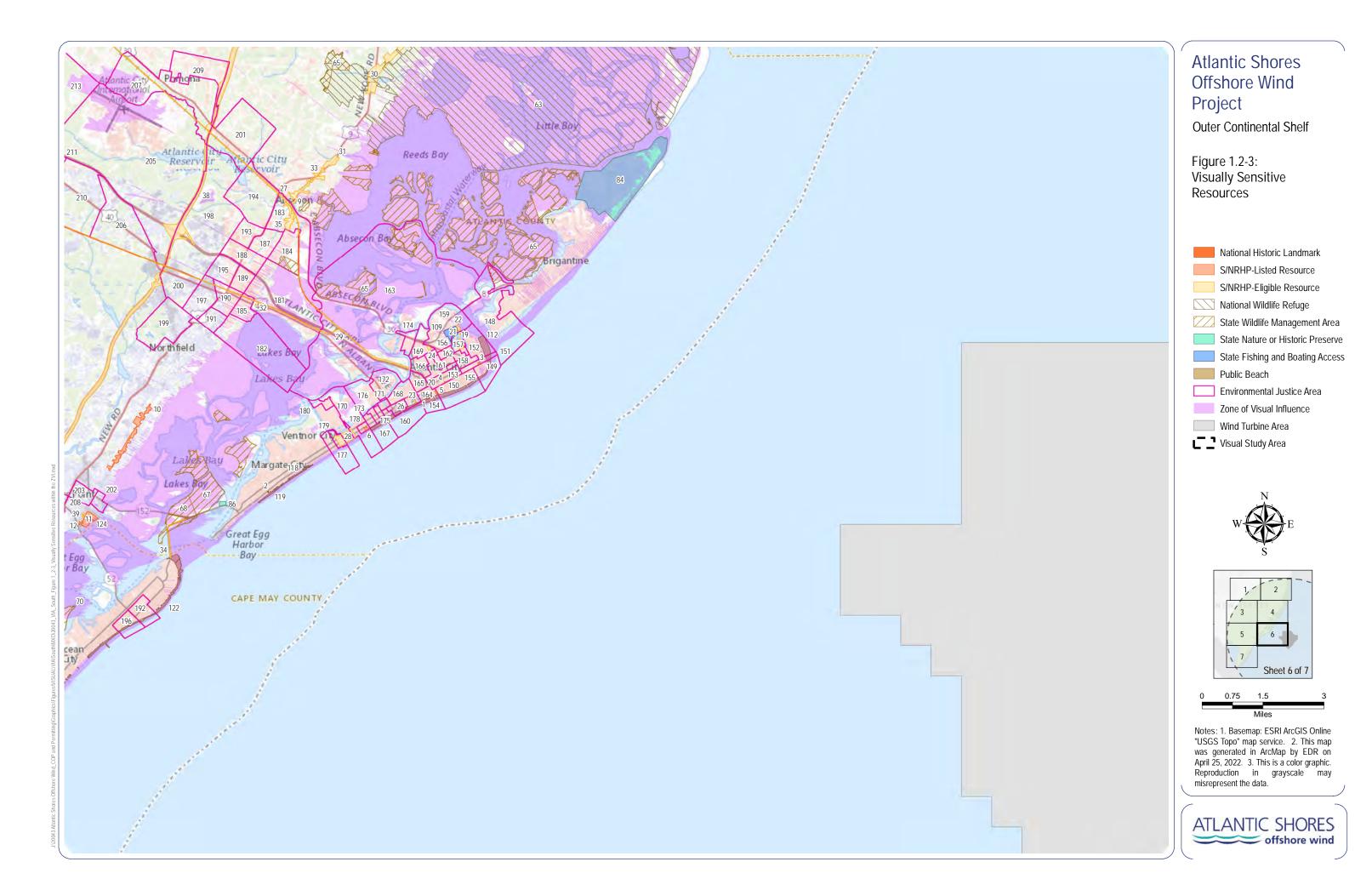


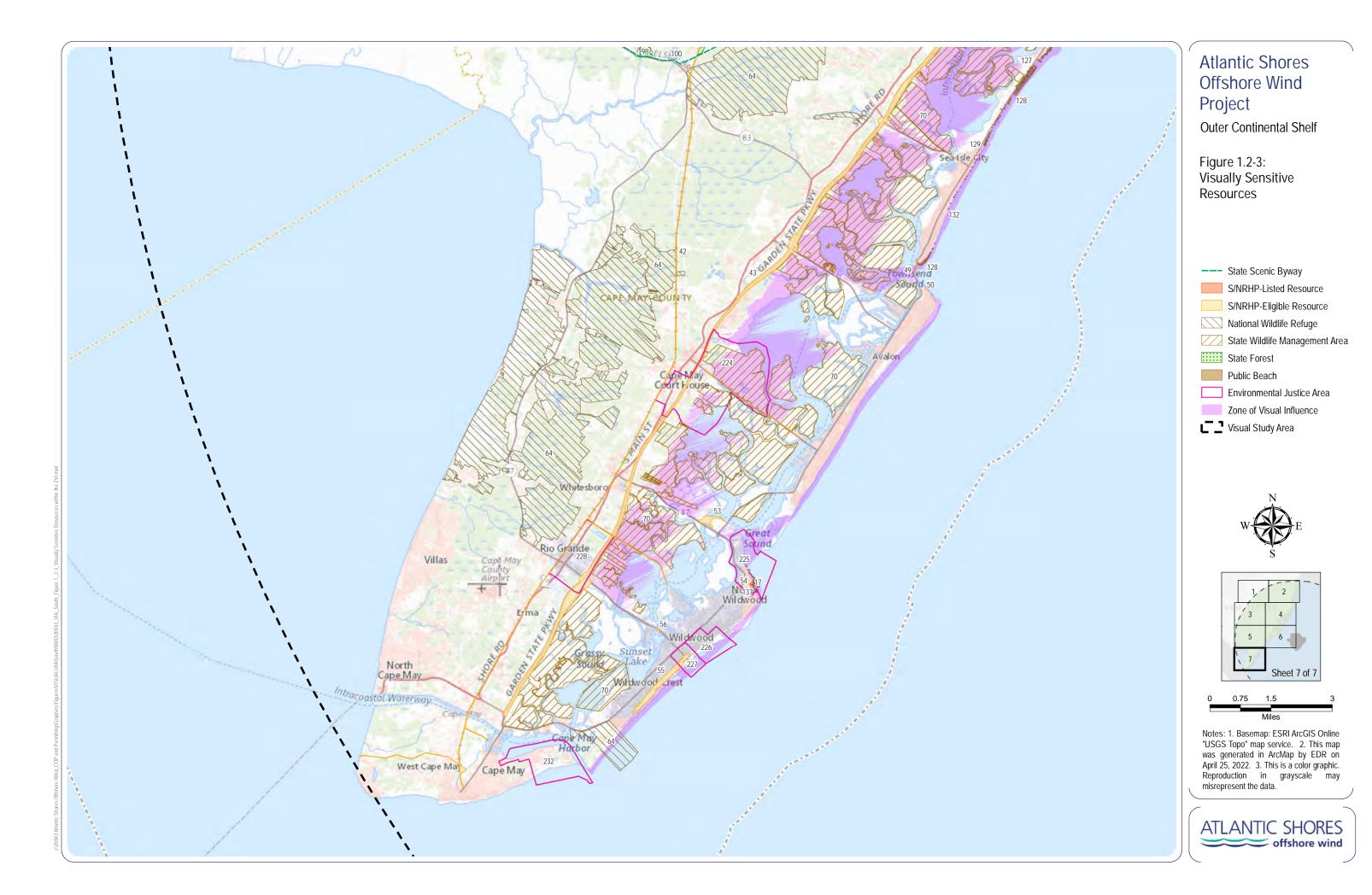


Notes: 1. Basemap: ESRI ArcGIS Online "USGS Topo" map service. 2. This map was generated in ArcMap by EDR on April 25, 2022. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.









2.0 ASSESSMENT METHODOLOGY

At the time this study was prepared BOEM had not yet released its guidelines for visual impact assessment for projects under its jurisdiction (BOEM, 2021). The VIA procedures used for this study draw from methodologies developed by various state and federal agencies, including the BLM (1980), USFS (1974), USDOT Federal Highway Administration (1981), the U.S. Army Corps of Engineers (USACE) (Smardon et al., 1988) and the New York State Department of Environmental Conservation (not dated). Methodologies employed to inventory visual resources, analyze the potential viewshed associated with the Projects (i.e., the ZVI), and prepare visual simulations are also generally consistent with European and Canadian guidance developed specifically for onshore and offshore wind farms (University of New Castle, 2002; Enviros Consulting, 2005; Horner & Maclennan and Envision, 2006, Ministry of Forests, Lands, and Natural Resource Operations, 2016).

EDR developed a document titled *Visual Impact Assessment Procedure Atlantic Shores Offshore Wind, LLC* which outlines the assessment procedure included in this VIA. This document was provided to BOEM, NJDEP, and several other permitting agencies and stakeholders for comment. Beginning in May of 2020, EDR and Atlantic Shores entered discussions with BOEMs visual subject matter expert to ensure the VIA procedure would be acceptable to the lead permitting agencies. This comment period extended to January 2021 and resulted in a mutually agreeable procedure for assessing the potential visual impacts associated with the Projects. The procedure document is included in Attachment A of this VIA.

The specific techniques used to assess potential visibility of the Projects and visual impacts are described in the following section.

2.1 Visibility Assessment Methodology

In order to identify and inventory those locations within the VSA where it may be possible to view the proposed WTGs from ground-level vantage points an assessment of potential visibility of the Projects was completed. This visibility assessment included the following two levels of analysis:

- 1. Viewshed analysis, which is a desktop procedure designed to identify geographic areas of potential visibility of the Projects, and
- 2. Field verification, which included several visual experts visiting the VSA to determine the validity of the viewshed analysis results, document views from within the ZVI, and confirm the character area boundaries and characteristics.

2.2 Viewshed Analysis

A viewshed analysis was conducted to determine the possible extent of visibility of the Projects (ZVI) within the VSA. This analysis relies on lidar data, the development parameters of the Projects, and the physical limits of visibility to determine areas of potential Project visibility. The viewshed analysis developed for this VIA was based upon a highly detailed digital surface model (DSM) of the VSA generated from lidar data⁴, which includes the elevations of land features, buildings, trees, and other objects large enough to be

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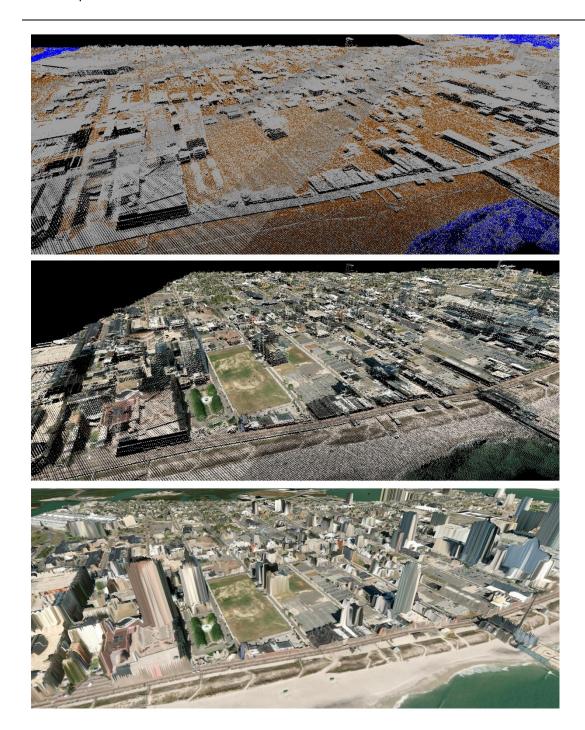
⁴ Lidar data availability varies throughout the VSA, requiring the use of more than one data source. The following four lidar datasets were incorporated into the DSM: NOAA 2014, USGS 2015, Cumberland County 2008, and American Recovery and Reinvestment Act (ARRA) 2010.

resolved by lidar technology (Inset 2.1-1). A bare-earth digital elevation model (DEM), representing topography only, was also created in order to make corrections to the DSM and to the initial viewshed result (see discussion below). The DSM and DEM were both created with a horizontal resolution of 9.8 ft (3 m) to allow direct comparison of ground elevation with the elevation of surface features (such as buildings and vegetation).

Transmission lines and road-side utility lines that are reflected in the lidar data are mis-represented in the initial DSM as solid walls/screening features. In order to correct this inaccuracy, DSM elevation values within transmission line corridors and within 50 ft (15 m) of road centerlines were replaced with DEM bare earth elevation values. To account for some small lidar data gaps, USGS 10-meter resolution DEM and NLCD data were used to complete the DSM lidar model. The DSM was then used as a base layer for the viewshed analysis, which was conducted using ESRI ArcPRO® software.

The analysis of potential visibility of the Projects within the VSA was based on 200 points representing the WTG locations currently under consideration (using latitude and longitude coordinates provided by Atlantic Shores), an assumed maximum blade tip height of 1,047 feet (319 m), and an assumed viewer height of 6 feet (1.83 m). This maximum blade tip height was used to define the maximum area of potential visibility, also referred to as the ZVI. An additional viewshed analysis was completed to assess the potential visibility of the AOWL (FAA lights) on the nacelle at a height of 607 feet (185 m).

Once the initial viewshed analysis was complete, a conditional statement was used within ArcGIS® to set visibility to zero in locations where the DSM elevation exceeded the bare earth (DEM) elevation by 6 feet or more, indicating the presence of vegetation or structures that exceed viewer height. This was done because: 1) without this adjustment in locations where trees or structures are present in the DSM the viewshed would reflect visibility from the treetops or building roofs, which is not the intent of this analysis; and 2) ground-level vantage points within buildings or areas of vegetation exceeding 6 feet in height will generally be screened from views of the Projects. The resulting viewshed analysis provides an exceptionally accurate prediction of visibility of the Projects from onshore resources. However, changes to vegetation (such as growth or clearing) earthwork, and the addition or removal of structures since the lidar data were collected may result in minor visibility discrepancies.



Inset 2.1-1 Raw Lidar Point Cloud (top), Colored Point Cloud (center), Processed DSM (bottom)

2.2.1 Field Verification

Potential visibility of the Projects was evaluated in the field between July and September of 2020. The purpose of this exercise was to verify the existence of direct lines of sight to the water in the direction of the proposed Projects from representative KOPs and other sites with potential visibility of the Projects, as

indicated by viewshed analysis. Field review was also used to obtain photographs from selected KOPs for subsequent use in the development of visual simulations. Fieldwork was completed under a range of sky conditions (overcast to clear), but during the KOP photography visibility was recorded as being 10 miles or greater in all instances.

At each of the KOPs, EDR's field crew selected an appropriate photo location based on the availability of an open view toward the WTA, appropriate composition, lighting, and, if possible, the inclusion of distinctive foreground features that allow recognition of the viewpoint by the public. In some cases, photos were taken from multiple viewpoints at a single KOP to cover a range of compositions and perspectives. At each viewpoint, a series of overlapping photos extending from 180 to 200 degrees of the visible seascape and landscape were obtained in five-degree increments. A tripod-mounted, full frame digital single lens reflex (SLR) camera with a resolution of 30.4 megapixels and a 50-millimeter lens was used for all photos. This focal length is the standard used in VIAs because it most closely approximates normal human perception of spatial relationships and scale in the landscape. Additionally, high-resolution video was taken at each of the simulated KOPs for use in video animations demonstrating the WTGs and environment in motion.

For views lacking background alignment features (i.e., identifiable landscape features with known locations), the field crew utilized global positioning system (GPS) equipment with sub-meter accuracy to document the location of each KOP and foreground reference features (e.g., buildings, fences, flag poles) visible in the photos. Where such features were lacking, temporary stakes or flagging were installed, and their locations documented. Precise locations of these features allow accurate camera alignment during the development of visual simulations. It also assures that the resulting simulations have a high degree of accuracy in terms of WTG location and perceived size relative to other landscape features.

Attachment D includes a list and photolog depicting each KOP visited during field review for the Projects. It should be noted that all KOPs are named utilizing the initials of the legal municipal boundary in which they occur. For example, AC04 represents the fourth KOP collected in the City of Atlantic City.

2.3 Visual Impact Assessment Methodology

With the ZVI established, data collected during the inventory process was then used to determine the visual impact of the proposed WTGs on the seascape, landscapes, and viewers within the ZVI. This assessment involved selecting representative KOPs within the ZVI, creating computer models of the proposed WTGs, and preparing computer-assisted visual simulations of the proposed Projects. These simulations were then used to characterize the type and extent of visual impact resulting from construction and operation of the Projects.

The visual impact associated with the Projects was evaluated using a variation of the VIA procedure outlined in the *USACE Visual Resources Assessment Procedure (VRAP)* (Smardon et al., 1988). However, given the nature of offshore wind projects, which largely occur outside of the location where the Projects are being viewed, the VRAP methodology has been modified by EDR in consultation with BOEM. The VRAP Process and modifications applied within this VIA are described in detail below.

2.3.1 Character Area Scenic Quality Rating

In this study, the scenic quality of the character areas was evaluated using a modified version of USACE Visual Resources Assessment Procedure (VRAP) (Smardon et al., 1988). The VRAP is a two-step process, the first of which establishes an assessment framework by defining areas of similar landscape character

(character areas) within the ZVI and evaluating their scenic quality and sensitivity to visual impact. Referred to as the Management Classification System (MCS) procedure in the VRAP, this first step was revised based on BOEM comments to remove the classification and threshold for impact associated with them. The revised version uses the scoring system and forms based on those provided in the VRAP Manual (Smardon et al., 1988), and the evaluation assigned each character area a specific scenic quality rating based on quantitative scoring of various landscape elements/features.

The aesthetic quality of each of the character areas defined within the ZVI was evaluated by a panel of four visual professionals (see resumes in Appendix F). Each panel member was given access to digital files including the following information:

- Representative photos of each of the defined character areas (see Figure 1.2-2).
- Narrative descriptions of each of the defined character areas (see Section 1.2.3).
- Maps illustrating the ZVI, the location of the Projects, and character areas (see Figure 1.2-2).
- Rating forms (modified Form 4) from the USACE VRAP Manual (see Appendix G).
- Rating panel guidance, including definition of terms (see Appendix G).
- Google Earth Placemarks identifying representative character area locations within the VSA.

In addition, all panel members participated in a meeting (by conference call) to review the information provided to them, receive additional information on the location, extent, and description of the character areas (from team members who had been on-site), and instructions on completing the evaluation forms they had been provided.

Within each character area, the visual quality of six landscape components (landform, water resources, vegetation, land use, user activity, and special considerations) was evaluated by each rating panel member and given a numerical score on a scale of 1-9 (see Appendix G for rating forms used in the VIA). The resulting scores were then converted back to a 1-3 scale to remain consistent with the scoring values established in the VRAP Manual. The complete set of rating panel forms used for the scenic quality rating is provided in Appendix G.

The numerical scores from each evaluator were totaled and averaged to generate a composite rating for each character area. The composite rating placed each character area into one of five classifications as described in Table 2.2-1, below.

Table 2.2-1 Character Area Scenic Quality Classifications

Scenic Quality	
Classification	Description
Preserved	These areas are considered to be unique and to have the most distinct visual quality in the region. They often include significant views of the ocean, and the ocean is a significant contributor to the scenic quality of the view. Human development is minimal or subtle and does not detract from the scenic quality. These views and locations are highly valued and may be protected by federal and state policies and laws (Score of 17 or more).
Retained	These areas are regionally recognized as having distinct visual quality and likely include significant to secondary views of the ocean and seascape which also contribute significantly to scenic quality. Human development may be apparent, and some degree of modified landscape/seascape is expected (Score of 14 to 16).
Partially Retained	These areas are locally valued for above average visual quality. These areas may include views of the ocean and seascape, but human development and landscape modification is apparent and expected (Score of 11 to 13).
Modified	These areas are not noted for their distinct qualities and are often considered to be of average visual quality. Views of the ocean and seascape are partially screened or hampered by development and modification to the landscape (Score of 8 to 10).
Impaired	These areas are noted for their minimal visual quality and are often considered heavily modified by human development. Views of the ocean and seascape are secondary or non-existent (Score of less than 8).

2.3.2 Character Area Scenic Quality Rating Results

The scenic quality of each character area within the ZVI, as determined by the rating panel using the rating procedure, is presented in Table 3.2-1, below. The completed rating forms are included in Appendix D.

Table 3.2-1 Character Area Scenic Quality Assessment Results

		Rating				
Character Area	КС	JG	KV	SB	Average	Scenic Quality
Commercial Strip Development	7.5	8.2	8.2	5.3	7	Impaired
Industrial/Developed	6.7	5.0	6.3	4.8	6	Impaired
Limited Access Highway	10.0	9.0	9.0	8.0	9	Modified
Agriculture	10.5	11.2	102	10.0	10	Modified
Inland Open Water	10.3	11.7	11.7	8.2	10	Modified
Ocean	11.3	14.7	14.0	9.3	12	Partially Retained
Bayfront Residential	13.0	14.0	11.3	11.0	12	Partially Retained
Dredged Lagoon	11.3	13.0	9.7	10.3	11	Partially Retained
Inland Residential	11.8	12.2	10.2	9.7	11	Partially Retained
Town/Village Center	13.2	14.8	10.2	13	13	Partially Retained

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		Rating				
Character Area	KC	JG	KV	SB	Average	Scenic Quality
Atlantic City	10.3	13.0	11.3	11.7	12	Partially Retained
Forest	11.8	11.8	13.2	12.0	12	Partially Retained
Commercial Beachfront	10.3	10.7	10.0	13.3	11	Partially Retained
Recreation	11.0	10.0	11.3	12.5	11	Partially Retained
Undeveloped Beach	12.7	16.7	15.0	13.3	14	Retained
Undeveloped Bay	14.0	16.0	14.3	12.0	14	Retained
Ocean Front Residential	13.3	15.3	12.0	13.7	14	Retained
Salt Marsh	14.7	15.0	14.3	11.7	14	Retained

As summarized in Table 3.2-1 the average score of four rating panel members for Undeveloped Beach, Undeveloped Bay, Salt Marsh, and Residential Beachfront were consistent with a Retained landscape/seascape. Retained landscapes and seascapes are regionally recognized as having distinct visual quality. Human development may be apparent in these areas and some degree of modified landscape/seascape is expected. These areas are assumed to have relatively high susceptibility to visual change due to the intactness of the existing landscape/seascape and lack of discordant elements.

Nine character areas, including Town/Village Center, Open Water/Ocean, Bayfront Residential, Forest, Atlantic City, Recreation, Dredged Lagoon, Commercial Beachfront, and Inland Residential character areas received average scores between 11 and 13, which is consistent with a Partially Retained landscapes. These areas are locally valued for above average visual quality. They may include views of the ocean and seascape, but human development and landscape modification is apparent and expected. These landscapes/seascapes may also be significant contributors to scenic quality when viewed from within other LSZs.

Three character areas, including Agriculture, Inland Open Water, and Limited Access Highway received scenic quality scores of 9 to 10 indicating a modified landscape. These areas typically have minimal visual quality and can tolerate substantial visual change. Views of the ocean and seascape are typically observed from moving vehicles and partially screened or influenced by development and heavy modification to the landscape.

Two character areas, including Commercial/Strip Development and Industrial/Developed received scenic quality scores of 6 and 7, indicating an impaired landscape. These areas typically have minimal visual quality and can tolerate substantial visual change. These areas are often heavily modified by human development and views of the ocean and seascape are secondary or non-existent.

Understanding the existing scenic quality classification of the various character areas found within the ZVI provides context that will help inform the degree of visual change anticipated as a result of the Projects. To characterize the degree of potential impacts to these character areas, the VIA will next select representative KOPs within the character areas and determine the degree of visual change with the operational Projects in place. Although specific KOP photosimulations cannot characterize the impact to an entire character area, they provide a useful framework to establish potential trends in viewing distance, lighting direction (time of

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day), and viewing angles that may influence the character of broad geographic areas within the ZVI. A discussion of these potential impacts to the character areas is discussed in section 3.2.2.

2.3.3 Selection of Key Observation Points

EDR identified specific viewpoints prior to, and during, the field verification process as representative KOPs with the potential for development of visual simulations. In addition, Atlantic Shores, LLC and EDR had discussions with various agencies and stakeholders prior to and throughout field verification. This included the NJDEP, BOEM, and several local stakeholders. The representative KOPs identified through this process, noted as selected KOP or candidate KOP, are listed in Attachment D.

Based on the consultation described above, the photos captured during field verification, and a review of data regarding viewer activity and sensitive public resources, EDR selected a total of 22 unique KOP locations within the ZVI for the development of the visual simulations. The KOPs were selected based upon the following criteria:

- They were identified as KOPs by federal, state, local, or tribal officials/agencies as important visual resources, either in prior studies or through direct consultation.
- They provide clear, unobstructed views toward the WTA (as determined through field verification).
- They illustrate the most open views available from historic sites, designated scenic areas, and other VSRs within the ZVI.
- They are representative of a larger group of candidate KOPs of the same type or in the same geographic area.
- They illustrate typical views from character areas where views of the WTGs are most likely to be available.
- They illustrate typical views of the proposed Projects that will be available to representative viewer/user groups within the ZVI.
- They illustrate typical views from a variety of geographic locations and under different lighting conditions to illustrate the range of visual change that could occur with the Projects in place.

Additional KOP selection criteria are provided in Table 2.2-2. Locations of the selected KOPs are shown in Figure 2.2-1. Information regarding each of these selected KOPs is summarized in Table 2.2-3.

Table 2.2-2 KOP Selection Criteria

КОР	Selection Criteria
SPB01	This KOP was selected due to the presence of a popular beach and boardwalk and proximity to an eligible historic resource (see VSRs). This KOP was also recommended by the Atlantic Shores Community Liaisons and identified during consultation.
LAT01	This nationally recognized resource was selected to provide a unique perspective from a residential area. It also covers the inland ZVI, views multiple character areas, and represents infrequent visibility from representative LCAs.
BT01	This KOP was selected to represent visibility from an undeveloped beach within the ZVI.

КОР	Selection Criteria
BLB02	The Barnegat Lighthouse KOP was recommended by BOEM for inclusion in the VIA. This
DEDOZ	represents an elevated view from a prominent NRHP property.
LBT03	This KOP represents a heavily utilized residential beachfront and aims to address visual
25.03	impacts concerns raised by The LBI Coalition for Wind Without Impact.
SBB01	This KOP was selected to show a representation from the Ship Bottom Borough from within
	the Residential Beachfront Character Area.
DDT04	This state recognized resource was selected to provide a unique perspective from an inland
BRT01	location. It provides an illustration of potential visual impacts from a representative LCA,
	which typically have minimal visibility.
DLIDO1	This KOP was identified through desktop assessment and subsequent field review. This
BHB01	heavily used beach is adjacent to an NRL Historic District and is representative of commercial
BHB02	and high-intensity Residential Beachfront areas.
	This KOP was requested by a citizens group on Long Beach Island
BHB03	This KOP was requested by a citizens group on Long Beach Island
LBT04	This KOP was requested by a citizens group on Long Beach Island
	This state recognized resource was selected to provide a representative view for local
	residents. It was ultimately selected after three separate site visits and discussions with
LEHT02	visitors. This location could be considered a local "secret spot" for fishing and relaxing away
	from the summer crowds. It also provides an illustration of potential visual impacts from a
	representative LCA, which have fewer opportunities for views toward the WTA when
	compared to the coastline.
GT01	This view from Edwin B. Forsythe National Wildlife Refuge was selected to provide an inland
dioi	view from an elevated vantage point. This view was selected to address BOEM comments regarding a scarcity of inland KOPs.
	This KOP represents a State recognized resource that is frequently used by locals and repeat
	visitors who want to escape the crowded beaches to the north and south. It is also one of the
BC02	nearest land-based viewing opportunities of the Projects. The location was desktop
	identified by EDR and verified by the Atlantic Shores Community Liaisons.
	This KOP represents an elevated view from the Casino District. This resource is of high
AC04	importance to Atlantic City. The location was field identified by EDR. The location was
	desktop identified by EDR and verified by the Atlantic Shores Community Liaisons.
	This KOP is representative of a National Historic Landmark in Atlantic City. The location was
AC02	desktop identified by EDR and verified in the field. The location was identified by BOEM in
ACOL	the 2012 Evaluation of Visual Impact on Cultural Resources/Historic Properties: North
	Atlantic, Mid-Atlantic, South Atlantic, and Florida Straits
	This KOP is representative of a National Historic Landmark in Margate City. The location was
MC02	identified by BOEM in the 2012 Evaluation of Visual Impact on Cultural Resources/Historic
	Properties: North Atlantic, Mid-Atlantic, South Atlantic, and Florida Straits
FN4604	This KOP from Tuckahoe Wildlife Management Area was selected to help validate the
EMC01	viewshed analysis results from an inland KOP with partial visibility. This view was also
	selected to address BOEM comments regarding a scarcity of inland KOPs.
OC04	This KOP was selected to provide geographic representation from Ocean City, a popular
	tourism destination. This KOP from Corson's Inlet State Park provides additional geographic coverage of the
OC01	coast within the ZVI. The view also provides a long-distance view similar to OC04, but in
3001	front-lit lighting conditions.
	Total in ingriting conditions.

КОР	Selection Criteria
SIC02	This KOP was field identified. The field team originally identified Sea Isle Beach during desktop assessment and chose to complete photography from the elevated vantage point after observing pedestrian and bicyclists crossing the bridge.
LT02	Cape May Lighthouse was a desktop identified KOP based on EDRs extensive experience in the MidAtlantic Region. This KOP was chosen to potentially illustrate reasonably foreseeable future development and to assist the VIA to help establish visual thresholds for the 20 MW WTG.

2.3.4 Represented Viewer Groups in KOP Selection

The following describes the variability of viewer groups and viewer activities encompassed by the KOPs selected for visual simulations. Appendix E2 lists the individual KOPs and viewer groups represented. Section 3.2.1.3 describes the potential impacts to viewers from the selected KOPs.

Nine of the selected KOPs, including Island Beach State Park (BT01), Seaside Park Borough Boardwalk (SPB01), Beach at Long Beach Island Arts Foundation (LBT03), Beach Haven Historic District (BHB01, BHB02, and BHB03), North Brigantine Natural Area (BC02), Jim Whelan Boardwalk Hall (AC02), Corson's Inlet State Park (OC01), and Ship Bottom Borough Municipal Beach (SBB01) represent residents, tourists, and fishermen. Each of these viewers have ample opportunity for easterly views toward the Projects. Activities include sightseeing, sunbathing, and shore fishing which all involve long-duration, repeated exposure views to the east, over the open ocean. Other activities such as active recreation on the beach result in short-term or even fleeting views over the water. Where applicable, several viewers also engage in boardwalk activities such as walking, dining, and shopping. In these instances, views may be fleeting and occasional where breaks in the dunes offer outward views, but viewers are generally oriented in a north to south direction, parallel to the shoreline.

One KOP from Edwin B. Forsythe NWR at the Woodmansee Estate (LAT01) specifically addresses visibility from a residential neighborhood which has unique viewing circumstances. The Woodmansee Estate does not typically attract tourists or recreation users due to the lack of public amenities for parking. However, the residents of the Woodmansee Estate bordering the Edwin B. Forsythe NWR have opportunities for views over the inland bay and toward the ocean to the south. Views from within this area are typically long duration, stationary, and repeated suggesting an elevated level of viewer sensitivity. This location may also represent numerous boaters that use the inland bay channels to travel to and from the ocean. These viewers are expected to have short duration and often fleeting views while travelling within the designated channels running north to south.

Two KOPs from Bass River State Forest (BRT01) and Tuckahoe Wildlife Management Area (EMC01) will be most frequently used by residents and tourists who come to this location for a variety of activities, including hiking, camping, picnicking, and wildlife viewing (particularly bird watching). However, this KOP is not centered around the hub of accommodated activities which are generally contained to the forested areas north of the KOP. Therefore, this KOP represents a potential view that would be seen by more active recreationalists engaged in bird watching, hiking, or skiing. Views across the backwater bays are limited from within the main state forest and therefore views toward the Projects would be minimal from these locations. This particular KOP is most likely to represent occasional, short duration views oriented in an east-west direction.

An additional KOP taken from Edwin B. Forsythe NWR (GT01) provides an elevated view from a viewing platform situated near a pull-off on Wildlife Drive. This location is most likely used by residents and tourists that are specifically interested in viewing migrating and foraging birds in the marshlands and ponds below. It is also likely that tourists come upon the tower unintentionally and have interest in an elevated view of the area. Bird enthusiasts and ornithologists that visit this location will be engaged in viewing specific activities wherever they occur and likely in all directions. It is also likely they will be viewing the landscape and seascape with the use of visual aids such as binoculars so the viewers may have a heightened awareness of distant elements in the seascape and landscape.

Great Bay Boulevard WMA/Rutgers Field Station (LEHT02) represents typical views experienced by residents, tourists, and fishermen. This location is accessed by an informal parking area and woodland trail that ends at this inland beach. No amenities are provided for users of this space, but visitors (typically local residents) use it frequently for shoreline fishing. The viewers that use this space will generally be focused on views to the southeast and south where the Atlantic City skyline is prominent in the background. Views toward the ocean are generally of long-duration and repeated in nature.

The Ocean Casino Resort Sky Garden (AC04) represents typical elevated views experienced residents and tourists that frequent the numerous resources along the Atlantic City coast. Generally, the sky deck is used as a viewing platform and event space for the Ocean Casino Resort which hosts dining, gambling, and sightseeing activities, but may also represent the type of view expected from numerous hotel balconies along the coastline. Viewers that approach this elevated location are typically viewing due east as well as north and south to observe activity on the boardwalk below. These views can be described as occasional and relatively long duration with concentrated viewing over the ocean.

The views from Barnegat Lighthouse (BLB02), Lucy the Margate Elephant (MC02) and Cape May Lighthouse (LT02) provide representative views from specific tourist destinations and from which there are no similar public vantage points nearby. Although vastly different elevations, these KOPs represent places where people go to see a view and to explore a very specific place. MC02 has a much more focused view to the east, while Cape May Lighthouse (LT02) has an intermittent panorama spanning 360 degrees and including views of the Delmarva peninsula and Delaware bay. Barnegat Lighthouse (BLB02) provides a panorama view of Island Beach, Barnegat Bay, and Long Beach Island. Although, very different views, the user intent and experience are similar. These types of views are generally occasional and of relatively short duration, but the views are experienced by a vast number of tourists throughout the year.

The KOP from Gillian's Wonderland Pier (OCO4) provides a unique vantage point that includes residents and tourists who engage in a wide variety of activities, including passive and active recreation at the amusement park and on the beach, shopping, and dining on the boardwalk. These types of activities are likely to result in occasional fleeting views toward the ocean due to the north and south orientation to the water. Conversely, sunbathers, shoreline fishermen, and sightseers are likely to focus their gaze over the ocean to the east more regularly. Although, the abundant activity on the boardwalk and amusement park are also likely to draw viewer attention frequently during the busiest times of the season.

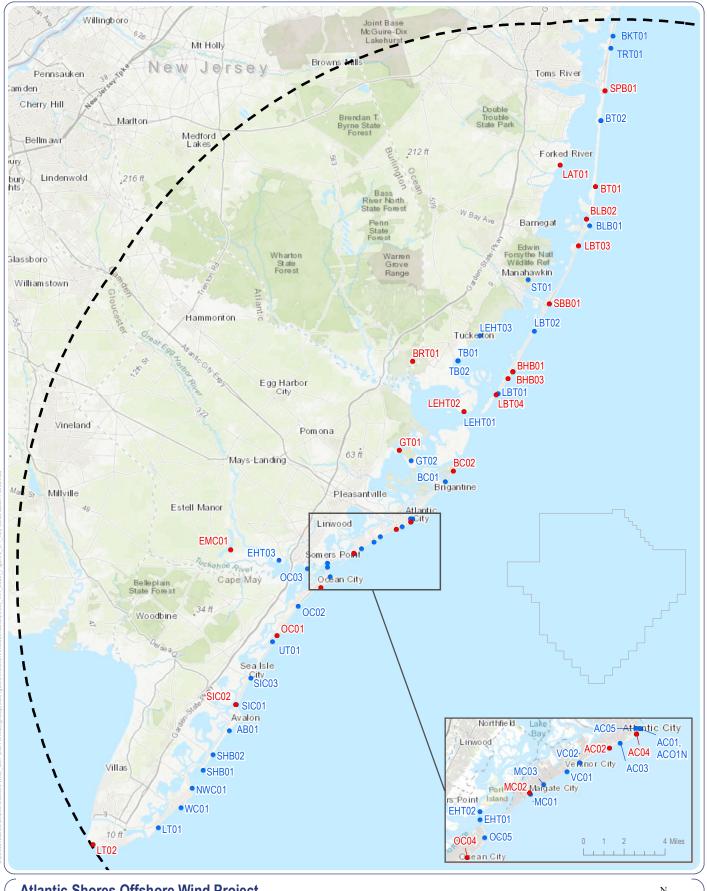
The KOP from Townsend's Inlet Bridge (SIC02) is a representative view that would be typically experienced by people travelling in cars, running, walking, or riding bikes. This bridge provides an elevated vantage point that is typically fleeting and short duration in nature. Given the high volume of traffic that travels this route, it is not particularly inviting for prolonged viewing. However, nearby beaches below the bridge provide opportunities for sunbathing, passive and active recreation, and shoreline fishing.

Table 2.2-3 KOPs Selected for Visual Simulations

КОР	KOP Name	Location	Latitude, Longitude (WGS 84)	Character Area	Distance to The Projects (Miles/km)
SPB01	Seaside Park Borough Boardwalk	Seaside Park Borough, Ocean County, New Jersey	39.93533° N, 74.07164° W	Commercial Beachfront	39/62.8
LAT01	Edwin B. Forsythe NWR at the Woodmansee Estate	Lacey Township, Ocean County, New Jersey	39.83711° N, 74.15082° W	Dredged Lagoon	32.2/51.8
BT01	Island Beach State Park	Berkeley Township, Ocean County, New Jersey	39.80805° N, 74.08997° W	Undeveloped Beach	30.3/48.7
BLB02	Barnegat Lighthouse State Park	Ocean City, Cape May County, New Jersey	39.76434° N, 74.10624° W	Recreation	27.3/44.0
LBT03	Beach at Long Beach Island Arts Foundation	Long Beach Township, Ocean County, New Jersey	39.72895° N, 74.12058° W	Residential Beachfront	24.9/40.1
SBB01	Ship Bottom Borough Municipal Beach	Ship Bottom Borough, Ocean County, New Jersey	39.65156° N, 74.17169° W	Residential Beachfront	19.4/31.1
BRT01	Bass River State Forest	Bass River Township, Burlington County, New Jersey	39.57672° N, 74.40830° W	Salt Marsh	18.5/29.8
внво1	Beach Haven Historic District	Beach Haven Borough, Ocean County, New Jersey	39.56188° N, 74.23540° W	Residential Beachfront	13.5/21.7
внво2	Centre Street, Beach Haven	Beach Haven Borough, Ocean County, New Jersey	39.56169° N, 74.23571° W	Residential Beachfront	13.5/21.7

КОР	KOP Name	Location	Latitude, Longitude (WGS 84)	Character Area	Distance to The Projects (Miles/km)
внвоз	Holyoke Avenue, Beach Haven	Beach Haven Borough, Ocean County, New Jersey	39.55262° N, 74.24422° W	Residential Beachfront	13.0/20.9
LBT04	Edwin B. Forsythe NWR, Holgate	Long Beach Township, Ocean County, New Jersey	39.53091° N, 74.26447° W	Residential Beachfront	11.8/19.1
LEHT02	Great Bay Boulevard WMA/Rutgers Field Station	Little Egg Harbor Township, Ocean County, New Jersey	39.50913° N, 74.32038° W	Salt Marsh	11.9/19.2
GT01	Edwin B. Forsythe NWR, Galloway Township	Galloway Township, Atlantic County, New Jersey		Salt Marsh	14.3/23.1
BC02	North Brigantine Natural Area	Brigantine City, Atlantic County, New Jersey	39.42954° N, 74.33968° W	Undeveloped Beach	9.0/14.5
AC04	Ocean Casino Resort – Sky Garden	Atlantic City, Atlantic County, New Jersey	39.36225° N, 74.41353° W	Atlantic City	10.5/16.9
AC02	Jim Whelan Boardwalk Hall (Atlantic City Convention Center NHL)	Atlantic City, Atlantic County, New Jersey	39.35245° N, 74.43817° W	Commercial Beachfront	11.4/18.3
MC02	Lucy the Margate Elephant NHL	Margate City, Atlantic County, New Jersey	39.32088° N, 74.51170° W	Commercial Strip Development	14.4/23.2
EMC01	Tuckahoe WMA	Estell Manor City, Atlantic County, New Jersey	39.32615° N, 74.72375° W	Salt Marsh	25.7/41.4

КОР	KOP Name	Location	Latitude, Longitude (WGS 84)	Character Area	Distance to The Projects (Miles/km)
OC04	Gillian's Wonderland Amusement	Ocean City, Cape May County, New Jersey	39.27510° N, 74.56878° W	Commercial Beachfront	17.2/27.7
OC01	Corson's Inlet State Park	Ocean City, Cape May County, New Jersey	39.21132° N, 74.64435° W	Undeveloped Beach	21.7/35.0
SIC02	Townsend Inlet Bridge	Sea Isle City, Cape May County, New Jersey	39.11919° N, 74.71579° W	Open Water/Undeveloped Bay	27.4/44.1
LT02	Cape May Point State Park	Lower Township, Cape May County, New Jersey	38.93300° N, 74.96038° W	Recreation	45.0/72.4



Atlantic Shores Offshore Wind Project Outer Continental Shelf

Figure 2.2-1: Key Observation Points

Notes: 1. Basemap: ESRI ArcGIS Online "World Topographic Map" map service.
2. This map was generated in ArcMap by EDR on August 23, 2022. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- Candidate Key Observation Point (KOP)
- KOP Selected for Simulation
- Visual Study Area
 - Wind Turbine Area



2.3.5 Photosimulations

The photosimulations were developed by constructing a 3D computer model of the proposed WTGs, Project layout, and OSSs based on design specifications and coordinates provided by Atlantic Shores. The 3D model included 20 MW WTGs, which is the largest technology under consideration for the Projects. Details regarding the WTG and OSS dimensions and a diagram of the 3D model are included in Section 1.1.

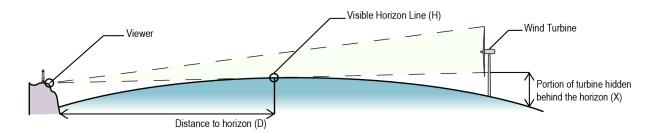
Photographic Alignment Process

To create the visual simulations, the location, bearing, and camera data used to photograph each KOP are entered into a georeferenced 3D workspace to create a virtual camera matching the exact specifications of the field camera. At this point, the GPS survey data collected in the field (Section 2.2.1) are entered into the 3D workspace to establish foreground reference points with known locations. These data were superimposed over photographs as seen through the virtual camera from each of the viewpoints, and minor camera changes (height, roll, bearing) were made as necessary to align all known reference points within the view. In addition, the existing built and natural environment present in the view is constructed in the 3D workspace using aerial photographs, lidar data, and DEM data. This alignment process ensures that Projects are shown in proportion, perspective, and proper relation to the existing landscape elements in the view. Consequently, the alignment, elevation, dimensions, and scale of the modeled components associated with the Projects are accurate and true in their relationship to other landscape elements in each photograph.

Wind Farm Model

The next step involves positioning the WTG layout in each of the aligned views at the appropriate distance in front of, at, or below the horizon (depending on the distance from the viewer). This was done by first determining the distance to the horizon (ocean/sky interface) visible in the photograph. This is accomplished by entering the viewer position and elevation into the Haversine Formula, which uses the radius of the earth (corrected for refraction)⁵ to calculate the mathematical distance to the horizon (D), or the point at which the sky meets the water (see Inset 2.3-1, below). This distance is then used to draw a horizontal line (virtual horizon) in the 3D model representing the mathematical horizon line, which is visible through the virtual camera. The virtual horizon is then precisely aligned to the visible horizon (D) in the photograph by making minor adjustments to the virtual camera target on the vertical axis. With the virtual horizon aligned to the photographed horizon, the positions of the individual WTGs are placed relative to this horizon line. The Haversine Formula was then used to determine each turbine's position, relative to the horizon (X). For example, if the WTG appears in front of the horizon, the returned value is zero and the WTG will be placed at the horizon. If the WTG appears behind the visible horizon, the returned value will be a negative number (-X). This value was then applied to the turbine's vertical position in the model so that it appears below the visible horizon at the -X value.

⁵ Refraction values assume "typical" viewing conditions and do not account for atmospheric anomalies such as the mirage effect which is typically rare and of short duration but may temporarily increase turbine visibility.



Inset 2.3-1 Curvature of the Earth and Refraction Diagram

Daytime Environmental Conditions

After the model was created, the proposed exterior color/finish of the WTGs was added, and the appropriate sun angle was simulated based on the specific date, time, and location at which each photo was taken. This information allows the computer to accurately illustrate highlights, shading, and shadows for each individual component associated with the Projects is shown in the view. All simulations show the WTGs with rotors oriented toward the viewer, to illustrate the largest potentially visible surface area of the Projects. The simulations illustrate the Projects using a standard 50 mm camera lens which presents an approximately 40-degree horizontal field of view and a 27-degree vertical field of view. As mentioned previously, this is the standard focal length used in VIAs, because it most closely approximates normal human perception of spatial relationships and scale in the landscape. As mentioned in Section 2.3.1, the selection of KOPs was partly based on the availability of a clear, unobstructed view of the proposed Projects. However, even under the clearest possible day, atmospheric perspective (diminishment caused by moisture and particulate matter in the atmosphere) will reduce the visibility of the WTGs and OSSs. Therefore, to account for this visibility diminishment, slight hazing was applied to the simulations to account for the atmospheric conditions present in the existing conditions photograph. To accomplish this, a "z-depth" was created for each of the simulations which simulates the diminishment of visibility over distance. This step is an important consideration for the realism of the visual simulations. However, it should also be noted that the conditions presented in the visual simulations illustrate exceptionally clear conditions, and therefore the applied hazing was generally minimal. It is also worth noting that visibility over 10 miles, as illustrated in the simulations, is not the typical viewing condition within the VSA. Further discussion of atmospheric conditions and their effect on visibility is included in Section 2.5.4. See Table 2.3-2 for a breakdown of the KOPs by time of day, lighting conditions, and simulation type.

Nighttime Environmental Conditions

To prepare nighttime simulations, EDR obtained data on the proposed AOWL from the FAA Advisory Circular 70/7460-1M, and the Draft Proposed Guidelines for Providing Information on Lighting and Marking of Structures Supporting Renewable Energy Development (BOEM, 2019) which set guidelines for the lighting of WTGs (FAA, 2020). In addition, EDR documented views of the operational BIWF to determine the appearance of the warning lights at night at distances beyond 20 miles. Computer modeling and camera alignment for the nighttime photos were conducted in the same manner described for the daytime simulations. However, modifications of the nighttime photos (e.g., compositing foreground and background images obtained using different shutter speeds) were required in some cases to create a realistic representation of a nighttime view. These modifications included the reduction of "hotspots" which can be caused by the

cameras inability to accurately expose a light source in a very dark scene. Under very dark conditions, the center of a light source may appear light red to white, depending on the camera distance relative to the light source. However, actual observations of the lights suggest that they appear uniform across the entire source of light. To account for this, a lower exposure photograph was taken to represent the lights at each viewpoint. These lights were then transposed to the properly exposed night scene.

It was assumed that all lights would flash in a synchronized manner, as currently set forth by FAA guidelines. Nighttime simulations therefore show all WTGs with their lights on illustrating maximum illumination. However, Section 3.3 discusses technology being considered by Atlantic Shores to reduce the overall activation time of the AOWL. Due to the effects of the curvature of the earth and refraction, USCG navigation lights on the WTGs were only considered in views that had a direct line of sight to the deck at the WTG base, which is approximately where the USCG lights would be located. The complete set of photographic simulations developed for this VIA is provided in Attachment E. See Table 2.3-2 for a breakdown of the KOPs by time of day, lighting conditions, and simulation type.

Video Simulations

As discussed in Section 2.2.1, during the field review EDR recorded 60 seconds of video to capture the motion and sound present at each KOP. EDR then used this footage to produce animated simulations for five KOPs using the same viewpoint alignment process described above for the still simulations. However, rather than rendering a single frame representing a single point in time, multiple frames were rendered while the 3D turbine blades were in motion. Each individual rendering of the WTGs was placed in sequence to give the impression of blade rotation. Additionally, the aviation obstruction lights were animated to flash at a rate of 30 flashes per minute for the nighttime video simulation. The 3D renderings of the Projects were then superimposed over the baseline video. Changes to environmental variables such as sunrise were accomplished by adjusting the color, hue, and saturation of the video to achieve the desired lighting condition for the corresponding time of day. To simulate the path of the sun in each scene, a digital lighting system that replicated the sun was placed into the scene and animated to follow the azimuth and altitude of the sun throughout the day. Links to the video simulations are provided below in Table 2.3-1.

Table 2.3-1 Video Simulation Links

KOP ID	Location	Distance From Project	Link
внв03	Beach Haven Historic District - Holyoke Avenue	13.0	https://vimeo.com/743541480/3c65aadd6c
BHB01	Beach Haven Historic District	13.5	https://vimeo.com/577181478/a2a5e49788
AC03	Atlantic City - Madison Hotel Nighttime	11.1	https://vimeo.com/manage/videos/577181457/ebaeb785ac
AC03	Atlantic City - Madison Hotel Daytime	11.1	https://vimeo.com/manage/videos/577181385/8c736e9768
SPB01	Seaside Park Borough	39.0	https://vimeo.com/manage/videos/577181305/56eec3ebfb
MC03	Huntington Park Margate City,	13.8	https://vimeo.com/manage/videos/577181130/2986a959db

Panorama Simulations

In order to illustrate the full human field of view, panorama simulations representing a 124 degree by 55 degree field of view were produced from three KOPs. These are included in Attachment E1. The panorama simulations should be printed at full size and viewed according to the instructions on the simulation. See Table 2.3-2 for a breakdown of the KOPs by time of day, lighting conditions, and simulation type.

Table 2.3-2 Photosimulations from KOPs

КОР	KOP Name	Distance to The Projects (Miles/km)	Morning	Noon	Afternoon/ Evening	Night	Lighting	Very Clear	Typical Visibility	Panorama	Video ¹
SPB01	Seaside Park Borough Boardwalk	39/62.8			x		Side	х			х
LAT01	Edwin B. Forsythe NWR at the Woodmansee Estate	32.2/51.8	х			х	Side	Х			
BT01	Island Beach State Park	30.3/48.7	х				Side		x		
BLB02	Barnegat Lighthouse State Park	27.3/44		х			Back		х		
LBT03	Beach at Long Beach Island Arts Foundation	24.9/40.1			х		Back	х			
SBB01	Ship Bottom Borough Municipal Beach	19.4/31.1			х		Side	х			
BRT01	Bass River State Forest	18.5/29.8		Х			Side	х			
BHB01	Beach Haven Historic District	13.5/21.7	х			х	Back	х	х	х	х
внво2	Centre Street, Beach Haven	13.5/21.7	х	х	х		Side/ Back	х			
внв03	Holyoke Avenue, Beach Haven	13/20.9	х	х	х		Side/ Back	х			
LBT04	Edwin B. Forsythe NWR, Holgate	11.8/19.1	х	х	х		Side/ Back	х			
LEHT02	Great Bay Boulevard WMA/Rutgers Field Station	11.9/19.2	х				Back	х			
GT01	Edwin B. Forsythe NWR, Galloway Township	14.3/23.1			х		Front	х			
BC02	North Brigantine Natural Area	9.0/14.5		х			Back	х			

КОР	KOP Name	Distance to The Projects (Miles/km)	Morning	Noon	Afternoon/ Evening	Night	Lighting	Very Clear	Typical Visibility	Panorama	Video ¹
AC04	Ocean Casino Resort – Sky Garden	10.5/16.9	х			х	Back	х		х	
AC02	Jim Whelan Boardwalk Hall (Atlantic City Convention Center NHL)	11.4/18.3		х			Back	x	х		х
MC02	Lucy the Margate Elephant NHL	14.4/23.2			x		Front	х			х
EMC01	Tuckahoe WMA	25.7/41.4			х		Front	х			
OC04	Gillian's Wonderland Amusement	17.2/27.7	х				Back	х	х	х	
OC01	Corson's Inlet State Park	21.7/35			х		Front	Х			
SIC02	Townsend Inlet Bridge	27.4/44.1	х				Back	Х			
LT02	Cape May Point State Park	45.0/72.4	x				Side	х			

^{1.} Video simulation KOP locations may differ slightly from the still simulation photo location.

2.3.6 Visual Impact Assessment Procedure

The visual impacts associated with the Projects were evaluated using a modified version of the VIA procedure outlined in the USACE VRAP (Smardon et. Al., 1988).

This evaluation is based on a comparison of existing photographs and visual simulations from each KOP to quantify the potential visual effects resulting from the Projects using a modified scoring system provided in the VRAP Manual (Smardon et al., 1988). The following section describes this assessment procedure and how it was used to complete the following assessments:

Establish the *baseline scenic quality* of each KOP by quantitatively evaluating the baseline (existing) scenic quality of the existing view.

Using the same procedure, evaluate the KOPs with the Projects in place (proposed view) to determine the VIA score.

Compare the existing and proposed views to describe the overall visual effect of the Projects.

Evaluate *compatibility and contrast* resulting from the Projects by determining the degree of compatibility, scale contrast, and spatial dominance at each KOP.

Determine the visibility threshold level (VTL) from each of the KOPs.

The process used to complete each of these procedures is described in detail, below.

Visual Impact Evaluation

The VIA uses representative KOPs within each of the landward LSZs in the ZVI to determine the Project's potential visual impact. This evaluation is based on a comparison of existing photographs and visual simulations from each KOP to quantify the effect of the Project using forms and a scoring system based on those included in the VRAP Manual (Smardon et al., 1988).

The same panel of four visual professionals that completed the assessment for the LCs also conducted the VIA procedure. Panel members were provided with digital files of the existing conditions photos and simulations of the proposed Projects for each of the selected KOPs, along with supporting information, including the following:

- Rating panel guidance, including definition of terms (see Attachment G).
- Narrative descriptions and maps of each of the defined character areas (see Section 1.2.3).
- Maps illustrating the ZVI and the location of the Projects (see Figure 3.3-1).
- Google Earth Placemarks identifying each KOP within the VSA.
- Existing conditions photos and simulations of the proposed Projects for each of the selected KOPs along with viewing instructions (see Attachment E).
- The distance and direction of the Projects from each of the selected KOPs, and the LCAs/SCAs, viewer groups, viewer activities, and sensitive resources represented by each viewpoint.
- Panoramas illustrating the full field, VSRs, character area, distance to the Projects, and the portions of the Projects visible from each KOP (see Attachment E).
- Rating forms to be used for KOP familiarization, SQC scoring, and Visual Impact Assessment (VIA) scoring (modified versions of the USACE VRAP Forms 4 and 6, Attachment G).

The rating panel members viewed the existing conditions photos and visual simulations on screen from a distance of approximately 20 to 22 inches⁶. Each of the images presented to the panel for rating contained a graphic scale measuring one inch long. The rating panel members were instructed to use a measuring device to ensure this scale bar was accurate thus ensuring the proper scale of the simulation. In addition, due to the distance and scale of the Projects in many of the visual simulations, the panel members were instructed to zoom into the visual simulations to a maximum of 150 percent if necessary to locate and view the Projects. The rating panel members then evaluated the before and after views from each KOP and assigned each view quantitative sensitivity ratings. The ratings were based on a 9-point scale representing the scenic contribution of each of six landscape components (landform, water resources, vegetation, land use, user activity, and special considerations) with and without the Projects in place. This 9-point scale specifically represents the following evaluation criteria:

• **Minimal (1-3):** Something that may be looked upon as a liability in the area; meaning it basically lacks any positive aesthetic attributes and may actually diminish the visual quality of surrounding areas.

⁶ The simulations require a high-definition monitor measuring no less than 24 inches of useable area measured on a diagonal.

- **Average (4-6)**: Something that is common in the area and not known for its uniqueness, but rather is representative of the typical landscape of the area.
- **Distinct (7-9):** Something that is considered unique and is an asset to the area. It is typically recognized as a visual/aesthetic asset and may have many positive attributes. Diversity and variety are characteristics in such a resource.

Although not all are explicitly addressed on the evaluation form, the rating panel was directed to consider the following landscape, viewer, and project-related factors in their evaluation of the scenic quality and the visual impact associated with the Projects:

- Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions, especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or ephemeral landscapes. These factors are included in the VRAP methodology and will be rated quantitatively for the existing and proposed view.
- Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact. Line, form, color, and texture are directly applied to the landscape and seascape composition ratings described above. These factors will be assessed both quantitatively and qualitatively on the rating forms.
- Focal Point: Certain natural or human-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape. Focal points in the existing view and how those may be affected by the Projects will be described on the rating form.
- Order: Natural landscapes/seascapes have an underlying order determined by natural processes.
 Cultural landscapes exhibit order by displaying traditional or logical patterns of land
 use/development. Elements in the landscape that are inconsistent with this natural order may
 detract from scenic quality. When a new project is introduced to the landscape or seascape,
 intactness and order are maintained through the repetition of the forms, lines, colors, and textures
 existing in the surrounding built or natural environment. The Project's effect on order will be
 addressed in the rating panel comments.
- Scenic or Recreational Value: Designation as a scenic or recreational resource is an indication that
 there is broad public consensus on the value of that particular resource. The characteristics of the
 resource that contribute to its scenic or recreational value provide guidance in evaluating a project's
 visual impact on that resource. Formally designated scenic or recreational designations will be

- identified for the panel members. and the panel will be asked to comment on the projects potential effect or scenic or recreational resources.
- Duration of View: Some views are seen as quick glimpses while driving along a roadway or hiking a
 trail, while others are seen for a more prolonged period of time. Longer duration views of a project,
 especially from significant aesthetic resources, have the greatest potential for visual impact.
 Background information for each KOP will contain a description of the user experience in terms of
 regional visibility and the availability of ocean views from each location. The rating panel will be
 asked to comment on the duration and frequency of the view presented for each KOP.
- Atmospheric Conditions: Clouds, precipitation, haze, and other ambient air-related conditions
 which affect the visibility of an object or objects. These conditions can greatly impact the visibility
 and contrast of landscape/seascape and project components and the design elements of form, line,
 color, texture, and scale. Rating panel members will be asked to comment on the conditions
 presented in each view, as well as how visibility of the Projects may be less or greater under
 conditions different from those illustrated in the selected visual simulation.
- Lighting Direction: Backlighting refers to a viewing situation in which sunlight is coming toward the observer from behind a feature or elements in a scene. Front lighting refers to a situation where the light source is coming from behind the observer and falling directly upon the area being viewed. Side lighting refers to a viewing situation in which sunlight is coming from the side of the observer to a feature or elements in a scene. Lighting direction can have a significant effect on the visibility and contrast of landscape/seascape and project elements. Rating panel members will be asked to characterize each view as illustrating one of three possible lighting conditions (front lit, side lit, and backlit) and comment on potential conditions that may increase or decrease visibility of the Projects.
- Project Scale: The apparent size of a proposed project in relation to its surroundings can define the
 compatibility of its scale within the existing landscape/seascape. Perception of project scale is likely
 to vary depending on the distance from which it is seen and other contextual factors. Project scale
 contrast will be assessed through quantitative scores built into the VRAP procedure.
- Spatial Dominance: The degree to which an object or landscape/seascape element occupies space
 in a landscape/seascape and thus dominates seascape composition from a specific viewpoint. The
 spatial dominance presented by the Projects will be assessed through quantitative scores built into
 the VRAP procedure.
- Visual Clutter: Numerous unrelated built elements occurring within a view can create visual clutter, which generally has an adverse effect on scenic quality. If present, visual clutter, both existing and as a result of the proposed Projects will be assessed qualitatively in the rating panel comments.
- Movement: Moving project components can attract viewer attention. Rating panel members will be
 asked to comment on existing elements in the view that may draw viewer attention as well as a
 potential increase in noticeability of the Projects resulting from the rotation of the turbine blades.

Following the panel's evaluation, each panel member's ratings were compiled to determine individual scores for each KOP. The scores were then averaged to determine the overall composite score for each KOP with and without the Project in place. The degree of potential impact is determined through the reduction in the scenic quality (if any) resulting from the Project. A notable reduction in scenic quality is indicated by a score reduction that pushes the KOP into a lower scenic quality definition. The degree to which this reduction is significant is indicated by the delta between the existing and proposed view composite rating. Table 2.2-3 describes the significance of the rating panel delta scores.

Once the scenic quality of the existing view has been established, the same evaluation procedure was applied to the visual simulations of the operational Projects using the same procedure and evaluation criteria described above. Each of the visual impact scores were totaled and averaged across all four rating panel members. This resulted in a VIA score that was directly compared to the existing conditions score to determine the significance of impact. The significance of impact is derived from the delta between the existing view score and VIA score (see Table 2.3-3).

Table 2.3-3 Visual Impact Score Definitions

Score Delta (Proposed minus Existing)	Effect on Scenic Quality	Description of Potential Impact to Scenic Quality
0 to 0.4	Regardless of Scenic Quality Description	Negligible impact to scenic quality. The presence of the SRWF has almost minimal to no impact on landscape, seascape and ocean, and the overall scenic quality is maintained.
0.5 to Minus 1.4	KOP Scenic Quality Description Remains the Same	Negligible impact to scenic quality. The presence of the SRWF minimally impacts the character defining features of the landscape, seascape and ocean, but the overall scenic quality is maintained.
0.5 to Willias 1.4	KOP Scenic Quality Description Changes	Minimal adverse impact to scenic quality. The presence of the SRWF somewhat effects the character defining features of the landscape, seascape and ocean and the overall scenic quality is reduced.
Minus 1.5 to Minus 2.4	KOP Scenic Quality Description Remains the Same	Minimal adverse impact to scenic quality. The presence of the SRWF somewhat effects the character defining features of the landscape, seascape and ocean and the overall scenic quality is reduced.
Winus 1.5 to Winus 2.4	KOP Scenic Quality Description Changes	Somewhat significant adverse impact to scenic quality. The presence of the SRWF competes with one or more landscape, seascape, and ocean attributes and results in an overall reduction in scenic quality.
Minus 2.5 to Minus 3.5	KOP Scenic Quality Description Remains the Same	Somewhat significant adverse impact to scenic quality. The presence of the SRWF competes with one or more landscape, seascape, and ocean attributes, but the overall scenic quality remains unchanged.
	KOP Scenic Quality Description Changes	Significant adverse impact to scenic quality. The SRWF begins to dominate certain landscape, seascape and ocean features and results in a reduction in scenic quality.
Greater than Minus 3.5	Regardless of Scenic Quality Description	Significant adverse impact to scenic quality. The SRWF becomes a dominant feature in the landscape, seascape, and ocean and results in a reduction in scenic quality.

To further define the impact producing factors associated with the Projects, the rating panel also evaluated the Projects' compatibility, scale contrast, and spatial dominance effect on water resources, landform,

vegetation, land use, and user activity for each KOP. The rating scale for this evaluation ranged from 1 to 3, as outlined in Table 2.3-4, below.

Table 2.3-4 Factors Influencing Visual Impact

VIA Factor 1		2	3
Compatibility	Compatible	Somewhat Compatible	Not Compatible
Scale Contrast	Minimal	Moderate	Severe
Spatial Dominance	Subordinate	Co-Dominant	Dominant

The rating panel scores were then averaged to determine the extent to which these factors influence the overall magnitude of visual impact.

Visibility Threshold Level

To supplement and validate VIA rating results, rating panel members were asked to determine the Visibility Threshold Level (VTL) applicable to each of the KOPs and the broader regional landscape they represent. Offshore Wind Turbine Visibility and Visual Impact Threshold Distances (Sullivan et.al., 2013) lists six VTLs used to rate the visual prominence of several operational offshore wind farms in Europe. The VTL scores and descriptions are presented below in Table 2.3-5.

The complete set of rating panel forms is provided in Attachment G.

Table 2.3-5 Visibility Threshold Level Rating Scale

Visibility Rating	Description
Visibility level 1 . Visible only after extended, close viewing; otherwise, invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.
Visibility level 2 . Visible when scanning in the general direction of the study subject; otherwise, likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.
Visibility level 3 . Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/seascape elements.
Visibility level 4 . Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.
Visibility level 5 . Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to strong contrasts in form, line, color, and texture, bright light sources such as lighting and reflections! and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements.
Visibility level 6 . Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by turning one's head more than 45 degrees from a direct view of the object. The object/phenomenon is the major focus of visual attention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, color, and texture, bright light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.

Source: Offshore Wind Turbine Visibility and Visual Impact Threshold Distances (Sullivan et.al., 2013)

3.0 VISUAL IMPACT ASSESSMENT RESULTS

The results of the visual impact assessment are presented below. Section 3.1 presents the visibility assessment results as indicated by the viewshed analysis and field verification, and Section 3.2 summarizes the visual impact assessment results based on the visual simulations and rating panel review.

3.1 Potential Visibility of the Projects

3.1.1 Viewshed Analyses

Potential visibility of the Projects, as indicated by the viewshed analyses, is illustrated in Figure 3.1-1 and summarized in Tables 3.1-1 through 3.1-4. Within the VSA, the lidar-based viewshed analysis indicates that approximately 13.1 percent of the landward VSA could have potential views of some portion of the Projects, based on the availability of an unobstructed line of sight to the tallest components (WTG blade tips in the upright position, see Table 3.1-1) proposed. This suggests that a majority of the VSA (86.9 percent) will not have any potential views of the Projects. This lack of potential visibility occurs in locations where buildings, structures, and vegetation screen views toward the Projects, but from more distant portions of the VSA curvature of the earth and topographic features also contribute significantly to the lack of visibility. Forest land is the dominant land use, covering approximately 55 percent of the landward VSA, and will significantly reduce potential visibility of the Projects throughout the majority of the inland, mainland areas. In areas of concentrated human settlement, such as the barrier islands, and mainland shorelines, closely situated buildings/structures will also significantly screen outward views. Considering the screening provided by buildings, structures, vegetation, and topography, potential landward visibility of the Projects is largely restricted to the ocean shoreline, salt marshes and inland bays west of the barrier islands. Barrier islands that lack shoreline development typically have large areas of contiguous visibility extending across the inland bays and into the marshy, uninhabited areas associated with the mainland river estuaries.

Table 3.1-1 WTG Blade Tip – Land Area Viewshed Results Summary

	45.1-Mile Radius VSA (Units in Square Miles)								
Distance from WTA	Total Land Area	Land Area with Potential Visibility (ZVI)	Percent with Potential Visibility (%)						
0 to 10 Miles	4.6 (11.8 sq. km)	3.8 (9.8 sq. km)	83.1						
10 to 20 Miles	266.9 (691.4 sq. km)	155.2 (401.9 sq. km)	58.1						
20 to 30 Miles	589.3 (1,526.3 sq. km)	85.7 (222.0 sq. km)	14.5						
30 to 40 Miles	845.7 (2,190.3 sq. km)	38.7 (100.1 sq. km)	4.6						
40 to 45.1 Miles	489.9 (1,268.8 sq. km)	5.0 (12.8 sq. km)	1.0						
Total Landward Study Area	2,196.3 (5,688.5 sq. km)	288.2 (746.6 sq. km)	13.1						

Blade Tip Viewshed Analysis Results

Within 10 miles (16 km) of the Projects, the viewshed analysis suggests that 83.1 percent of the landward VSA will have potential visibility of the Projects (See Table 3.1-1). Considering the tallest components of the

Projects, the viewshed analysis indicates that potential visibility of the Projects will be available from the majority of the coastline associated with the coastal barrier island of Brigantine (Figure 3.3-1). This includes contiguous areas of concentrated visibility on the northern tip of the island on North Beach, and portions of North Brigantine. However, heavily vegetated portions of Absecon State WMA and the dune system directly adjacent to the beach will likely be screened from views of the Projects, as indicated by a narrow band extending in a northeasterly direction in the viewshed analysis. South of the Absecon State WMA, within developed portions of Brigantine City the viewshed analysis indicates significant screening resulting from closely situated homes immediately adjacent to the beach. However, potential visibility occurs along roads perpendicular to the shoreline and oriented toward the Projects. These small corridors of visibility occur along the majority of roads in this portion of the VSA and extend between approximately 1,000 ft (305 m) to 3,000 ft (914 m) inland. Generally, these areas are confined to the road rights of way, but occasionally expand outward where open space occurs adjacent to the roads. This condition occurs at the Links at Brigantine Beach Golf Course where discrete corridors of visibility extend from the roads and expand outward across a portion of the fairways.

The backwater bays and salt marshes occurring to the west of the barrier islands and Brigantine Inlet are indicated by the viewshed to have full visibility of the WTG array. This includes portions of Absecon State WMA and the associated uninhabited salt marshes and bays. Detailed results of the viewshed analysis are presented below by distance from the Projects. The viewshed analysis results are illustrated in Figure 3.3-1.

Within 10 to 20 mi (16 to 32 km) of the nearest proposed WTG, viewshed analysis indicates contiguous areas of potential visibility along the immediate barrier island shoreline. Within this zone, 58.1 percent of the landward VSA may have visibility of some portion of the Projects (See Table 3.1-1). However, intense development immediately adjacent to the shoreline largely limits the extent of inland visibility. This condition is particularly apparent in Atlantic City, Ventnor City, Margate City, Long Port, and Ocean City to the west and southwest of the Projects, as well as Beach Haven and Surf City to the Northwest of the Projects. In these locations high density beachfront development, dunes, and vegetation generally restrict visibility to the immediate beach shoreline, and the interior of the barrier islands and back bay shorelines are indicated as being fully screened from view. Notable exceptions occur in the vicinity of undeveloped portions of the barrier islands such as Beach Haven Heights, Island Beach State Park, and Great Egg Harbor Inlet where areas of potential visibility extend across the entire barrier island into the inland bays.

From distances between 20 to 30 miles (32 to 48 km) from the Projects the viewshed analysis indicates that potential visibility will be available from approximately 14.5 percent of the landward VSA (See Table 3.1-1). Again, within this zone, visibility is possible along the immediate barrier beaches in Ocean City, Sea Isle City, and Avalon in the southern portion of the VSA and Surf City, North Beach, Harvey Cedars, and Barnegat Light in the northern portion of the VSA. In these areas intensive beachfront development limits potential visibility of the Projects to the beach, boardwalk, and adjacent dune system. Occasional views occur in open space areas associated with public beach parking lots and parks such as in Southern Ocean City and Barnegat Light, and along roadways oriented toward the Projects and perpendicular to the shoreline which occurs minimally in Ocean City. Similar to other zones, visibility occurs again to the west of the barrier island due to the presence of open water and salt marsh which both lack significant screening features. Significant areas of potential inland bay visibility occur in Sites Sound, Townsend Sound, Ludam Bay, Carson Sound, and Peck Bay in the southern portion of the VSA and Manahawkin Bay in the northern portion of the VSA. Mainland visibility is limited to the immediate inland bay shoreline in most instances. However, exceptions occur in Bass River and Little Egg Harbor Townships where a large area of contiguous visibility is indicated

in a predominantly forested area. Review of online databases and maps suggest that this visibility is the result of low growing forest vegetation associated with the pinelands and actual visibility of the Projects from this area would be very unlikely. The open area associated with the Atlantic City International Airport also includes a large area of ZVI along with the Mullica, Great Egg Harbor, Tuckahoe, and Middle Rivers including the surrounding undeveloped wetlands and marshes. Larger areas of potential inland visibility occur at the Department of Defense Airstrip and munitions depot which has been cleared of vegetation. This facility spans the border between Bass River Township and Little Egg Harbor Township some 10 miles (16 km) inland from the shoreline. Public access to this facility is restricted and therefore, impacts on the general public will not occur in this location. Other small areas of potential visibility occur in locations considerably inland from the shoreline and where public access is restricted. These include the Atlantic City Airport Runway and the top of Manchester Township Landfill.

From distances between 30 to 40 miles (43 to 64 km) potential visibility of the Projects is generally limited to the barrier island shoreline and typically extends as far as the vegetated dunes before diminishing completely within the inland portions of the islands. Within this zone, potential visibility of the Projects was indicated within 4.6 percent of the landward VSA. This visibility primarily occurs along the southern VSA beaches of Stone Harbor, Wildwood, and Diamond Beach and diminishes completely at the jetty north of Cape May Harbor. In the northern portion of the VSA, potential visibility of the Projects occurs along portions of South Seaside Park, Seaside Heights and along undeveloped portions of the beach in the remainder of Berkeley Township. Within the 30 to 40 miles zone large areas of visibility occur beyond the barrier islands in the inland bays and adjacent mainland shoreline. The visibility from inland bay areas is consistent throughout the VSA and include portions of Richardson Sound, Cape May Wetlands, and Great Sound in the Borough of Middle Township in the southern portion of the VSA and Barnegat Bay in the northern portion of the VSA. Mainland visibility within this zone is limited to the immediate inland bay shoreline with the exception of a few very small areas of potential visibility in the vicinity of Coyle Airfield in Woodland Township.

The remainder of the VSA occurring between 40 and 45.1 miles visibility of the WTG blades is theoretically possible from Dover Beaches South and North, and Mantolokin Shores on the barrier islands, portions of Barnegat Bay, Kettle Creek, and Mandalay on the northern inland portion of the VSA. No visibility is indicated in the central inland portion of the VSA within this distance range, but a very small geographic area of visibility occurs on the south coast near the Cape May Inlet. Although not indicated in the viewshed analysis, it is also assumed that Cape May Lighthouse could have theoretical visibility of the WTGs.

Aviation Obstruction Warning Light (FAA) Viewshed Analysis Results

As discussed in Section 2.2, an additional viewshed analysis was completed to assess the potential visibility of the AOWL affixed to the WTG nacelle at a height of 607 feet. The FAA viewshed analysis (Figure 3.1-1) suggests that visibility of the AOWL could be available from approximately 9.4 percent of total land area within the VSA (Table 3.1-2). This reduction in visibility can be attributed to the lower height of the lights (relative to the blade tips) combined with the screening effects of curvature of the earth for more distant areas within the VSA. Generally, the FAA viewshed indicated visibility in a majority of the areas indicated as having blade tip visibility, but the actual footprint of the ZVI in these areas is significantly smaller and typically extend over a smaller portion of the inland bays and the more distant barrier island beachfront. This condition is most apparent in the northern and southern extent of the VSA in which the FAA viewshed visibility ends approximately 3 miles (5 km) short of the blade tip viewshed analysis. In the inland bays and

mainland this same condition is apparent in the vicinity of Cape May where visibility indicated by the FAA viewshed analysis ends 10 miles (16 km) short of the visibility indicated by the blade tip viewshed analysis. Visibility of the AOWLs would not be possible from ground-level views beyond 40 miles.

Table 3.1-2 Aviation Obstruction Light – Land Area Viewshed Results Summary

	45.1-Mile Radius VSA (Units in Square Miles)								
Distance from WTA	Total Land Area	Land Area with Potential Obstruction Light Visibility	Percent with Potential Visibility (%)						
0 to 10 Miles	4.6 (11.8 sq. km)	3.6 (9.3 sq. km)	79.0						
10 to 20 Miles	266.9 (691.4 sq. km)	140.1 (362.9 sq. km)	52.5						
20 to 30 Miles	589.3 (1,526.3 sq. km)	51.0 (132.0 sq. km)	8.6						
30 to 40 Miles	845.7 (2,190.3 sq. km)	11.8 (30.5 sq. km)	1.4						
40 to 45.1 Miles	489.9 (1,268.8 sq. km)	0.0 (0.0 sq. km)	0.0						
Total Landward Study Area	2,196.3 (5,688.5 sq. km)	206.5 (534.8 sq. km)	9.4						

In addition to the land area visibility, visibility of the Projects from the open ocean was also considered separately in the viewshed analysis. The blade tip viewshed analysis revealed that up to 98.3 percent of the water surface in the VSA could have some level of potential visibility of the Projects (Table 3.1-3). Areas indicated as screened by the viewshed analysis include Delaware Bay on the west side of Cape May and the northern portion of the VSA where visibility diminishes due to curvature of the earth.

Table 3.1-3 Blade Tip – Water Area Viewshed Results Summary

	45.1-Mile Radius VSA (Units in Square Miles)								
Distance from WTA	Total Water Area	Water Area with Potential Visibility (ZVI)	Percent with Potential Visibility (%)						
0 to 10 Miles	957.0 (2,478.6 sq. km)	957.0 (2,478.6 sq. km)	100						
10 to 20 Miles	1,164.3 (3,015.5 sq. km)	1,164.3 (3,015.5 sq. km)	100						
20 to 30 Miles	1,468.6 (3,803.7 sq. km)	1,468.6 (3,803.7 sq. km)	100						
30 to 40 Miles	1,840.1 (4,765.9 sq.km)	1,808.4 (4,683.7 sq.km)	98.3						
40 to 45.1 Miles	1,227.0 (3,177.9 sq.km)	1,146.8 (2,970.2 sq.km)	93.5						
Total Water Study Area	6,657.0 (17,241.5 sq. km)	6,545.1 (16,951.6 sq. km)	98.3						

Based on the height of the AOWL, the FAA viewshed analysis reduced visible areas to approximately 68.3 percent of the water surface (Table 3.1-4). This reduction in visibility can be largely attributed to the curvature of the earth, which will screen views of the lights at distances beyond 35 miles when viewed from water level. The FAA lights will not be visible from the water level beyond 40 miles to the limit of the visual study area.

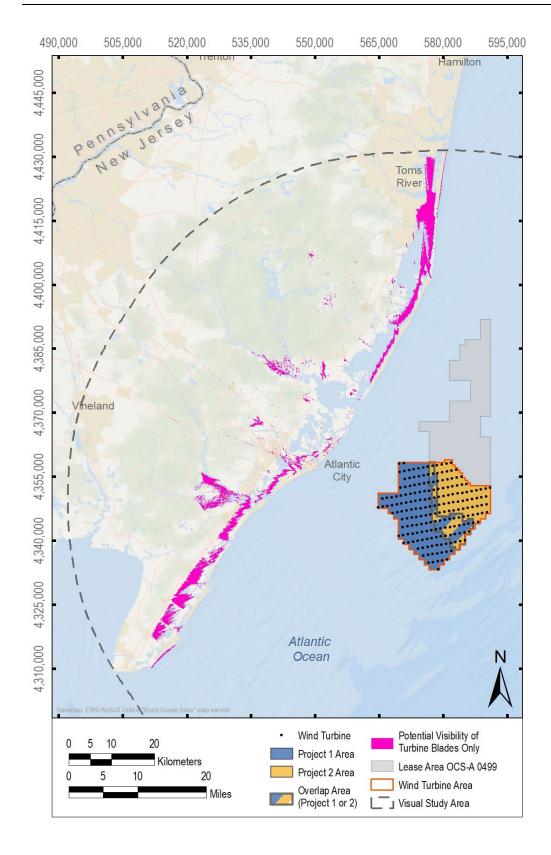
Table 3.1-4 Aviation Obstruction Light – Water Area Viewshed Results Summary

	45.1-Mile Radius VSA (Units in Square Miles)								
Distance from WTA	Total Water Area	Water Area with Potential Obstruction Light Visibility	Percent with Potential Visibility (%)						
0 to 10 Miles	957.0 (2,478.6 sq. km)	957.0 (2,478.6 sq. km)	100						
10 to 20 Miles	1,164.3 (3,015.5 sq. km)	1,164.3 (3,015.5 sq. km)	100						
20 to 30 Miles	1,468.6 (3,803.7 sq. km)	1,468.6 (3,803.7 sq. km)	100						
30 to 40 Miles	1,840.1 (4,765.9 sq.km)	960.0 (2,486.5 sq. km)	52.2						
40 to 45.1 Miles	1,227.0 (3,177.9 sq.km)	0.0 (0.0 sq. km)	0.0						
Total Water Study Area	6,657.0 (17,241.5 sq. km)	4,549.9 (11,784.3 sq. km)	68.3						

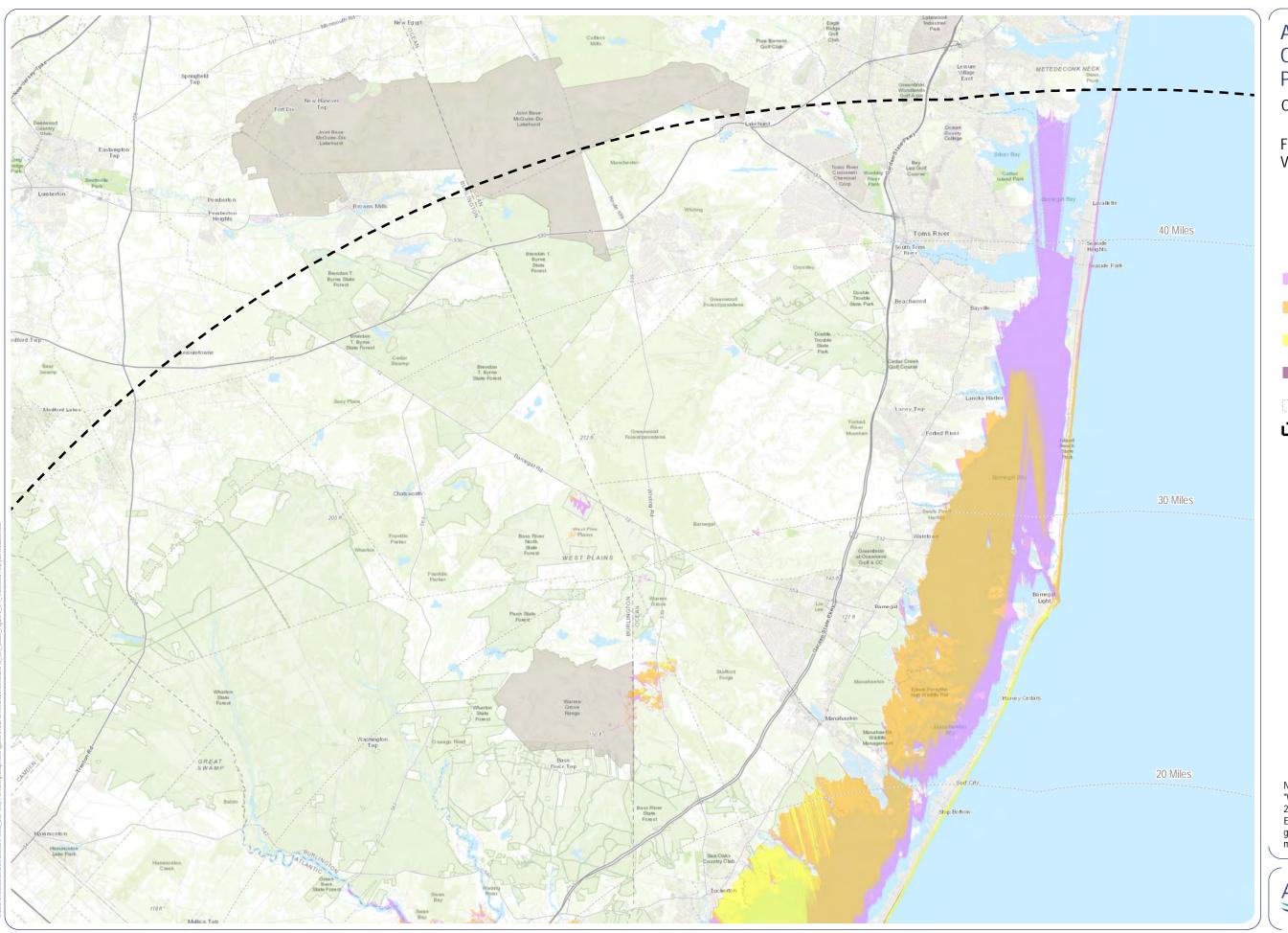
The viewshed analysis treats all buildings/structures and vegetation as if they are completely opaque. Therefore, small woodlots and hedgerows are indicated as fully blocking views of the Projects. It is possible that views will be available from forest edges and through thin/sparse forest vegetation. However, these views will typically be at least partially obstructed by branches (even under leaf-off conditions) and would require focused, concentrated attention to see the WTGs. It is likely that at distances beyond 20 miles, even partial screening will be effective in minimizing or eliminating visibility of the Projects. It is also important to note that the lidar data used in this analysis is from multiple years, with the latest being captured between 2008 and 2014. Therefore, the analysis does not reflect any changes that may have occurred since that time. However, any such changes are likely to be minor and could include the addition of new obstructions (new buildings and taller trees) as well as the removal of obstructions (tree cutting).

As mentioned previously, factors such as the acuity of the observer, the effects of distance, the occurrence of overcast and hazy weather conditions, and the white color and slender profile of the WTGs (especially the blades, which make up the top 453 ft [138 m] of each WTG) are not considered in this analysis. Given the narrow dimensions and limited visibility of the WTG blades, a separate analysis was completed to determine geographic areas of visibility of the blades excluding the nacelle and tower portion of the WTG. The results of the analysis suggest that 3.6 percent of the landward VSA (28.4 percent of the ZVI) would only have potential visibility of the WTG blades (see Inset 3.1-1). At distances beyond 35 miles, even if not fully screened by curvature of the earth, the blades will generally be difficult to see due to atmospheric perspective and can even be obscured by surface waves and large ocean swells. Therefore, it is unlikely that the Projects will be readily noticeable in views that only include the WTG blades (i.e., the tower and nacelle is screened from view by curvature of the earth) which, from ground level vantage points occurs beyond 35 miles under generally clear weather conditions (see Section 3.2.2). With these factors considered, areas and duration of actual visibility will likely be more limited than indicated by the viewshed analyses. The areas where only potential WTG blade visibility is indicated include the majority of inland bays and adjacent mainland shoreline between 10 and 45.1 miles from the Projects, including bays west of Atlantic City, Margate City, Ocean City, Sea Isle City, Avalon Borough, Wildwood, North Haven, Ship Bottom, Surf City, Barnegat Light, and Seaside Heights. Additionally, the majority of inland visibility indicated on the viewshed

analysis will only include turbine blades. This includes the major river basins of the Mullica, Great Egg Harbor, and Tuckahoe Rivers and associated wetlands and marshes (see Inset 3.1-1).



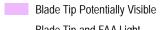
Inset 3.1-1 – Portions of the ZVI that only include WTG blades

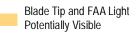


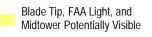
Atlantic Shores Offshore Wind Project

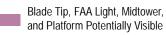
Outer Continental Shelf

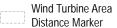
Figure 3.3-1: Viewshed Analysis Results





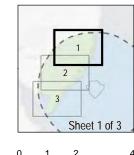






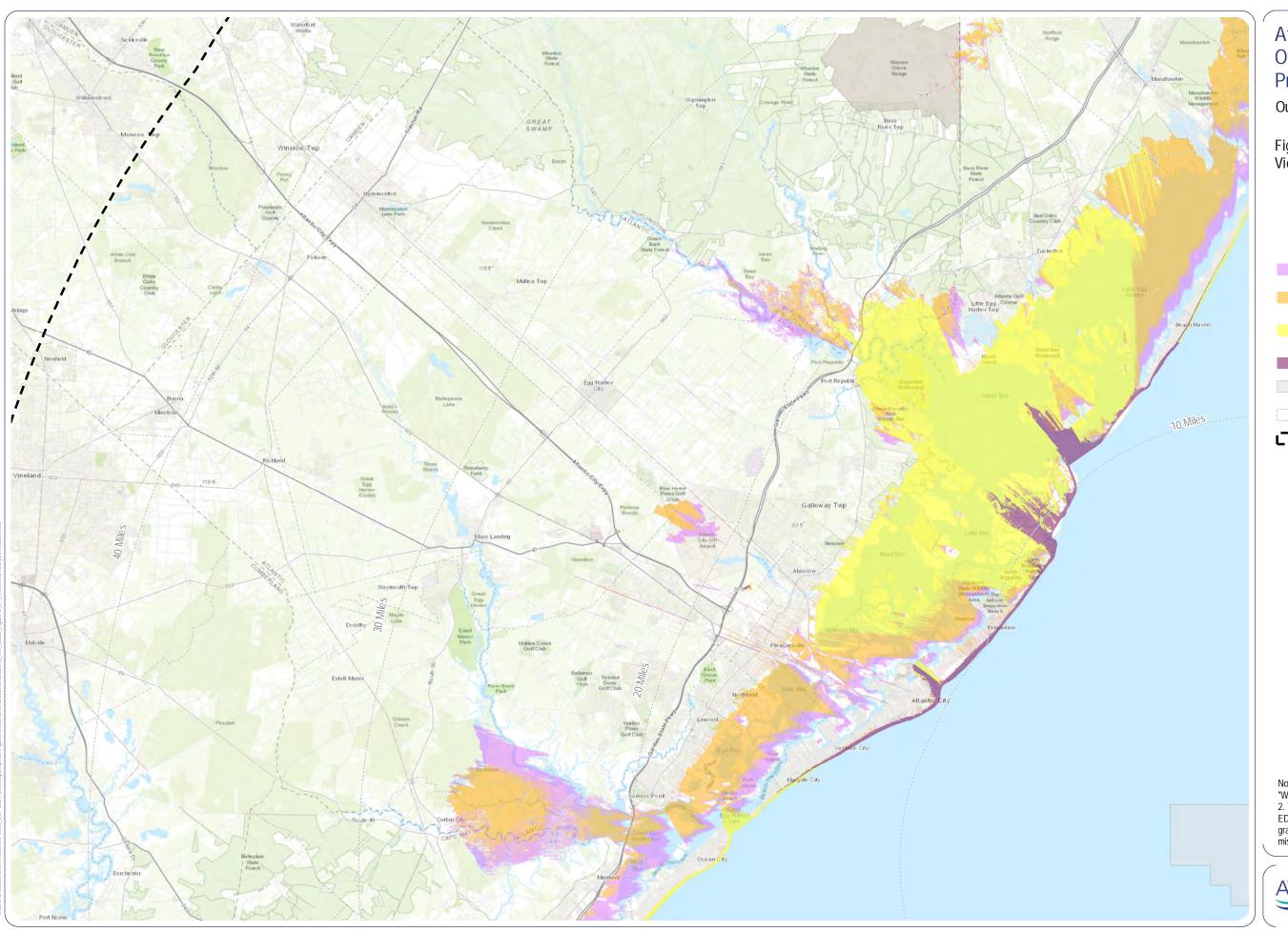






Notes: 1. Basemap: ESRI ArcGIS Online "World Topographic Map" map service. 2. This map was generated in ArcMap by EDR on April 25, 2022. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.





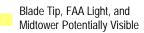
Atlantic Shores Offshore Wind Project

Outer Continental Shelf

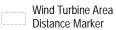
Figure 3.3-1: Viewshed Analysis Results



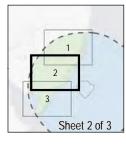








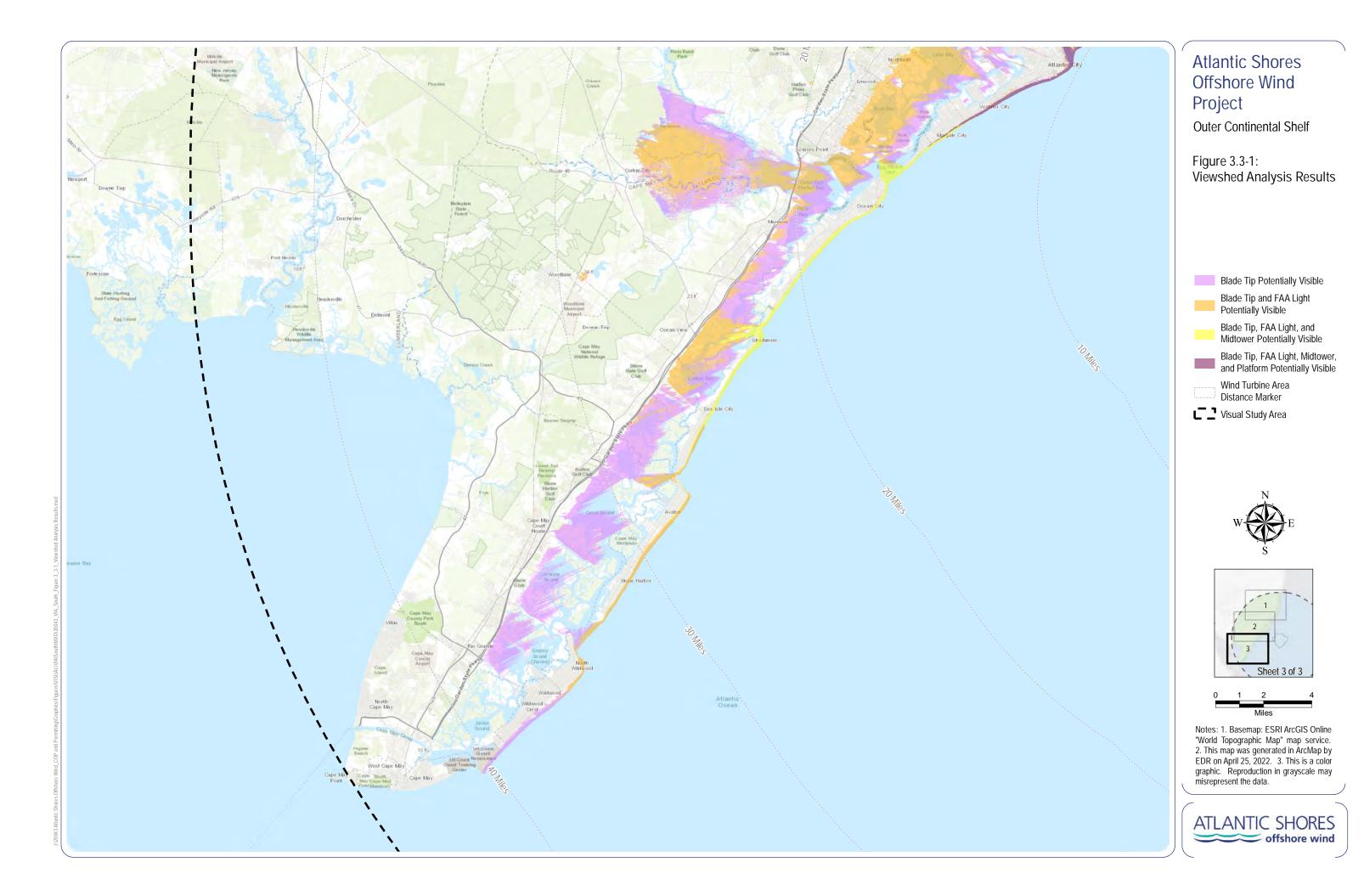






Notes: 1. Basemap: ESRI ArcGIS Online "World Topographic Map" map service. 2. This map was generated in ArcMap by EDR on April 25, 2022. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.





3.1.2 Field Verification

Field verification was conducted at 66 surveyed KOPs within the ZVI. Results of the viewshed analysis were confirmed from majority of these KOP locations. However, a few of the KOP locations were determined to not have any visibility of the Projects based on subsequent survey alignment of the KOP. In addition, it was determined during field verification that elevated structures that are situated on or near the shoreline would offer views of the Projects in some areas that were not included in the ZVI.

Practically, there are a number of factors that will influence the visibility and visual prominence of the WTGs that are not considered in the viewshed analysis. For example, a KOP from the Tuckahoe WMA (See Attachment D, Page 29) occurs within a very narrow band of visibility of the Projects (as suggested by the viewshed analysis). However, field review and 3D alignment (see Section 2.3.2) of the view revealed that minute portions of a few WTG blade tips appeared amongst background vegetation and the Projects would be indistinguishable from these screening features at this location. Similar results were revealed at the Manahawkin WMA (Attachment D, Page 12). This KOP was photographed and surveyed from an inland salt marsh overlooking the inland bay portion of the VSA. In this location the viewshed analysis suggested large areas of contiguous visibility of the Projects. However, subsequent review of the survey data suggested that WTG visibility was limited to very small portions of the turbine blades amongst a background of intensive development associated with Atlantic City, the Garden State Parkway, and other intervening features. At a distance of 21.6 miles (34.8 km) from the Projects, a casual observer would not be capable of distinguishing the WTGs from this location. As discussed in Section 3.1.1, it was assumed that the turbine blade tips would be very difficult to perceive at distances of 10-45.1 miles. This was confirmed during field review and subsequent 3D alignments. Therefore, while the viewshed analysis provides an exceptionally accurate model of theoretical visibility of the Projects, field review determined that this analysis generally overstates visibility of the Projects, particularly from inland locations. This is particularly the case when the Projects are viewed from distant viewing locations that only include potential visibility of the WTG blade tips.

As mentioned in Section 2.2, the viewshed analysis did not consider potential turbine visibility from humanmade elevated positions throughout the VSA. An example would be an observation tower in the Edwin B. Forsythe NWR (Attachment D, Page 85), which offers an elevated view of the barrier islands, ocean, and surrounding landscape. Field review of this KOP, while not contradictory to the viewshed analysis results, suggests that a greater portion of the Projects would be visible as a result of elevated viewer position. The same is true for heavily developed areas within the barrier islands. Particularly in Atlantic City, where several high-rise buildings offer commanding views of the ocean and the Projects. In these instances, it is reasonable to assume that if the viewshed indicates visibility around a tall building, visibility will also occur within or on the building. This condition is illustrated in the KOP from the Ocean Casino Resort (Attachment E, Page 96). While the viewshed analysis suggests the Projects will not be visible from ground level at this location (due to the presence of intervening screening features), field review determined that the Sky Garden on the 11th floor offered an open, elevated view of the Projects. This condition was also observed in Margate City where an elevated view is available from Lucy the Margate Elephant (Attachment D, Page 25). From this location, the viewshed analysis correctly anticipated a lack of ground level views toward the Projects due to screening provided by buildings, infrastructure, and topography associated with the beach dunes. However, from the elevated deck of this NHL, these screening features become less effective, and the ocean came into view.

Despite the anticipated limitations of the viewshed analysis, field verification confirmed that the ZVI provides an accurate and reasonable representation of the areas that could potentially be impacted by the Projects.

Attachment D lists each of the locations visited during field review along with their distance to the Projects.

3.2 Visual Impact Associated with the Projects

3.2.1 Visual Impact Assessment Results

To illustrate anticipated visual changes associated with the proposed Projects, photosimulations from 22 unique KOPs were used to evaluate the Projects appearance within the ZVI. As indicated in Section 2.3.1, these KOPs were selected based on various factors including proximity to identified VSRs, range of geographic location within the ZVI, and stakeholder input. These KOPs were also selected because they provide a clear, unobstructed view toward the Projects from VSRs, and they represent the various character areas, user groups, viewing distances, and lighting conditions that occur within the ZVI. In addition, the selected photos illustrate typical high visibility conditions where the proposed WTGs would not be obscured by atmospheric haze or fog. Consequently, simulations developed from these locations are representative of a conservative worst-case assessment of Project visibility and potential visual impact within the ZVI. As described in Section 2.3.3, review of the visual simulations, along with photos of the existing view, allowed for comparison of the aesthetic character of each view with and without the proposed Project in place. The results of the rating panel evaluation are described below and the rating forms, KOP impact determinations, and simulations are provided in Attachment E.

The simulations are described in detail in Attachment E along with an analysis of the rating panel results. These results are summarized in Table 3.2-1, below. Inset 3.2-2, below illustrates the existing and proposed SQC scores, the visual impact score, VTL, and distance from the Projects for each KOP. A summary of the rating panel results is presented below for daytime and nighttime conditions.

Daytime Visual Impact Results

Rating panel impact scores indicated that the Projects would result in significant visual impacts at 14 of the 22 KOPs under clear viewing conditions. The Project would result in somewhat significant visual impacts at three KOPs, one view would experience minimal visual impacts, and four views would experience negligible visual impacts (see Table 3.2-1 and 3.2-2). The VIA scores ranged from 0.0 to minus 5.4. With the exception of three KOPS, the visual impact scores suggest that as the viewing distance increases, the potential visual impact (as expressed in the VIA score) decreases (see Inset 3.2-1). For example, one of the lowest impact scores of minus 0.1 was from Cape May Point State Park (LT02) which is approximately 45 miles (72 km) from the Projects. The highest score of minus 5.3 was applied to the Centre Street Beach Haven view (BHB01) which represents high contrast conditions from a distance of 13.5 miles. This trend is also expressed in the Visual Threshold Limit (VTL) score. The most distant KOPs received VTL scores between 1 and 2 and the closest KOPs received the highest achievable VTL of 6.

Table 3.2-1 – Daytime Visual Impact Assessment Rating Panel Results

Distance				Ra	ting Pan	el Meml	ber		SQL			
ID	КОР	to the Projects (Miles/km)	View	KAC	KAV	JMG	SMB	Average		Delta	Visual Impact	VTL
		20.450.0	Existing	12.0	11.3	14.0	13.0	12.6	Partially Retained			
SPB01	Seaside Park Beach	39/62.8	Proposed	12.0	11.3	13.7	12.3	12.3	Partially Retained	-0.3	Negligible	1
LAT04	Edwin B. Forsythe	22.2754.0	Existing	13.3	12.3	14.0	14.3	13.5	Retained	1.0	Somewhat	
LAT01	NWR at the Woodmansee Estate	32.2/51.8	Proposed	12.3	11.3	10.3	13.0	11.8	Partially Retained	-1.8	Significant	4
	Island Beach State		Existing	13.0	15.0	14.0	16.0	14.5	Retained			
BT01	Park	30.3/48.7	Proposed	12.7	14.00	9.7	9.7	11.5	Partially Retained	-3.0	Significant	3
BLB02	Barnegat Lighthouse	7/3/4411	Existing	9.3	13.0	15.0	15.0	13.1	Retained	-1.8	Somewhat	2-4
DLBUZ	State Park		Proposed	9.3	11.7	11.0	13.3	11.3	Partially Retained	-1.0	Significant	Z- 4
LBT03	Beach at Long Beach Island Arts		Existing	10.5	9.8	13.0	14.8	12.0	Partially Retained	-4.2	Significant	5
LD1U3	Foundation	24.9/40.1	Proposed	10.2	8.2	7.3	5.8	7.9	Modified			
CDDO4	Ship Bottom	40.4/24.0	Existing	12.7	11.7	13.7	16.3	13.6	Partially Retained		61 16	_
SBB01	Borough Municipal Beach	19.4/31.2	Proposed	12.0	10.0	8.0	7.3	9.3	Modified	-4.3	Significant	5
DDTO1	Bass River State	10 5 /20 0	Existing	11.2	11.2	10.8	10.2	10.8	Partially Retained	0.2	Nicoliodala	2
BRT01	Forest	18.5/29.8	Proposed	11.2	10.8	10.2	10.2	10.6	Partially Retained	-0.3	Negligible	2
BHB01	Beach Haven	13.5/21.7	Existing	11.7	12.3	13.7	13.0	12.7	Partially Retained	-4.5	Significant	5
DI IDO I	Historic District	13.3/21.1	Proposed	10.7	10.0	7.3	4.7	8.2	Modified	-4 .5	Significant	J
BHB02	Centre Steet, Beach Haven 13.5/21.	12 5/21 7	Existing	11.7	11.3	14.5	14.7	13.0	Partially Retained	-5.3	Significant	6
טווטעב		13.3/41.1	Proposed	10.0	10.3	6.5	4.3	7.8	Modified	-3.3	Significant	
BHB03	Holyoke Avenue,	voke Avenue, 13.0/20.9	Existing	10.0	11.0	14.5	14.0	12.4	Partially Retained	-4.8	Significant	5
511503	Beach Haven	13.0/20.3	Proposed	8.7	10.3	6.5	4.7	7.5	Modified	7.0	Significant	,
LBT04		11.8/19.1	Existing	8.8	12.2	13.8	15.0	12.5	Partially Retained	-5.0	Significant	5

		Distance		Ra	ting Pan	el Meml	oer		SQL				
ID	КОР	to the Projects (Miles/km)	View	KAC	KAV	JMG	SMB	Average		Delta	Visual Impact	VTL	
	Edwin B. Forsythe NWR, Holgate		Proposed	7.8	10.2	6.8	5.0	7.5	Modified				
LEHT02	Great Bay Boulevard	11 0 /10 2	Existing	11.7	16.0	13.7	13.0	13.6	Retained	-4.3	Cianificant	c	
LEH 102	WMA/Rutgers Field Station	11.9/19.2	Proposed	10.3	12.0	6.7	8.0	9.3	Modified	-4.5	Significant	6	
GT01	Edwin B. Forsythe,	14.3/23.1	Existing	12.7	14.7	12.3	13.0	13.2	Partially Retained	-1.9	Minimal	4	
GIOI	Galloway Township	14.5/25.1	Proposed	11.0	12.7	11.0	10.3	11.3	Partially Retained	-1.9	IVIIIIIIII		
BC02	North Brigantine	9.0/14.5	Existing	11.2	13.5	13.8	12.5	12.8	Partially Retained	-4.9	Significant	6	
2002	Natural Area	310, 1113	Proposed	9.5	9.5	6.8	5.5	7.8	Modified	5	J.g		
AC04	Ocean Casino Resort	10.5/16.9	Existing	12.0	10.0	12.7	16.0	12.7	Partially Retained	-4.8	Significant	6	
	Sky Deck	,	Proposed	10.0	8.3	6.7	6.7	7.9	Modified				
	Jim Whelan Boardwalk Hall (AC		Existing	9.5	9.2	11.8	13.5	11.0	Partially Retained	-4.6			
AC02	Convention Center NHL)	11.4/18.3	Proposed	9.2	7.8	5.5	3.2	6.4	Impaired		Significant	6	
MC02	Lucy the Margate	1/1///2/	Existing	11.0	11.0	9.3	11.7	10.8	Partially Retained	-2.2	Somewhat	5	
IVICUZ	Elephant NHL		Proposed	9.7	9.3	6.0	9.3	8.6	Modified	-2.2	Significant	5	
			Existing	9.2	11.8	12.8	13.8	11.9	Partially Retained				
EMC01	Tuckahoe WMA	25.7/41.4	Proposed	9.2	11.8	12.8	13.8	11.9	Partially Retained	0	Negligible	1	
OC04	Gillian's Wonderland	17.2/27.7	Existing	12.2	10.2	13.2	14.8	12.6	Partially Retained	-3.6	Significant	5	
0004	Amusement	11.2/21.1	Proposed	11.5	9.5	6.2	8.8	9.0	Modified	3.0	Significant		
OC01	Corson's Inlet State	21.7/35.0	Existing	11.2	12.3	13.2	14.2	12.7	Partially Retained	-3.1	Significant	4	
0001	Park	rk Proposed 1	10.5	11.7	10.5	5.8	9.6	Modified	5.1	org/inicarit			
SIC02	Townsend Inlet 27.4/4 Bridge	27.4/44.1	Existing	11.7	9.3	13.0	10.3	11.1	Partially Retained	-2.5	Significant	5	
		.,	Proposed	11.0	8.7	6.0	8.7	8.6	Modified			_	
LT02	Cape May Point	45.0/72.4	Existing	13.3	14.3	12.7	16.0	14.1	Retained	-0.1	Negligible	2	
	State Park	State Park		Proposed	13.3	14.3	12.3	16.0	14.0	Retained		3 3	

An exception to this trend occurs at the KOP from Lucy the Margate Elephant (MCO2) which is approximately 14 miles (23 km) from the Projects and received a VIA score of minus 2.2, which is lower than scores received at more distant KOPs. This is due to the fact that a portion of the turbine array is screened by existing buildings in the view, and the existing view received a relatively low SQC score (10.8) due to the presence of visual clutter resulting from a buildings, overhead utilities, and other built forms in the view. Additionally, it was noted by the rating panel that the white color of the WTGs did not contrast with these built forms in the foreground of the existing view. The VTL score for this KOP was 5, suggesting that the Projects strongly attract viewer attention. This demonstrates that despite the visual prominence of the WTG's, existing scenic quality strongly influences the potential visual impact level resulting from the Projects.

Another deviation in the distance versus visual impact trend occurs at Bass River State Forest (BRT01) and Tuckahoe WMA (EMC01). From these KOP, the distance to the Projects is approximately 18.5 miles and 25.7 miles, respectively. From BRT01 the impact score is minus 0.3 (indicating negligible impacts) and a VTL of 2 and from EMC01 the impact score was 0.0 with a VTL 1. These scores deviate from KOPs from similar distances such as, Gillian's Wonderland Amusement Park (OC04) which is approximately 17 miles (27 km) from the Projects and received an impact score of minus 3.6 (moderate magnitude of visual change) and a VTL of 5. Additionally, Beach at Long Beach Island Arts Foundation (LBT03) which is 24.9 miles distant and received a visual impact score of 4.2 and a VTL 5. This variation is largely the result of the visual setting associated with inland KOPs. At these mainland KOP, the lower portions of the WTGs are screened by intervening vegetation and structures. As such, the turbine blades and a few nacelles are the only visible components of the Projects in the view. Rating panel members suggested that the WTGs were difficult to see due to the screening features, their narrow blades, and distance from the Projects. The rating panel also noted that although blade movement could draw viewer attention, it would not detract from the foreground and middle ground features in the view. It was also noted that seasonal growth of the salt marsh grasses could result in the Projects being completely obscured.

Fourteen KOPs are expected to result in significant visual impacts under clear, high visibility conditions. These include the following:

Table 3.2-2 – KOPS Anticipated to Experience Significant Impacts During Clear Conditions

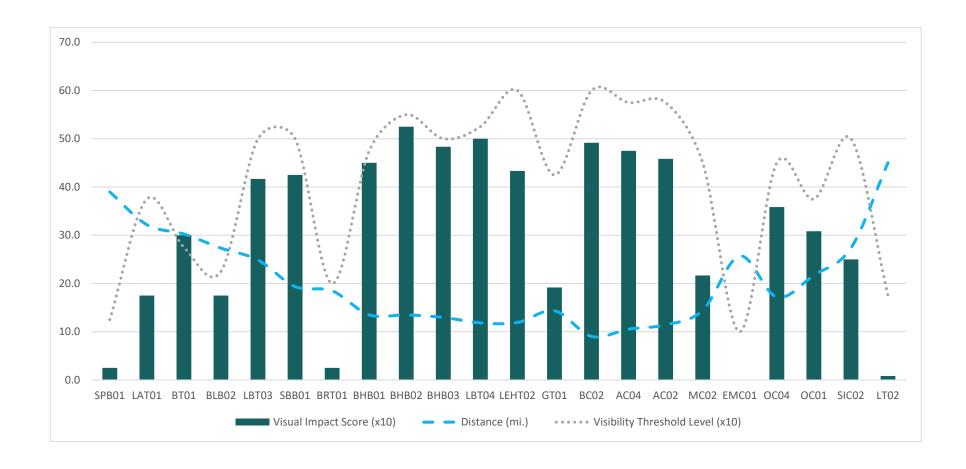
KOP ID	Name	Distance (mi)	Distance (km)
BC02	North Brigantine Natural Area	9.0	14.5
AC04	Ocean Casino Resort – Sky Deck	10.5	17.0
AC02	Jim Whelan Boardwalk Hall NHL	11.4	18.4
LEHT02	Great Bay Boulevard WMA/Rutgers Field Station	11.9	19.2
BHB03	Holyoke Avenue	13.0	20.9
BHB02	Centre Street Beach Haven	13.5	21.7
BHB01	Beach Haven Historic District	13.5	21.7
OC04	Gillian's Wonderland Amusement	17.2	27.7
SBB01	Ship Bottom Borough Municipal Beach	19.4	31.1
OC01	Corson's Inlet State Park	21.7	35.0
LBT03	Beach at Long Beach Island Arts Foundation	24.9	40.0
LBT04	Wildlife Refuge on South Long Beach Boulevard in Holgate	27.3	44.0
SIC02	Townsend Inlet Bridge	27.4	44.0

KOP	Name	Distance	Distance
ID		(mi)	(km)
BT01	Island Beach State Park	30.3	48.7

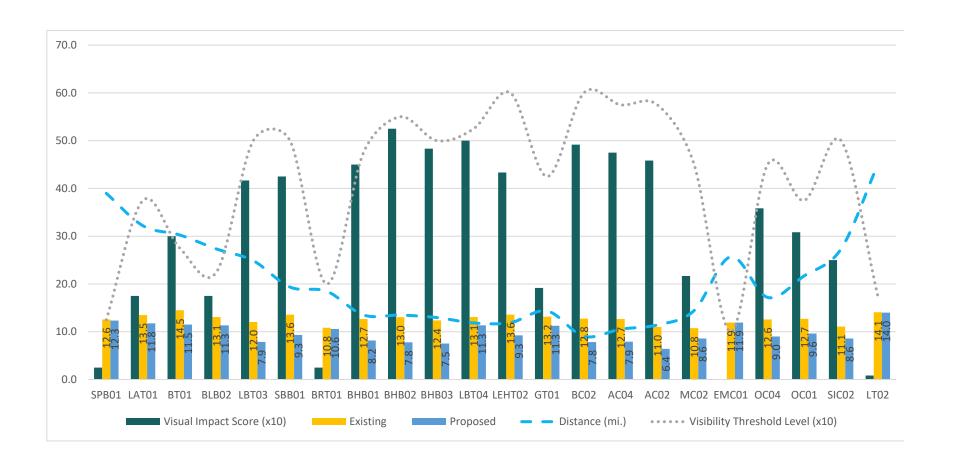
These KOPs are relatively close to the Projects (ranging in distance from 9.0 miles [14.5 km] to 30.3 miles [48.7 km]) and averaged 17.9 miles (28.8 km). These KOPs received visual impact scores ranging from minus 4.2 to minus 5.3. The scenic quality score of these views ranged between partially retained and retained. It is anticipated that the visual impacts presented by the Projects may result in adverse visual impacts to viewers when viewed under clear conditions such as those presented in the visual simulations. This conclusion is generally supported by the VTLs of 3 to 6 assigned to these KOPs. However, it is important to note the potential frequency of the viewing conditions presented in the visual simulations. For example, the KOP from BHB01 was taken during the month of August 2020. A meteorological study of 2019 visibility conditions suggests that this exceptionally clear condition would occur during approximately 5.2% of the month of August. Two variable conditions photosimulations were produced to illustrate more typical viewing conditions in August. The first condition occurred over approximately 19% of the month during which visibility is limited to 18 (29 km) miles. In this photosimulation, the WTGs become very difficult to see. It is anticipated that the visibility under this more representative condition can be characterized by a VTL of 1. The next condition occurred during 15% of the month and represents a maximum visibility distance of 20 (32 km) miles. During this atmospheric condition the simulation illustrates very faint WTGs on the horizon that would likely only be visible if the viewer is scanning the horizon. This visibility condition is characteristic of a VTL of 2. This variability in WTG visibility is expected to occur throughout the entire ZVI, resulting in highly variable impacts depending on atmospheric perspective and lighting conditions. Additional discussion of atmospheric perspective is provided in Section 3.2.3.

The variation in visual impact scores indicates that the degree of visibility of the Projects, lighting conditions, and scenic quality of the existing view can influence the degree of potential visual impact presented by the Projects. Inset 3.2-2, below illustrates the visual impact trend with the KOPs organized from north to south (left to right on the graphic). Generally, this graphic illustrates the trend of increasing scores as the KOPs get closer to the Projects (in the middle of the graph) and then begin to drop again as the KOPs increase in distance to the south of the Projects. As demonstrated in Inset 3.2-2 and described above a few KOPs deviate from the distance/impact trend due to partial screening or particularly high contrast lighting conditions.

A detailed description of each KOP with and without the Projects in place, along with the detailed rating panel results, including spatial dominance and scale contrast factors are presented in Attachment E.



Inset 3.2-1 – Relationship between distance and Visual Impact Rating Score and VTL



Inset 3.2-2 – Summary of Visual Impact Scores and VTL for each KOP.

Nighttime Visual Impact Results

Nighttime visual simulations were produced from a subset of three KOPs used in the production of daytime simulations. The rating panel results are present in Table 3.2-2 below. Each of the nighttime views received a rating score between 11.4 and 11.8 which corresponds with a partially retained landscape. The simulations of the operational Projects received rating panel scores between 7.3 and 7.7, resulting in average decreases between minus 3.8 and minus 4.4, reducing the scenic quality classification to modified or impaired. The rating panel assigned a VTL of 5 for all three KOPs which suggests that the AOWL and navigation lighting could strongly attract viewer attention. Rating panel members commented that light from the AOWL is prominent and will draw viewer attention in a setting that normally appears dark and undeveloped. Further the alternating blinking associated with the navigation lights and AOWL will be distracting to viewers. However, an Aircraft Detection Lighting System (ADLS) would significantly reduce the amount of time the AOWL would be activated by detecting the presence of aircraft. Assuming the use ADLS nighttime visual impacts associated with the aviation obstruction lights would become intermittent and minor (see Section 3.3).

Table 3.2-3 – Nighttime Visual Impact Assessment Rating Panel Results

		Distance		Rating Panel Member			nber					
ID	КОР	to the Projects (Miles/km)	View	KAC	KAV	JMG	SMB	Average	Scenic Quality	Delta	Visual Impact	VTL
AC04	Ocean Casino Resort Sky	10.5/16.9	Existing	10.2	10.3	11.5	15.2	11.8	Partially Retained	-4.4	Significant	5
Night	Deck	10.5/ 10.5	Proposed	9.5	8.0	6.8	5.2	7.4	Impaired	7.7	Significant	3
BHB01	Beach Haven Historic	13.5/21.7	Existing	9.8	12.3	11.8	12.0	11.5	Partially Retained	-4.3	Significant	5
Night	District	13.3/21.7	Proposed	9.5	9.7	5.2	4.7	7.3	Impaired	4.5	Significant	5
LAT01	Edwin B. Forsythe NWR at	32.2/51.8	Existing	10.2	12.7	11.3	11.5	11.4	Partially Retained	-3.8	Significant	5
Night	the Woodmansee Estate	32.2/31.0	Proposed	9.8	9.0	5.3	6.5	7.7	Modified	5.0	Significant	3

Impacts to Viewers

Viewers and the activities they are engaged in can be affected by changes in the visual environment. In this case, the proposed action located within the OCA can ultimately result in a change in viewer experience in other character areas, if the Projects are visible and if views of the ocean are an important component of the viewer activity and experience. This VIA assesses the impacts to viewers by defining the viewer activities, viewer experience, and the importance of ocean views at each KOP. Next, the VTL score from the rating panel (see Section 3.2.2.1) is used to determine the degree of visibility and magnitude of visual change associated with the Projects from each KOP. In most cases, the visual simulations illustrate a single weather condition and a single time of day at each KOP. From all KOPs, the single condition illustrated in the visual simulations represents the worst case in terms of atmospheric clarity and, in many cases, the high contrast lighting conditions. To provide a balanced assessment, the frequency and duration of these conditions is noted for three KOPs, including BHB01, AC02, and OC04. In addition, two alternative conditions simulation are included for each of these three KOPs to illustrate the WTGs under more typical/frequently occurring atmospheric conditions. The alternative conditions simulations for the three KOPs provide an illustration of visibility of the Projects during typical atmospheric conditions. It is reasonable to assume that KOPs which occur within similar or greater distance from the Projects, will have similar or more intensive screening, respectively. As such, KOPs with similar viewing conditions are identified in Attachment E.

Seaside Beach Park (SPB01)

Viewers at Seaside Beach Park are engaged in a multitude of activities that include direct but variable experiential interaction with the ocean. For example, some beachgoers were observed in the ocean wading, swimming, and playing along the surf-line, while sunbathers were facing away from the water to maximize their sun exposure. Other beachgoers situated their chairs specifically toward the water and were enjoying views of the ocean and nearshore activity. To these individuals, the ocean (including its sound, smell and/or feel), is an integral part of their experience, whether it is visible or not. Beyond the shoreline dunes, a bustling outdoor bar and restaurant scene was observed. Patrons of these establishments were engaged in social interaction but were often specifically situated to take advantage of views beyond the sand dunes and out to the ocean and horizon. Throughout the height of the summer season, it is likely that large numbers of tourists, vacationers, and residents take advantage of the beach and nearby shops, restaurants, and bars along Ocean Terrace and the boardwalk. During the off-season the number of potential viewers drops sharply, as the population decreases by up to 2000 percent to just 2,200 full time residents (Mansnerus, 1999). During the winter season, the harsh winter weather dramatically reduces the number visitors at the beach and many businesses close their doors for the season. As such, the viewer exposure is significantly reduced in the winter months.

The rating panel determined that even with concentrated viewing, the proposed WTGs are nearly indiscernible at a distance of 39 miles from this KOP. The rating panel scores indicate a VTL of 1, which suggests that the WTGs are at the extreme limit of visibility and are unlikely to be noticed even with concentrated viewing. It is also worth noting that the west-southwesterly view presented in the visual simulation is not a typical primary view for users of this KOP, who are likely to be focused on views directly offshore. Sunset conditions may increase the potential visibility of turbine blades extending above the horizon. However, even under the highest contrast conditions, the proposed WTGs are not anticipated to detract from the viewer experience and will not be obviously visible to casual viewers from this distance. Therefore, the Projects are unlikely to result in a change to the viewer experience at this KOP.

Edwin B. Forsythe NWR at the Woodmansee Estate (LAT01)

Viewers at Edwin B. Forsythe NWR at this location are exclusively made up of residents and visitors to the Woodmansee Estate neighborhood. The homes within the development are situated along a dredged lagoon to take advantage of inland views across the salt marsh and undeveloped bay bordering the development. The view presented in the VIA would only be available to residents on the southernmost and easternmost boundary of the neighborhood. In most cases, the homes on this stretch of road do not have specific outdoor accommodations for views to the south toward the Projects. However, the selected KOP is one of the few exceptions. Near the selected KOP, a few homes have outdoor seating, pools, and decks specifically situated to take advantage of views over the marsh and bay toward the ocean and the Projects.

Under the lighting conditions illustrated in the visual simulation from this KOP, the WTGs were determined to be a VTL 4, which indicates that the Projects could potentially compete with existing landscape elements in the view but would not strongly attract viewer attention. While it was noted that blade movement could potentially attract viewer attention, perception of such movement is unlikely to occur at a distance of 32 miles. Generally, given the fact that residents have the opportunity for stationary focused viewing when outdoors and relaxing, there will be instances when the Projects are noticeable. The degree of WTG visibility is likely to be highly variable, but given the effects of atmospheric perspective, clear views to a distance of

32 miles will be infrequent (see Section 3.2.3) and therefore the WTGs are generally unlikely to affect viewer appreciation of the view from this KOP.

During nighttime conditions, the rating panel assigned a VTL of 5 to the KOP at the Woodmansee Estate. This suggests that the AWOLs associated with the Projects would result in a significant contrast with the existing landscape elements and the night sky and could attract and hold viewer attention. In this instance, the residents would notice a significant change to the night sky when the AWOLs are active during clear weather conditions. This is likely to affect their perception of an undeveloped ocean view and the quality of their experience when outdoors, stationary, and looking toward the ocean at night. However, as with the daytime visual simulation, there are relatively few viewers at this location and atmospheric perspective is likely to minimize the visibility of the AWOLs under typical nighttime viewing conditions (see Section 3.2.3). Additionally, if an Aircraft Detection Lighting System (ADLS) is implemented, nighttime visual impacts associated with the Projects would be essentially eliminated from this KOP (See Section 3.3).

Island Beach State Park (BT01)

The New Jersey State Park Service states that this 10-mile stretch of barrier island state park hosts a variety of water sports, fishing and hunting, trails, and wildlife viewing. During field verification, people were observed sunbathing and walking along the beach. Shore Road, which runs the length of this state park has over 20 individual pull-offs with parking and beach access. Near the entrance of the park, there are two very large parking areas along with the park office and concession area. It is anticipated that these areas are the main hub of activity and likely draw significant crowds of people in the summertime. However, due to the spread out geographic area this park covers and the layout of the small individual parking areas along the main access road, groups of people tend to be spread out over large distances. One can assume the attraction to this area of the park is likely the ability to enjoy the beach in relative solitude.

The simulation from this KOP is oriented due south. While this is not the primary view for people relaxing and looking out over the water, individuals walking south will may see portions of the WTGs on clear days at a distance of 30.3 miles. The rating panel indicated that the WTGs would result in a VTL of 3, which suggests that the Projects can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/seascape elements. Atmospheric perspective is anticipated to minimize the WTGs contrast during most summer days, but when visible, the Projects could result in a change in the viewer's perception of the ocean as a pristine, undeveloped viewshed, but given the relatively low contrast presented by the turbines and coupled with the fact that this is not a primary view, they are unlikely to impact the value placed on the ocean views. During typical viewing conditions, atmospheric perspective is likely to completely obscure the WTGs at this distance and viewers will be completely unaware of their presence. In fact, the novelty of seeing them on rare occasions might be interesting to some viewers.

Barnegat Lighthouse State Park (BLB02)

Viewers at Barnegat Lighthouse mostly consist of tourists and vacationers who visit this region in droves every summer. Viewers specifically climb this lighthouse to see the seascape and landscape from a rare, elevated perspective. The ocean and views to the ocean horizon are integral to the viewer experience due to the inherent function of lighthouses and the unique view it provides.

Rating panel results indicated a VTL of 2 from this KOP, suggesting that the WTGs are faint, but may be detected by scanning the horizon. At a distance of 27.3 miles, it is likely that during clearer conditions and high contrast lighting, the WTGs could appear more prominent on the horizon, thus increasing their

magnitude of impact. Considering this, the Project could result in a VTL of 4 during very clear conditions. However, it is more likely that this photosimulation represents fairly typical viewing conditions and WTG contrast. The WTGs also occupy a relatively small portion of the view in the location. If the primary view is the ocean, the WTGs will undoubtedly attract viewer attention during clear conditions, but the turbines appear behind a heavily developed portion of the barrier island, so the view would not be considered pristine to begin with. If the primary view is of the barrier islands and developed features within the view, the WTGs may become secondary components in the background and would have minimal impacts on viewers.

Long Beach Island Arts Foundation (LBT03)

The Township of Long Beach is typically known as a family-oriented beach area. Viewers at this KOP are likely to include year-round residents that live nearby, or vacationers that rent properties on the oceanfront or bay side of Long Beach Island. The beaches in this location are known for their lack of large crowds and evoke a more relaxed and solitary beach experience than other locations along the Jersey shore. The neighboring character areas consist mainly of Waterfront Residential and Inland Residential, with minimal commercial retail businesses in the area. People were observed walking along the sparsely populated beach, sunbathing, or socializing in small groups. It is likely that these users accessed the beach from nearby residential properties utilizing dune walks that occur at regular intervals. There are no parking accommodations nearby, making the beach somewhat exclusive to property owners or vacation property renters. For all visitors and residents, the ocean is an important part of the user experience. For some, it offers opportunities for recreation such as surf casting, swimming, and paddleboarding. For others, it is a viewshed that offers a serene and simple view of the open ocean meeting the sky.

The simulation from this KOP is oriented due south. While this is not the primary view for people relaxing and looking out over the water, individuals walking south will see the WTGs on clear days. At a distance of 24.9 miles, the rating panel indicated that the WTGs would result in a VTL of 5, which suggests it could be the major focus of viewer attention during clear viewing conditions. Atmospheric perspective is anticipated to minimize the WTGs contrast during most summer days, but when visible, the Projects could result in a modification of the simple horizon line, resulting in a visual disruption and adding a more complex focal point for some beach users. This could result in a change in the viewer's perception of the ocean as a pristine, undeveloped viewshed and as such, could impact the value they place on this ocean view. Under lower contrast lighting conditions, or if partially obscured by atmospheric perspective, the Projects would result in reduced change to viewer perception. In views looking east, which is the primary field of view that does not include the Projects, the motion of the WTG rotors could attract the viewers' attention, compelling the viewer to look south. However, it is important to note that visibility extending to a distance of 24.9 miles is an exceptionally rare occurrence (see Section 3.2.1.3.5) and does not constitute typical or normal viewing conditions. On a typical humid summer day (when the majority of viewers are present) the turbines are likely to be partially or completely obscured by atmospheric perspective.

Bass River State Forest (BRT01)

Viewers at the Bass River State Forest are likely to be engaged in hiking, picnicking, and wildlife observation. The simulation from this KOP is from a small side trail that extends into the salt marsh before becoming impassible due to wet, boggy conditions. This KOP represents views that would only be experienced by adventurous bird watchers or other nature enthusiasts. The majority of individuals using the state forest would have minimal outward views toward the ocean due to vegetative screening.

The rating panel assigned this view a VTL of 2, which suggests that the WTGs are very faint, but noticeable to viewers scanning the horizon. At 18.5 miles, the WTGs are significantly screened by intervening vegetation and human development on the intervening barrier islands. While viewers at this location are likely to see the turbine blade movement, it will not result in a significant change in the viewer's perception of the landscape due to the obvious presence of human intervention on the horizon. The majority of the WTGs in the simulation are backlit by the sun and appear slightly darker than they would during other times of day. As such, there will be times, such as early and late afternoon, during which the WTGs would be more difficult to see. Additionally, atmospheric perspective is likely to completely obscure the blades during humid days and/or precipitation events.

Beach Haven Historic District (BHB01, BHB02, BHB03, and LBT04)

The beach view illustrated in this visual simulation is experienced by users and viewers that live or vacation along this very popular stretch of beach. The view is slightly elevated due to its position on the dune ramp approaching the beach. This ramp extends from a beach pavilion and comfort station at the top of the dunes to a large parking area. As with many of the popular beaches, user activities range from stationary sunbathing to active recreation such as running, walking, and swimming. Multiple beachfront bars and restaurants also attract visitors throughout the day and into the evening. While the beach and ocean are important experiential components to these activities, ocean views become less prevalent and available while viewers are in shoreline bars and restaurants. Viewers at this KOP are likely to have variable attitudes toward the importance of ocean views, but the ocean is an integral part of their beach experience.

The presence of the WTGs in this view resulted in a VTL of 5 which indicates that they could result in a significant degree of visual contrast with the surrounding seascape/ocean and could be the major focus of viewer attention when visible. For some viewers, engaged in stationary viewing of the ocean horizon, the WTGs may affect the viewer's perception of a pristine, undeveloped ocean horizon and may impact their enjoyment of the ocean views. For others, the WTGs will minimally affect the enjoyment of their activities and may even evoke some degree of visual interest. At a distance of 13.5 miles to the nearest WTG, atmospheric perspective is likely to reduce the visibility and visual contrast experienced by viewers, particularly during the height of the summer season (see Section 3.2.3). However, due to the southern orientation of the view, midday viewing under clear conditions may result in a higher degree of visual contrast due to backlighting of the WTGs. Based on the 2019 meteorological data, the atmospheric conditions represented in this photosimulation (visibility extending to 32 miles) only occurs during approximately 7% of the daylight hours in August. Two additional photosimulations were created to illustrate atmospheric conditions that occur during 15% and 20% of the daylight hours in August to show more typical visibility conditions. During 15% of daylight hours in August visibility extends to a distance of 20 miles and during 20% of daylight hours in August visibility extends to 18 miles. As illustrated in the 15% scenario, only the first few rows of WTGs are faintly visible on the horizon and their prominence is significantly reduced due to a reduction in color contrast and less visible stacking or layering of multiple rows of WTGs. During the 20% scenario, even the nearest WTGs become difficult to see though the atmospheric haze. It is important to note that during these atmospheric condition scenarios, weather conditions on the shore are still perceived as clear and viewers would likely characterize the day as "very clear".

The nighttime view from this location is most likely to be experienced by homeowners and vacationers in rental properties with beach views. The rating panel assigned the nighttime simulation a VTL of 5. This suggests that the AWOLs associated with the Projects would result in a significant contrast with the existing

landscape elements and the night sky and could attract and hold viewer attention. In this instance, the viewers would notice a significant change to the night sky when the AWOLs are active during clear weather conditions. AWOL visibility is likely to be highly variable based on atmospheric conditions. In addition, other light sources associated with homes, businesses, and on very clear nights, Atlantic City will likely compete for viewer attention when viewing in this direction at nighttime. Additionally, if ADLS is implemented (See Section 3.3), nighttime visual impacts associated with the AWOLs would be essentially eliminated from this view and only a very small portion of the navigation lights would be barely visible on clear nights. Due to the relatively low number of navigation lights that occur above the visible horizon from this KOP, it is possible that viewers could mistake the navigation lights for buoys on the water. With ADLS, it is anticipated that the Projects would not result in impacts to viewers at night.

Bay Boulevard WMA/Rutgers Field Station (LEHT02)

Viewers within the Undeveloped Bay and Salt Marsh character area represented by this KOP primarily include residents and other locals that either work at the Rutgers Field Station or fish along a stretch of public beach along the Great Bay ocean estuary. The KOP is also located at a public kayak launch site, so viewers may also engage in recreational kayaking at this location. The site does not have formal parking accommodation and does not appear to be a destination for tourists or visitors to the area. Therefore, the site appears to receive fairly regular, but low volume use. However, this site is also located in proximity to the intracoastal waterway and likely receives significant boater traffic throughout the warm seasons. Of the range of activities occurring at this KOP, the recreational boater and fishermen are likely to have the greatest exposure visual change associated with the Projects. These viewers have opportunities for extended, concentrated viewing of the landscape and seascape and this visual environment is an important component of their recreational experience. Additionally, boaters are typically aware of visual changes since it is an integral part of their navigation on the water. It is important to note that, on clear days, Atlantic City, at a distance of 11.3 miles, is also within the viewshed of this KOP. As such, when Atlantic City is visible, the tall buildings and developed horizon minimize any sense of a pristine ocean viewshed.

The presence of the WTGs in this view resulted in a VTL of 6 which suggest that at a distance of 11.9 miles the WTGs would result in a significant degree of visual contrast with the surrounding seascape/ocean and would be a major focus of viewer attention under the clear conditions illustrated in the simulation. Additionally, VTL 6 suggests that the WTGs occupy a majority of the field of view and viewers would have to turn away from the Projects to eliminate it from their view. During several visits to this site, Atlantic City was used as an indicator of adequate viewing conditions. For example, when Atlantic City is not visible from this location, it is reasonable to conclude that the WTGs will also be obscured by atmospheric perspective. This is supported by the atmospheric conditions analysis photosimulations completed from Beach Haven Historic District which is only 1.6 miles greater in distance from the Projects. Field review also confirmed that these are common and frequent conditions at this location. However, during clear days, as illustrated in the visual simulation, the Projects will likely result in a significant change to the existing view. Some viewers (particularly those engaged in passive activities) may feel the presence of the WTGs impacts their enjoyment of the activities in which they are engaged. Others may perceive the presence of WTGs as an environmental benefit, particularly juxtaposed with the intensive shoreline development associated with Atlantic City.

Edwin B. Forsythe NWR (GT01)

This is an elevated view from a viewing platform situated near a pull-off on Wildlife Drive. This location is most likely used by residents and tourists that are specifically interested in viewing migrating and foraging

birds in the marshlands and ponds below. It is also likely that tourists come upon the tower unintentionally and have interest in an elevated view of the area. Bird enthusiasts and ornithologists that visit this location will be engaged in viewing specific activities wherever they occur and likely in all directions. It is also likely they will be viewing the landscape and seascape with the use of visual aids such as binoculars so the viewers may have a heightened awareness of distant elements in the seascape and landscape.

The clear conditions presented in the photosimulation result in a VTL 4 at a distance of 14.3 miles from the Projects. When viewed over the barrier island development, viewers can better just the scale of the WTGs on the horizon. It is likely that during these clear conditions, the rotating blades of the WTGs will be readily apparent to viewers, but with the presence of heavy development in the view, they will not be viewed without precedent. While the primary view from this location will likely be to the ponds north or south of the tower, the WTGs will catch the attention of birders sweeping the horizon for wildlife. Under more typical viewing conditions, the WTGs are likely to be difficult to decipher beyond the barrier island development. However, as mentioned previously, viewers using visual aids may catch a glimpse of the WTGs nearest shore. The juxtaposition of the WTGs behind the heavily developed barrier island may result in heightened viewer awareness and interest from this location. This is particularly the case for viewers that climb the tower through happenstance. Because the undeveloped ocean is not visible from this location, viewers are unlikely to perceive them as elements on the ocean. In fact, they may question exactly where the turbines are located. Viewers that are sensitive to development in natural settings such as this may feel they diminish the integrity of the view, but it is unlikely to affect their primary activity.

North Brigantine Natural Area (BC02)

This KOP represents a view from the Undeveloped Beach character area, which is a relatively rare occurrence on this stretch of New Jersey coastline. Users at this location are likely to include residents and tourists engaged in beachcombing, running, fishing, and wildlife viewing. Due to the lack of nearby access to parking and comfort stations, the number of visitors at this location is relatively low. However, those with the will to walk, or ability to drive, to this more remote location likely do so to enjoy a quiet, undeveloped beach. For these users the ocean will be an important component of their experience.

The nearest WTG is approximately 9 miles from this location. Due to their proximity to the viewer, the WTGs resulted in a VTL of 6. This reflects their degree of horizon occupation and scale contrast with existing seascape features. While atmospheric perspective may reduce the number of WTGs visible from this location, thus minimizing the perceived visual clutter, viewers will frequently see the nearest rows of turbines. The presence of the WTGs truncates the openness of the view and disrupts the clean ocean/sky horizon line. As such, the WTGs are likely to become the primary focus of viewer attention. While the viewer activities may not be directly affected by the Projects, there will be an experiential change associated with an ocean view that has changed from undeveloped to substantially developed.

Ocean Casino Resort – Sky Garden (AC04)

The Ocean Casino Resort Sky Garden is an outdoor space used exclusively by the patrons of the casino and hotel. During several visits it was apparent that the space is most heavily utilized during special events. Aside from those events, guests occasionally come out to sit at the tables to enjoy a drink and socialize. Even if not actively viewing the ocean horizon, the ocean is still an important aspect of this area due to the sounds and scents of the nearby beach. Viewers also walk to the edge of the glass-fenced garden specifically to take in the elevated ocean view.

At a distance of 10.5 miles, the rating panel scores indicate that the WTGs would result in a VTL of 6, which suggests the WTGs would be the major focus of viewer attention during clear viewing conditions and would be a major source of contrast with the line, form, color, and texture of existing landscape and seascape features in the view. Atmospheric perspective is anticipated to reduce the number of visible WTGs and resulting visual clutter during most summer days (see 3.2.1.3.9), but for users of this space, the Projects would result in a modification of the simple horizon line, resulting in a visual disruption and the addition of more complex focal points. This could result in a change in the viewer's perception of the ocean as a pristine, undeveloped view and could impact the value they place on this view. However, for some viewers in this highly developed setting, the WTGs could be a significant draw and subject of interest. Given the complexity of development along this section of coast, some viewers may not see the baseline condition of the ocean as pristine or undeveloped. For most casino guests, the primary attractions occur indoors where views of the greater Atlantic City environment are not possible, and they may not even venture out to the Sky Garden. Additionally, the visual simulation provides a view that is heavily backlit by the rising sun, representing the highest contrast conditions. Once the sun is higher in the sky, the WTGs are likely to become lighter grey or white in color which would minimize their color contrast with horizon.

At nighttime, the visual simulation from the Ocean Casino Sky Deck received a VTL of 5, suggesting it could become the major focus of viewer attention and contrast with the character of the existing seascape/ocean view. For nighttime viewers, it is important to note the context of the existing nighttime view, which is very bright and heavily modified by lights from surrounding development. As such, it is likely that viewers and users of this space will place less value on the nighttime ocean view as they are unlikely to expect dark skies in this highly developed casino setting. However, a small portion of viewers may place a higher value on the contrast between the dazzling shoreline and the dark ocean horizon. In these cases, the WTG AWOLs would change the viewer's perception of the night sky and could give the sense of a heavily modified ocean view. Additionally, if an Aircraft Detection Lighting System (ADLS) is implemented (See Section 3.3), nighttime visual impacts associated with the AWOLs would be essentially eliminated from this view and only a portion of the navigation lights would be visible on clear nights. Given the proximity of these lights to the ocean surface, it is anticipated that the navigation lights would result in minimal visual prominence but could still attract viewer attention from this elevated view.

Atlantic City Convention Center NHL (AC02)

Viewers along the beach at the Atlantic City Convention Center are engaged in sunbathing, socializing, swimming, wading, and walking. The beach at this location often hosts very large crowds of people engaged in a multitude of activities. For the majority of users, the ocean is an integral part of their experience. Beyond the shoreline, the adjacent boardwalk hosts many activities and presents an overwhelming degree of sensory stimuli, including billboards, large digital screens, music, and a wide array of human activity and

architectural styles. This area of the Atlantic City character area is accepted as a heavily modified seascape and people come to the location to take advantage of its multitude of commercial and social offerings. Throughout the height of the summer season large numbers of tourists, vacationers, and residents take advantage of the beach and nearby shops, restaurants, and bars along the boardwalk. Sixty five percent of visitors who come to Atlantic City come with the express purpose of gambling (27%) or vacationing (38%) and stay for two days or less. Eighty one percent of these visitors frequent the boardwalk near this KOP (Posner, 2013). As such, it is anticipated that this view would be experienced by a large number of visitors during the summer season. In most cases, these viewers accept that this is not a natural or serene landscape and intensive development is a part of the draw and viewer experience. However, for some, the juxtaposition of the largely undeveloped ocean and the highly developed adjacent land uses may contribute to their visual experience.

The WTGs, as viewed at a distance of 11.4 miles from this KOP, dominate the ocean view as indicated by a VTL score of 6. However, the Projects are not completely out of character with the shoreline development, which in this location extends out into the ocean via a large multistory pier, truncating the available ocean horizon and screening a portion of the Projects. At this time of day, during a holiday weekend, the beach would be at its most crowded. Despite this, the presence of the Projects would likely draw viewer attention and may be seen as an extension of the shoreline development by some, and a visual disruption of the horizon by others. The motion of the rotors would likely draw viewer attention despite the intensely developed shoreline. However, the density of WTGs would be significantly reduced during most summer days due to atmospheric perspective. In fact, in 2019 (model year) the availability of views as presented in the visual simulation would only occur over approximately 1.6% of the month of July. Two other conditions are also presented in Attachment E. These simulations illustrate the appearance of the WTGs when visibility is limited to within a distance of 18 and 20 miles. These conditions occurred during 13% and 12% of the month of July, respectively. While the nearest WTGs are still visible on the horizon, under these conditions, the visual clutter associated with stacking and massing is absent, making the Projects appear significantly less dominant.

Lucy the Margate Elephant National Historic Landmark (MC02)

Viewers at this attraction will primarily include tourists and visitors to Atlantic City and Margate City. This famous attraction brings up to 35,000 visitors per year for guided tours, and over 100,000 visit the site annually. The focus of these tours is mainly centered on the interior design elements within the elephant, but the tour typically ends on the howdah, or the uppermost viewing platform. The view from this platform provides an elevated vantage point that allows the viewer to see a relatively narrow enclosed view of the ocean. A view to the ocean is not available from ground level due to closely situated buildings along the street. Viewers tend to take in a brief view, take a photograph, and tour guides typically offer to take group photographs with the ocean as the backdrop. The duration of the view is relatively short, but the frequency may be considered high based on the number of visitors. Generally, visitors to this attraction are focused on the fact that they are inside this massive architectural depiction of an elephant and less concerned about the narrow ocean view.

Rating panel results indicate that the WTGs would result in a VTL of 5 from this location suggesting that they would be a significant draw of viewer attention and would contrast with line, form, color, and texture of features present in the existing view. Given the nature of viewer activity and the composition of the existing view, it is unlikely that the WTGs would result in any diminishment of enjoyment of this resource. However, on clear days there would likely be a change in the perception of an undeveloped ocean horizon.

This is somewhat accentuated by the narrow field of view, flanked on both sides by tall buildings. As mentioned previously, the majority of activities occur inside the elephant where views of the ocean are restricted to small windows representing the eyes of the elephant. However, as illustrated in the video simulation from Huntington Park Margate City (MC03), viewers have the opportunity to experience views with less visual clutter and development. From these locations, the Projects are expected to have a greater impact on users, similar to those described in BHB01.

Tuckahoe WMA (EMC01)

Tuckahoe WMA represent tourists and residents that come to this location while on holiday in the region or as a regular walking and wildlife viewing spot. This view represents those vast, undeveloped inland areas specifically designated as wildlife conservation and recreation land. The primary views are typically highly variable and probably change based on the presence of wildlife or the availability of views of the highly developed barrier island. At a distance of 25.7 miles and due to the fact that the WTGs are partially obscured by vegetation and development, the rating panel members assigned this view a VTL 1 which suggests that the Projects are at the extreme limit of visibility. Viewers, if they notice the WTGs from this location will not likely be affected by the Projects due to the high degree of screening and viewing distance. Atmospheric perspective is also likely to result in even less visibility, resulting in complete obscurity during the majority of summer days.

Gillian's Wonderland Pier (OC04)

Viewers at Gillian's Wonderland Pier will include tourists and vacationers, as well as residents. Typical of a commercial waterfront, this area has a beach separated by recently restored sand dunes, a boardwalk, and commercial storefronts, restaurants, and amusement parks. As such, users will be engaged in a wide variety of activities. Some of these activities such as sunbathing, swimming, and fishing have distinct connections to the ocean which enhances or is essential to the viewer's experience. Activities that take place on the boardwalk and nearby amusement parks are less dependent on the presence of the ocean, but it is still a significant draw to this area. Users will be engaged in focused activities such as shopping, eating, or riding roller coasters which are the strong focus of their attention and leaves little opportunity for viewing the ocean. It is likely that sound and smell from the ocean contribute to their experience while engaged in these activities but is not central to user enjoyment. The users at Gillian's Wonderland recognize that this environment is a heavily manipulated seascape and accept that it could not be mistaken for a pristine or serene setting. However, when users are not engaged in amusement park activities and are standing at the water's edge and looking out to the ocean horizon, the scene can feel more peaceful and undeveloped. For users that engage in concentrated viewing, the ocean may be the most important component of the viewer's experience.

The rating panel scores indicated a VTL of 5 from this KOP, which is approximately 17.2 miles from the nearest WTG. As such, during very clear conditions, the WTGs could be the major focus of attention for viewers concentrating on the ocean view and would contrast with the line, form, color, and of the ocean horizon in the existing view. It is important to note that the waves present in the photosimulation are particularly large and a calmer ocean could reveal more of the Projects. However, the visibility and perceived density of WTGs would be significantly reduced during most summer days due to atmospheric perspective. The 2019 meteorological data suggests that the availability of views to that presented in the visual simulation would only occur over approximately 4.6% of the month of September. Two other conditions are also presented in Attachment E and these simulations illustrate the appearance of the WTGs when visibility is limited to within distances 18 and 20 miles. These conditions occurred during 31% and 27% of

the month of September, respectively. Simulations under these conditions illustrate that all but the closest WTGs are completely obscured from view, and even the visible portions of the Projects are difficult to perceive on the horizon. While visible, it is not anticipated that the WTGs will result in any significant effects on viewer enjoyment of Gillian's Wonderland Pier.

Corson's Inlet State Park (OC01)

Viewers at Corson's Inlet State Park are most likely to include residents and tourists and particularly those that occupy the abundance of beachfront rental homes north of the park. This state park provides minimal parking for users, so it is likely that many people access the park on foot. Viewers will be engaged in typical beach activities primarily including sunbathing or fishing. In both instances, the primary view is likely to be directly east over the water the Project would occupy a small portion of that primary view. During the very clear conditions presented in the photosimulation, the rating panel scores resulted in a VTL 4 which suggests that the WTGs will be obvious to viewers and sufficient in scale to compete with the undeveloped seascape horizon, but not to the degree that it occupies a major portion of the primary view. At a distance of 21.7 miles, the movement of the WTG blades will likely draw viewer attention on clear days. However, during the summer months when most viewer will be affected by the Projects, visibility of the nearest WTGs will be infrequent. When the nearest WTGs are visible, views are not likely to include the entire array (see Section 3.2.3). Given the viewer activity, orientation, and sensitivity at this KOP, during times of turbine visibility, it is possible that the presence of the Projects may affect the viewers perception of the undeveloped ocean horizon due to the presence the man-made elements. For viewers involved in active recreation, the presence of the WTGs is unlikely.

Townsend's Inlet Bridge (SIC01)

The Townsend Inlet Bridge is the only direct route to and from Sea Isle Inlet and Avalon, New Jersey. In the summertime recreationalists walk, run, and bike over the bridge from parks on either side. Additionally, the bridge is crossed by over 1,000 cars per day in the offseason and approximately 7,800 vehicles during the summer season (NJDOT, 2018). Drivers on this bridge are likely to be focused on the road and will not have the opportunity for extended ocean viewing. In the height of the summer season, it is possible that traffic may slow or stop allowing for short duration observations of the ocean horizon. Similarly, bikers will be concentrating on negotiating traffic. Although their travel speed is significantly lower than vehicular traffic and allows for some degree of detailed observation, bikers and drivers using the bridge will need to keep their focus on the road and other vehicles. Walkers and runners have greater opportunities to stop and take in views from the two observation platforms located on opposite sides of the bridge. These users are likely to be the most sensitive to changes in the landscape, seascape, and ocean. However, this iconic bridge serves as a gateway between two barrier islands, so the presence of the ocean as a background feature is an important component of any method of travel.

With the Projects in place, the WTGs resulted in a VTL of 5 from this location. At a distance of 27.4 miles, this elevated perspective combined with the morning sun, results in WTG contrast with the line, form, color, and texture of the ocean surface due to the high contrast lighting conditions. Under the conditions illustrated in the photosimulation, the WTGs will likely be recognized by most users, regardless of their mode of transportation. However, the ocean horizon is interrupted on both sides of the inlet by multistory buildings and human development. The WTGs may draw viewer attention due to the rotor movement, but the entire view is animated by human activity in the foreground, which is much more likely to attract and

hold viewer attention. Due to the abundance of vehicular traffic, the viewshed would not be considered serene or undeveloped, but the WTGs could add visual clutter in a place where it did not previously exist. Under exceptionally clear conditions, the presence of the WTGs could detract from the viewer's experience which was a previously undeveloped ocean horizon. However, under more typical weather conditions atmospheric perspective is likely to drastically minimize the visibility of the WTGs at this distance. During typical summer viewing conditions, it is likely the drivers on the bridge would not see the WTGs and stationery or slow-moving observers would likely only perceive a few faint WTGs on the horizon. The reduction in stacking or layering of visible WTGs under these conditions would likely minimize their visual prominence and the impact to viewers would be minimal. This is supported by the typical conditions simulations produced from Gillian's Wonderland Amusement Park (OC04), which indicated minimal visibility of the WTGs and OSSs during typical atmospheric conditions. Since the Townsend Inlet Bridge is just over 10 miles greater in distance from the Projects than OC04, it is anticipated that visibility under typical conditions would conceal an even greater portion of the Projects if not completely obscuring them from view.

Cape May Point State Park (LT02)

Viewers at Cape May Lighthouse mostly consist of tourists and vacationers whose numbers may exceed 100,000 per year. Most visitors climb to the viewing platform of the lighthouse to take in elevated views of the ocean extending across 270 degrees of the horizon. Viewers specifically climb this lighthouse to see the seascape and landscape from a rare, elevated perspective. The ocean and views to the ocean horizon are integral to the viewer experience due to the inherent function of lighthouses and the unique view it provides.

Rating panel results indicated a VTL of 2 from this KOP, suggesting that the WTGs are very small and faint, but may be detected by scanning the horizon. At a distance of 47 miles, this degree of visibility would be extremely rare and atmospheric perspective is likely to completely eliminate WTG visibility, over the majority of the year. As such, it is unlikely that the Projects will result in any impacts to the viewers experience from this resource.

3.2.2 Character Area Visibility

As illustrated in Table 3.2-2, impacts to character areas will be most significant in those portions that occur within the ZVI and the 0-10 mile zone. Notable character areas with significant areas of potential project visibility include the Ocean, Undeveloped Beach, Residential Beachfront, Salt Marsh, Commercial Beachfront, Atlantic City, and Undeveloped Bay. These areas of potential visibility within the various distance zones are described in greater detail below.

Due to the fact that the Projects are being proposed within the Ocean character area and there is a distinct lack of screening features on the water 100% of its area within 30 miles will have views of the WTGs and OSSs. While the Ocean character area within these distance zones is currently pristine and undeveloped, views from within it may contain a heavily manipulated and developed shoreline in some directions. On the other hand, some views bring a sense of vast, openness that would be altered by the presence of the WTGs and OSSs when viewing the ocean from within or beyond the WTA (cruise boats, offshore fisheries, and freight vessels) or from nearshore areas (recreational boaters, jet skiers, and kayakers). Portions of the Ocean character area extending beyond 30 miles, occur outside of the ZVI (3.7%) and would not have visibility of the Projects. The majority of these areas occur near the inlet to Delaware Bay and to the east of the Projects where curvature of the earth eliminates visibility of the WTGs.

Within 10 miles of the Projects, 94% of the Salt Marsh character area could have views of the proposed WTGs and OSSs. This constitutes multiple areas covering a total of approximately 1,087 acres and includes

the large salt marshes in Galloway Township and Brigantine. In most instances, views from these areas are visually disconnected from the ocean by the presence of the barrier islands. From 10-20 miles, there is a considerably larger portion (41,000 acres) of the Salt Marsh character area within the ZVI. The KOP from the Bay Boulevard Rutgers Field Station (LEHT02) provides an example of potential visibility of the Projects from within this character area. This KOP represents one of the most open, unobstructed views from within this character area and the Projects resulted in a VTL 6, suggesting that the presence of the WTGs and OSS could, at times, result in a significant change to the horizon when viewed from within the Salt Marsh character area. Visibility begins to drop significantly in the 20-30 mile zone due to screening provided by the barrier islands to the northwest and southwest of the Projects. This distance range is illustrated in the KOP from Tuckahoe WMA (EMC01) which is 25.7 miles from the Projects and resulted in the VTL 1. In this zone 25,000 acres or 54.6% of the Salt Marsh occurs within the ZVI. Beyond 30 miles, this visibility drops to 4,700 acres and 11.1%.

Similar to the Salt Marsh character area, the Undeveloped Bay character area also has visibility of the Projects from within the 10-mile zone. In this case, 570 acres occurs within the ZVI constituting approximately 98.6% of the Undeveloped Bay within 10 miles. While portions of the bays occurring behind the barrier islands have direct connections to the ocean, the majority of this zone is distinct from the ocean and rarely includes ocean views. However, the turbines extend well above the barrier islands and could become a highly visible component of the seascape during clear conditions. Within 10-20 miles, the portion of Undeveloped Bay within the ZVI drops to 90.8% but makes up a vast 53,000 acres. Lack of visibility in some areas is likely the result of considerable screening provided by foreground vegetation and structures on the barrier islands and adjacent to the bays. In these areas, when views of the Projects are available, portions of the WTA will be screened by these features resulting in a reduced visibility and visual impact. Within 20-30 miles the area of potential visibility is reduced to 25,000 acres and 74.0% and 21,000 acres and 50.8% beyond 30 miles.

The ZVI contains 510 acres or 77.9% of the Undeveloped Beach character area within 10 miles of the Projects. As illustrated in the photosimulations from North Brigantine Natural Area (BC02), Corson's Inlet State Park (OC01), and Edwin B. Forsythe NWR (LBT04), this character area contains some of the closest land-based viewing opportunities of the Projects. The ocean is a significant contributor to the visual character and sense of place of this character area and the presence of the WTGs and OSSs changes the undeveloped character of the ocean horizon by adding large, manmade infrastructure which would be visible from shore during most clear days and some partially obscured days. Within 10-20 miles, the portion of Undeveloped Beach within the ZVI is 73.1% made up of 527 acres. Within 20-30 miles this number drops to 495 acres and 52.7% acres and then increases again to 1,062 acres and 38.6% beyond 30 miles, at which point the Projects are expected to have less influence on visual character due to the visibility diminishing effects of distance, scale, and atmospheric perspective.

One hundred and twenty four acres of land area or 87.4% of the Residential Beachfront character area occur within the ZVI within 10 miles of the Projects. The ocean is a significant contributor to the visual character and sense of place associated with the Residential Beachfront character area. Homes were placed here for the purpose of the ocean horizon by adding large, manmade infrastructure, a portion of which would be visible from shore on clear days. This change to the Ocean character area indirectly alters the character of ocean views from within the Residential Beachfront character area. The majority of these properties within 10 miles of the Projects will experience this change in character during clear viewing conditions. Considering distances from 10 to 20 miles, the area of potential visibility increases to 1,810 acres which makes up 80.6% of Residential Beachfront areas. KOPs from Ship Bottom Borough (SBB01) and three views from Beach Haven Borough (BHB01-03) illustrate typical views from within this distance range and each resulted in potential significant visual impacts resulting from the Projects during optimal viewing conditions. Between 20 and 30 miles, 1,481 acres or 18.9% of the Residential Beachfront areas are indicated as having potential visibility of the Projects. The visual impacts within this distance range are expected to be significant during high-

contrast lighting conditions and clear weather. Beyond 30 miles, 60.8% or 609 acres occur within the ZVI. Within this distance range, the photosimulations generally support the conclusion that the Projects will result in minimal impact to the Residential Beachfront Character Area. This is supported by KOPs from Seaside Beach Park (SPB01), and Cape May Point State Park (LT02).

Visibility from within the Commercial Beachfront character area includes a portion of beachfront in Atlantic City and Ocean City between 10-20 miles, and Wildwood beyond 30 miles. As such, no Commercial Beachfront exists between 0-10 miles and 20-30 miles. Approximately 307 acres or 89.3% of the Atlantic City and Ocean City Commercial Beachfront could have some degree of visibility of the Projects from 10-20 miles distant. This condition is represented in the photosimulation from Atlantic City (ACO2) and Ocean City (OCO4) in which the impacts were considered significant during clear viewing conditions. This suggests that the Projects have the potential to alter the character of the Commercial Beachfront. However, this character area is typically defined by features that have already drastically altered the seascape environment and are intentionally situated on the shoreline for the purposes of attracting crowds for the purpose of sustaining commercial enterprises. Given the degree of seascape alteration already present, it is not anticipated that the Projects will result in a loss of the sense of place or alteration of character defining features within these areas. Beyond 30 miles Commercial Beachfront visibility occurs in the City of Wildwood. In this case approximately 298 acres or 55.5% of the beachfront may have visibility of the Projects. However, in this distance zone the potential impacts are expected to be negligible to minimal during the majority of lighting and visibility conditions anticipated.

Visibility from the Atlantic City character areas occurs within the 10-20 mile zone and includes 6.9 percent or 138 acres. This area of visibility is generally limited to the beachfront and boardwalk and is illustrated in KOPs from Ocean Casino Resort – Sky Garden (ACO4). Atlantic City is a distinct character area in that just beyond the Oceanfront Commercial character area, the area is heavily developed and in areas this development spills out into the ocean for hundreds of feet. This seascape is unlike others within the VSA, and its sense of place is characterized by large, imposing buildings, digital signs in constant motion, and large restaurants. While the Ocean and Commercial Beachfront are important adjacent character areas to viewers, the presence of the WTGs and OSSs does little to alter the character within the thick of Atlantic City. The presence of built elements on the ocean is not without precedent here and the effects produced by additional development would not detract from this area's sense of place.

In addition to the seascape character areas described above, some landscape character areas also had notable visibility of the Projects from inland locations. For example, 68 acres or 24.8% of the Inland Residential character area within 10 miles of the Projects could have visibility of the WTGs and OSSs. This area is mainly concentrated in Brigantine where narrow bands of visibility extend inland along residential streets that are aligned with some portions of the Projects. However, it is anticipated that these views will not include the ocean and would likely only include a portion of the Projects due to tightly framed views constrained by dense residential development. Given the degree of competing foreground development and relatively small portions of the Projects that would be visible, it is not anticipated that the Projects would result in a significant change to the character of the Inland Residential character area. From 10 to 20 miles, the area of potential visibility increases to 492 acres which only consists of 2.3% of Inland Residential areas in this distance zone. Between 20 and 30 miles, less than 1% of Inland Residential areas would have visibility of the Projects. This is likely due to distance and the screening effects of shoreline topography and development. Beyond 30 miles, visibility of the Projects from Inland Residential areas diminishes to less than 0.1%.

The Industrial character area typically contains areas of undeveloped space in the form of parking areas, landfills, and airport runways. These areas are generally surrounded by areas of intensive land use or are in locations that lack significant visual character. Although minimal visibility does occur in this character area, the Projects will not change the visual environment. Within 0-10 miles, there are no industrial areas of

significance. Within 10-20 miles the ZVI occurs within 141 acres or 6%, within 20-30 miles approximately 1,351 acres or 17% occur within the ZVI, and beyond 30 miles, 165 acres or 1.2% of the industrial character area occurs within the ZVI.

There are no Dredged Lagoon character areas within 0-10 miles of the Project. However, between 10-20 miles 182 acres (8.6%) occur within the ZVI. Between 20-30 miles 53 acres (2.2%) occur within the ZVI, and beyond 30 miles, 64 acres (1.4%) occur within the ZVI. The KOP from Edwin B. Forsythe NWR at the Woodmansee Estate (LAT01) provides a view from 32 miles distant. This view resulted in a VTL 4, which suggests that the Projects could be of sufficient scale to contrast with other landscape features in the view. However, given the proportional visibility occurring within this character area, the Projects are unlikely to significantly alter the visual environment associated with this character area. More likely, visibility of the Projects will occur in areas along the boundaries of the densely situated homes and views from within will not have the same opportunities for visibility of the Projects.

Bayfront residential areas have a small area of ZVI occurring between the 0-10 mile range. Four acres or 57% occur within the ZVI and this primarily occurs on the bay side of Brigantine and Chelsea Heights west of Atlantic City. From 10-20 miles, 84 acres (11.7%) occur in the ZVI, from 20-30 miles, 25 acres (4%) occur in the ZVI, and beyond 30 miles 16 acres (2%) of this character area occur within the ZVI. In these area the views toward the Project will be sporadic and typically framed by intensely developed land. The ocean is typically not visible from these areas and the main character defining features are the views over the bays, which are typically looking away from the Projects. Generally, the Projects are not anticipated to significantly alter the character of the Bayfront Residential areas.

The Limited Access Highway character area has occasional views of the Projects while winding through portions of salt marsh and inland bays as they funnel into Atlantic City and the outer beaches. No visibility occurs within 10 miles, but from 10-20 miles 130 acres (12.1%) occur in the ZVI. This drops to 81 acres (3.1%) between 20-30 miles and 7 acres (0.3%) beyond 30 miles. The highway character area is highly variable based on the adjacent character areas through which it runs which can result in highly variable scenic quality and defining features. However, visibility of the Projects from this resource is likely to also include areas of intensive development. As such, it is unlikely that the Project will detract significantly from the features that characterize the Limited Access Highway character area. In some cases, the Projects my even contribute to the views by adding an element of interest juxtaposed with the shoreline development.

With 10 miles of the Projects, one acre (58.1%) of the recreation character area occurs within the ZVI. This includes several parks that occur near Brigantine and Atlantic City. These parks are typically located inland from the shoreline and visibility is generally in the form of narrow bands of viewshed running up the streets adjacent to the park. These areas are unlikely to experience significant changes in character resulting from the Projects. Within 10-20 miles 197 acres (11.1%) of recreation lands occur within the ZVI and from 20-30 miles, 133 acres (2.8%). The view from Barnegat Lighthouse (BLB02) provides an elevated example of visibility from within this character area. At 27 miles, this view received a VTL 2 during overcast conditions which suggests that the Projects could be missed by casual observers. However, during clearer conditions, it is possible that this view could reach a VTL 4. Given the sensitivity associated with many recreation areas situated on the coast, the ocean can be an important character defining feature. Because the ocean is typically seen as pristine and free of development, the Projects could detract from the sense of place at some of these resources. However, as discussed above, the Projects would be visible from a proportionally low number of these resources. Therefore, it is unlikely that the recreation character area will be adversely impacted by the Projects, given the relatively low frequency of visibility.

Inland Open Water character areas do not occur within 10 miles of the Projects. Between 10 and 20 miles 34 acres or 3.8% of the character area may be affected. This increases to 413 acres (9.8%) between 20-30 miles and less than one acre beyond 30 miles. Inland open water is typically associated with recreation

lands, river basins, and less frequently, ponds and lakes. They are often features that contribute to scenic quality of the surrounding character areas when visible. However, the ocean is rarely a significant feature of these views, if visible at all. Often times, these features themselves are the character defining feature and therefore the focus of the view. Because they all occur inland of the seascape, there is a high likelihood that shoreline development will be a significant part of any outward views and therefore, the Projects are unlikely to significantly detract from these resources.

Many of the other inland landscape character areas contained minimal areas of potential visibility of the Projects. Considering the Agriculture character area, none occurs between 0-10 miles. The zones from 10 to 45.1 miles contained only 20 acres of sporadic visibility constitutes less than 0.03% of the land areas that make up this character area. Given that these areas are so far inland, it is likely that any visibility of the Projects will affect the character of agricultural areas. Similarly, Commercial Strip Development, Town/Village Center, and Forested Areas have disproportionally low occurrences in the ZVI. As such these areas will not be affected by the Projects. When visible, the Projects will be viewed amongst foreground features that will be substantially more dominant than the WTGs.

Table 3.2-2 Character Area Visibility by Distance Zone

	0-10 Miles		10	-20 Miles	20-	30 Miles	Greater Than 30 Miles	
Character Area (CA)	Total CA Area (Acres)	Area of ZVI within CA (Acres and % of CA)	Total CA Area (Acres)	Area of ZVI within CA (Acres and % of CA)	Total CA Area (Acres)	Area of ZVI within CA (Acres and % of CA)	Total CA Area (Acres)	Area of ZVI within CA (Acres and % of CA)
Open Water/Ocean	612,513	612,513 (100%)	745,343	745,326 (100%)	940,033	940,033 (100%)	1,963,100	1,891,310 (96.3%)
Undeveloped Bay	577	569 (98.6%)	58,827	53,418 (90.8%)	33,619	24,892 (74.0%)	40,826	20,745 (50.8%)
Residential Beachfront	142	124 (87.4%)	2,244	1,810 (80.6%)	1,876	1,481 (78.9%)	1,000	609 (60.8%)
Salt Marsh	1,157	1,087 (94.0%)	49,075	41,271 (84.1%)	45,081	24,634 (54.6%)	42,116	4,669 (11.1%)
Commercial Beachfront	-	-	344	307 (89.3%)	-	-	538	298 (55.5%)
Undeveloped Beach	656	510 (77.9%)	721	527 (73.1%)	939	495 (52.7%)	2,750	1,062 (38.6%)
Atlantic City	-	-	2,012	138 (6.9%)	-	-	-	-
Industrial	-	-	2,338	141 (6.0%)	8,006	1,351 (16.9%)	13,859	165 (1.2%)
Bayfront Residential	8	4 (57.0%)	717	84 (11.7%)	610	25 (4.0%)	772	16 (2.0%)
Dredged Lagoon	-	-	2,116	182 (8.6%)	2,428	53 (2.2%)	4,637	64 (1.4%)
Limited Access Highway	-	-	1,076	130 (12.1%)	2,653	81 (3.1%)	2,387	7 (0.3%)
Recreation	3	1 (58.1%)	1,782	197 (11.1%)	4,757	133 (2.8%)	6,364	76 (1.2%)

	0-10 Miles		10-	-20 Miles	20-3	30 Miles	Greater Than 30 Miles	
Character Area (CA)	Total CA Area (Acres)	Area of ZVI within CA (Acres and % of CA)	Total CA Area (Acres)	Area of ZVI within CA (Acres and % of CA)	Total CA Area (Acres)	Area of ZVI within CA (Acres and % of CA)	Total CA Area (Acres)	Area of ZVI within CA (Acres and % of CA)
Inland Open Water	-	-	903	34 (3.8%)	4,229	413 (9.8%)	11,901	<1 (<0.1%)
Commercial Strip Development	12	4 (31.6%)	3,766	208 (5.5%)	3,931	39 (1.0%)	11,181	33 (0.3%)
Inland Residential	273	68 (24.8%)	21,258	492 (2.3%)	32,232	114 (0.4%)	89,457	24 (<0.1%)
Town/Village Center	10	3 (31.1%)	131	1 (0.8%)	445	1 (0.1%)	1,083	<1 (<0.1%)
Forest	30	3 (9.0%)	22,908	185 (0.8%)	226,222	996 (0.4%)	565,608	137 (<0.1%)
Agriculture	-	-	435	2 (0.4%)	10,007	16 (0.2%)	60,116	2 (0%)

3.2.3 Other Factors Affecting Visibility and Visual Impact

As discussed in Section 3.2.1, the Projects could result in appreciable visual impacts to several onshore visual resources due to scale contrast, spatial dominance, and compatibility with existing elements in the landscape/seascape. However, it is important to note that most of the visual simulations were photographed during exceptionally clear conditions and in many instances were also backlit by the sun, making the WTGs appear dark against a light, cloudless horizon. While the simulations generally illustrate minimal atmospheric haze and screening, actual visibility of the Projects will be limited by several other factors not specifically illustrated in the visual simulations evaluated in this VIA. As mentioned previously, these include weather conditions, waves on the ocean surface, humidity, and air pollution.

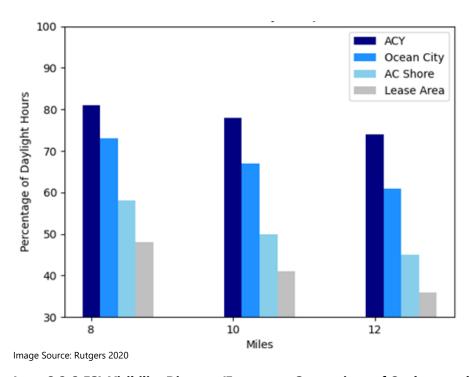
A study completed by the Rutgers School of Environmental and Biological Sciences for the Atlantic Shores Wind Project titled, *Initial Visibility Modeling Study for Offshore Wind for New Jersey's Atlantic Shores Offshore Wind Project* (Attachment H) provides relevant data regarding offshore visibility frequency and trends as influenced by meteorological conditions. Forecast Systems Laboratory (FSL) predictive models were used to determine visibility distance using past meteorological data from Atlantic City International Airport and Ocean City Municipal Airport. The FSL predictive model uses inputs such as temperature, relative humidity, and dew point temperature to determine the potential distance and frequency of specific viewing conditions (Rutgers, 2021). The results of this study are summarized below.

- Initial observations suggest that visibility to a distance of 8 and 10 miles (13 and 16 km) from Atlantic City International Airport occurred over 73% and 89% of daylight hours, respectively, in any given year. These same observations from Ocean City Municipal Airport suggest that visibility frequencies were 6% and 12% lower than those observed at Atlantic City International Airport.
- The higher visibility at Atlantic City International Airport can be attributed to the drier inland air, compared to the more humid coastal air around Ocean City Municipal Airport. Additionally, considering offshore visibility, higher humidity and larger temperature differences between the air and ocean surface cause haziness and marine clouds/fog to occur more frequently offshore.
- Although inland visibility is relatively high, there will be lower visibility when looking offshore toward the Atlantic Shores Lease Area. Between Atlantic City International Airport and the Lease Area, a distance of roughly 25 miles, the percentage of daylight hours with a calculated visibility of 10 or more miles (16+ km) decreases from 78% to 41% based on past meteorological studies.
- Over the ocean, the average visibility in April, May and June ranged from 2.5 to 10 miles (4 to 16 km), which is consistent with lower frequencies above 10 miles in the Ocean City Municipal Airport observations.
- Over the ocean, the average visibility in July and August, (when visibility frequencies over 10 miles in Ocean City are above 75%) ranges from 5 to 12 miles (8 to 19 km).
- The yearly, monthly, and summer average visibility each share a trend of increasing visibility from the morning to the late afternoon. Higher visibility over the land appears to extend out into the ocean throughout the day. This is consistent with warmer temperatures during the day lowering the relative humidity and causing higher visibility.

Based on the results of the Rutgers visibility analysis, it is reasonable to conclude that the VIA presents worst-case visibility conditions in which the entirety of both Projects could be visible when viewed from significant distances. While it is very important to illustrate the greatest potential visibility and visual

prominence to understand greatest potential visual impacts associated with the PDE, the frequency of these conditions is a relevant and mitigating consideration. As shown in Inset 3.2-3, the average frequency of visibility to 10 miles could occur during as little as 41% of daylight hours. As described in Section 2.3.1 and 3.2.1, only one of the visual simulations, and a very small portion of the VSA and ZVI occurs within 10 miles of the Projects. Consequently, during up to 59% of the daylight hours in a given year, it is anticipated that all, or the vast majority of WTGs will not be visible from onshore resources.

As an example, from the closest KOP included in the visual simulations (and the closest onshore location within New Jersey) the nearest WTG is approximately 8.8 miles (14 km) offshore, but the most distant WTG is located approximately 24 miles (39 km) from the KOP. Based on the results of the Rutgers meteorological study, the first row of WTGs would be visible from this KOP over approximately 50% of the year, the first two rows would be visible over approximately 40% of the year, and portions of the nearest four rows could be visible during approximately 25% of the year during daylight hours (see Inset 3.2-3). Under these weather conditions it would likely be difficult to discern WTGs beyond the initial four rows which would substantially decrease the perceived scale contrast, horizon occupation, and overall density of WTGs. The mitigating effects of atmospheric perspective could serve to reduce the potential visual impacts associated with the Projects during significant portions of the year, and during these low visibility periods, would likely eliminate visibility of the Projects entirely from most shoreline locations within the ZVI.

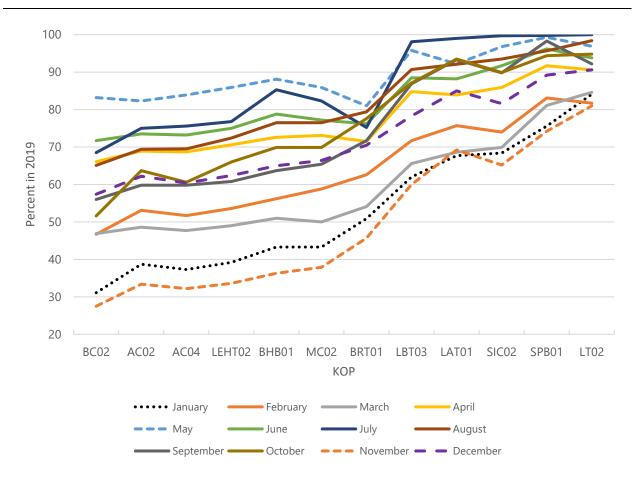


Inset 3.2-3 FSL Visibility Distance/Frequency Comparison of Onshore and Offshore Receptors

Considering the mitigating factors associated with atmospheric perspective, Atlantic Shores intends to supplement this VIA with visual simulations illustrating variable conditions and a detailed meteorological analysis to predict the frequency of each visibility condition. While the VIA and simulations currently

illustrate and analyze the maximum range of potential visual impact throughout the ZVI, the supplement to this analysis will investigate more likely viewer experience and more typical frequency of Project visibility.

Epsilon Associates also analyzed the data collected by Rutgers to characterize visibility over the entire year using the hourly visibility data. The results suggest that from many of the KOPs, atmospheric perspective will have a significant effect on visibility of the Projects from each of the KOPs. The visibility data for 13 of the 22 KOPs was compiled for each of the 12 months in 2019 and then delineated by morning, midday, afternoon, and evening to illustrate how visibility changes throughout the seasons and throughout the day. Cumulatively, these data suggest that January was the month during which visibility was the highest and April had the lowest frequency of visibility of the Projects. These trends are likely due to the presence of higher moisture content in the ambient air during spring resulting from a large air/water temperature differential along with increased events such as rain which are typical during this time. In winter, the air/water differential is still significant, but colder air has less capacity to hold moisture and therefore, less dissipation and refraction of light and the resulting visibility. Monthly Project obscuration from each KOP is presented below in Inset 3.2-4. It is important to note that low visibility conditions do not necessarily suggest poor weather conditions. In fact, this portion of the New Jersey coast has a high percentage of sunny days and visual assessment field observers often encountered bright, sunny conditions with exceptionally low visibility over the water and high visibility over land. These observations are supported by the study completed by Rutgers, which found that between the Atlantic City Airport and the OCS, visibility extending to 10 miles decreases from 78% over land to 41% over water. This significant decrease in visibility is attributable to the temperature difference between the air and ocean water, which results in high moisture content (Rutgers, 2021).



Inset 3.2-4 Percentage of Time the Projects Were Obscured by Atmospheric Perspective From KOPs

This data suggests that the photosimulations and resulting visual impact determinations presented in this VIA provide a very conservative assessment. Field photography specifically targeted high visibility conditions over the water and multiple field photography attempts (during which high visibility and fair weather was predicted) resulted in unsuitable conditions for the photographing a conservative case. In reality, the duration and frequency of Project visibility is expected to be minimal and therefore the visual impacts associated with the Project's should be tempered in anticipation of the mitigating effects of atmospheric perspective. It should be noted that the data collected in 2019 was compared to a 10-year data set to determine if the condition present in 2019 are representative of meteorological norms for the region. This dataset revealed that in fact, 2019 is representative of typical expected weather patterns and is reasonably reliable as a predictor of future conditions in terms of visibility frequency. Additionally, this data is drawn from a ground level visibility measurement device and extremely localized events such as fog may only apply to receptors viewing the water from ground level. The data may not be representative of visibility elevated positions during these events.

3.3 General Mitigation

As currently proposed, the Project introduces a large scale, renewable energy generating development to a largely undeveloped seascape. Even though portions of the shoreline and inland areas within the VSA are highly developed or disturbed, according to the evaluation conducted as part of this study, the Project has the potential to result in adverse visual impacts to some onshore resources occurring within the ZVI.

However, the Project has incorporated several mitigation measures which effectively reduce the potential visual impacts to the greatest extent practicable given the nature of the technology and the geographic areas deemed suitable for offshore wind energy development. The mitigation measures incorporated into the Project design include the following:

- The Project is located in a designated offshore wind developed area that has been identified by BOEM as suitable for development.
- WTGs will have uniform design, rotation speed, height, and rotor diameter, thereby mitigating visual clutter. The white color of the WTGs (required by BOEM) generally blends well with the sky at the horizon, even under clear sky conditions, and eliminates the need for daytime warning lights or red paint marking of the blade tips.
- Atlantic Shores will use ADLS (or a similar system) to limit visual impact pursuant to approval by the FAA and commercial and technical feasibility at the time of FDR/FIR approval.

An analysis was completed by Capitol Airspace titled, *Aircraft Detection Lighting System (ADLS) Efficacy Analysis* to determine the likely activation time of the FAA light if ADLS is implemented. This study reviewed information included in the FAA National Offload Program (NOP), which indicates the location of aircraft based on existing radar systems throughout the country. The NOP data were collected and analyzed to determine when and for how long aircraft traverse the Project airspace during a given year, requiring the aviation obstruction lights to be activated (Capitol Airspace, 2021). The results of this analysis are presented in Table 3.3-1, below.

As illustrated in Table 3.3-1, based on past flight data, the AOWL would be activated for a total of approximately 10.9 hours over a 1-year period. The maximum monthly activation time would occur in November when past flight data suggest activation times would increase to approximately 2 hours and 45 minutes over the entire month. April, May, June, August, and September had the lowest activation frequency with an average activation time of 21 minutes per month. Considering the low frequency of light activation, nighttime visual impacts associated with the aviation obstruction lights would become intermittent and minor.

Table 3.3-1 Typical Monthly Duration of AOL Activation

Month	Nighttime Observed (HHH:MM:SS)	Light System Activated Duration (HH:MM:SS)
January	479:05:44	01:08:24 (0.24%)
February	405:38:51	01:26:57 (0.36%)
March	410:56:29	01:01:29 (0.25%)
April	359:01:19	00:23:44 (0.11%)
May	337:05:53	00:20:34 (0.10%)
June	309:35:09	00:22:24 (0.12%)
July	328:20:35	01:07:35 (0.34%)
August	357:52:21	00:22:54 (0.11%)
September	383:14:51	00:19:04 (0.08%)
October	435:42:32	00:40:48 (0.16%)
November	455:22:55	02:45:37 (0.61%)
December	488:44:19	00:51:46 (0.18%)
TOTAL	4750:40:58	10:51:16 (0.23%)

Table Source: Capitol Airspace, 2021

Additional mitigation measures were also considered. While some of these mitigation considerations could serve to incrementally reduce potential visual impacts associated with the Project, some mitigation options may not be feasible due to regulatory requirements. The feasibility and possible benefits of such measures are described below:

Relocation: Project site and/or individual turbine relocation is not under consideration. The Project is already located offshore in water depths suitable for offshore wind energy development, reflecting the substantial effort that has been expended in identifying suitable wind energy areas on the OCS. It is unlikely that changes to the orientation or arrangement of the turbines could reduce visual impact by eliminating the perception of stacked turbines on the horizon, as this perception will vary from viewpoint to viewpoint within the ZVI. Substantially reducing the perception of WTG stacking would likely require a significant reduction in developable area. It is possible that a reduction in the total number of WTGs could result in a reduction of visual impacts from some of the closest KOPs, but not without adversely affecting the generating capacity of the Project.

Camouflage: Alternate color selection or attempts at camouflaging the WTGs are not effective or feasible in mitigating visual impacts of offshore wind turbines. Under most conditions, the white color of the WTGs generally minimizes contrast with the sky and the yellow foundation is barely perceivable or not visible due to screening provided by atmospheric perspective and/or curvature of the earth. This is demonstrated by simulations prepared under a variety of sky conditions and distances from the Project. Additionally, the white color of the WTGs is necessary to comply with FAA guidance and avoid daytime lighting.

Scale: While a reduction in turbine height could lessen scale contrast, this reduction would have to be considerable before it would be perceived from shoreline viewpoints. In addition, the line, form, and texture of shorter turbines (which contribute to their contrast with the existing seascape) would remain essentially the same, and more WTGs would be required to maintain the Project's generating capacity.

4.0 CONCLUSIONS

An important consideration in visual impact assessment is to avoid the assumption that project visibility automatically equates to an adverse visual impact. The degree of project visibility will vary greatly depending on the distance of the viewer from the project; meteorological conditions; degree of screening from structures, vegetation, and curvature of the earth; visual acuity of the viewer; and the ability of the viewer to recognize the WTGs. Projects that are located offshore, relatively far from the viewing public may go completely unrecognized, due to the fact that their visibility is obscured by atmospheric perspective, and if visible at great distances, are perceived as secondary to the larger visual landscape. Water, trees, lighthouses, and other natural and built features often remain the focus of attention. Results from a study in which offshore wind farms were viewed at various distances and conditions in Europe, suggest that small to moderately sized offshore wind farms may be visible to the unaided eye at distances greater than 26 miles (42 km) (the maximum distance considered in that study). However, these same facilities were determined to be the focus of viewer attention when viewed at distances within 10 miles (16 km), noticeable to casual observers at distances of up to 18 miles (29 km), and only visible after concentrated viewing when viewed from greater than 25 miles (40 km) (Sullivan et. al. 2012). As mentioned previously, the Projects are proposing WTGs that are larger than the turbines evaluated in this study. As such, under clear conditions and strong lighting contrast (i.e., backlit or strongly front lit against a dark sky) the turbines are likely to be noticeable at distances over 30 miles (48 km), but visibility and visual prominence will diminish significantly between 30 miles (48 km) and 40 miles (60 km) as illustrated in the visual simulations. The Edwin B. Forsythe NWR at the Woodmansee Estate (LAT01) is 32 miles (52 km) from the Projects and received a VTL 4, suggesting that the WTGs are plainly visible and would not be missed by casual observers. However, the KOP from Seaside Beach Park (SPB01) which is 39 miles (63 km) from the Projects received a VTL 1, which suggests the WTGs would only be visible after extended, concentrated viewing. As such, the simulations support the conclusion that 40 miles (60 km) is an appropriate VSA, and beyond a distance of 35 miles prominence and visual impact will be negligible.

The following additional conclusions can be drawn from the VIA:

- The viewshed analysis and field verification indicate that the Project has potential visibility from a relatively small portion of the land area within the VSA. The lidar viewshed analysis suggests that views of the WTGs will be available from approximately 12.5 percent of the land area within the VSA, which defines the ZVI. Three percent of the landward VSA (28 percent of the ZVI) will only include views of the turbine blades which is generally the result of partial screening provided by the barrier islands from inland bay and mainland viewing locations. The majority of landward Project visibility (155 sq. mi.) occurs within 10-20 miles (16-32 km) of the Project over uninhabited inland bays. Visibility diminishes significantly between 30 and 40 miles (48-64 km), contributing only 44 sq. mi. to the ZVI. The viewshed analysis also indicated potential visibility along the majority of the eastern shore of the barrier beaches.
- The lidar viewshed suggests that views of the AOWL on the WTGs will be available from approximately 9 percent of the land area within the VSA. This reduction in visibility is largely the result of the lower height of the lights (as compared to the blade tips), combined with the screening effects of curvature of the earth at distance between 30 and 40 miles (48-64 km). The geographic areas that indicated visibility of the AOWL were generally a smaller subset of greater ZVI, particularly over portions of the inland bays and mainland. The FAA viewshed analysis indicated that AOWL

visibility from the barrier islands would completely diminish beyond 35 miles due to curvature of the earth.

- Field verification generally confirmed the results of the viewshed analysis with the exception of a few locations in which it was determined that visibility of the Project, while theoretically possible, would actually be mostly obscured by middle ground and background features. This condition was most often observed from mainland locations where barrier island development and forest vegetation served to substantially screen the majority of the Project. Field verification also confirmed that visibility will be available from some elevated positions outside the ground level ZVI, particularly along the barrier island shore. As discussed in Section 3.1.1, because structures are classified as screening features, the ZVI does not predict visibility from elevated human-made structures. This condition is most prevalent in Atlantic City and Ocean City, but very rare from inland areas. In conclusion, it was determined that the ZVI is an accurate and reasonable representation of the areas in which the Project may be visible, but likely a conservative representation.
- The proposed MET tower is a very minor component of the WTA and did not contribute to the potential visual impacts associated with the WTG array.
- Fourteen KOPs received elevated visual impact scores that resulted significant visual impacts to viewers. These KOPs included North Brigantine Natural Area (BC02), Ocean Casino Resort Sky Deck (AC04), Jim Whelan Boardwalk Hall NHL (AC02), Great Bay Boulevard WMA/Rutgers Field Station (LEHT02), Holyoke Avenue (BHB03), Centre Street Beach Haven (BHB02, Beach Haven Historic District (BHB01), Gillian's Wonderland Amusement (OC04), Ship Bottom Borough Municipal Beach (SBB01), Corson's Inlet State Park (OC01), Beach at Long Beach Island Arts Foundation (LBT03), Wildlife Refuge on South Long Beach Boulevard in Holgate (LBT04), Townsend Inlet Bridge (SIC02), and Island Beach State Park (BT01). These KOPs are relatively close to the Projects (ranging in distance from 9 miles [14 km] to 30.0 miles [48.2 km]) and averaged 17.9 miles. These KOPs received visual impact scores ranging from minus 3.8 to minus 5.3 and VTLs between 3 and 6.
- Elevated impacts can be attributed to the exceptionally clear conditions and high contrast lighting presented in the photosimulations. It is anticipated that, based on the meteorological study completed for the Project by Rutgers University and Epsilon, these lighting and visibility conditions will be relatively rare along this portion of the coast and visual impacts are likely to be substantially reduced during the prevailing atmospheric conditions.
- The Projects would result in somewhat significant visual impacts at three KOPs, including Edwin B. Forsythe NWR at the Woodmansee Estate (LAT01), Lucy the Margate Elephant NHL (MC02), and Barnegat Lighthouse (BLB02) These KOPs range from 14.4 miles (23 km) to 32.2 miles (52 km) and average 24.6 miles (39.6 km) from the Projects. However, it should be noted that the view from BLB02 does not necessarily represent the most conservative case conditions and impact could be higher during clear conditions.
- Rating panel results suggested visual impact scores of minus 3.8 to minus 4.4 for the three nighttime views. The rating panel indicated that the AOWL and navigation lights would become the focus of viewer attention and could change the character of the nighttime skies. However, the implementation of ADLS would eliminate the impact of the AOWL for all by 10.9 hours per year. Given infrequent activation time, it is anticipated that visual impacts associated with the AOWLs would be insignificant.

• The meteorological study completed by Epsilon Associates suggests that, based on 2019 data, all of the turbines would not be visible the majority of the time. In the months of May, June, and August during the height of the tourism season, no turbines would be visible during more than 80% of daylight hours. January, the highest visibility month, would have the greatest number of hours with turbine visibility. Still, visibility is only expected to occur during 50% of the daylight hours.

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ATTACHMENT A

VISUAL IMPACT ASSESSMENT STUDY PLAN – OFFSHORE

Visual Impact Assessment Procedure

Atlantic Shores Offshore Wind, LLC

New Jersey: OCS-A 0499

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Ramapough Lenape Nation
Inter-Tribal American Indians of New Jersey
New Jersey Commission on American Indian Affairs
New Jersey State Historic Preservation Office
New Jersey Department of Environmental Protection

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1.0 Introduction

Environmental Design & Research, Landscape Architecture, Engineering & Environmental Services, D.P.C. (EDR) has prepared the follow Visual Impact Assessment (VIA) Protocol in support of the development of the Atlantic Shores Offshore Wind, Project (Atlantic Shores). Atlantic Shores, a 50/50 joint venture (JV) between EDF-RE Offshore Development, LLC (an affiliate of EDF RD) and Shell New Energies US LLC, seeks to construct and operate an offshore wind energy generating facility on the Outer Continental Shelf (OCS) in the Bureau of Ocean Energy Management (BOEM) Lease Area OCS-A 0499 (Lease Area). At its closest point to shore the Lease Area is approximately 9 miles off the coast of Long Beach Township, New Jersey and extends approximately 31 miles in a southerly direction to approximately 18.5 miles off the coast of Ocean City, New Jersey. Figure 2.1-1 illustrates the Lease Area relative to the New Jersey coastline. Development of the Lease Area will include multiple offshore wind turbine generators (WTGs) which will harness kinetic wind energy for electricity production. This electricity will be collected in several offshore substations (OSSs) and will then be transmitted ashore in either New Jersey of New York for delivery to the regional electric grid. The VIA will assess the potential visual impacts associated with the construction and operation of the Project. The VIA will be included in Atlantic Shores' Construction and Operations Plan (COP) for review by BOEM and other state and federal agencies, in addition to stakeholders and other interested parties. A separate VIA Protocol and study will be completed, as necessary, for onshore components proposed by Atlantic Shores to support interconnection with the regional electric grid. Therefore, this protocol only addresses the study approach for the visual assessment associated with the offshore development within the Lease Area. A separate, but related study will be completed to assess the visual effects to onshore historic properties within the area of potential effects (APE) associated with the offshore development. This Historic Resources Visual Effects Analysis (HRVEA) will rely on several aspects of the VIA and will be included as an appendix to the COP. However, the assessment methodology associated with the HRVEA is not included in this document.

2.0 Study Approach

2.1 Definition of the Study Area

The document titled *Guidelines for Information Requirements for a Renewable Energy Construction and Operations Plan (COP)* (BOEM, 2016) indicates that visual impacts should be evaluated using photo simulations from locations within "the onshore viewshed from which renewable energy structures, whether located offshore or onshore, would be visible."

When defining a visual study area (VSA) it is important to consider the theoretical maximum distance from which a project could potentially be viewed. Theoretical visibility is largely derived from two limiting factors: the curvature of the earth and the ability of an individual to resolve features viewed from significant distances. Theoretical visibility only considers a defined set of known physical constants and does not consider other visibility limitations such as weather/atmospheric conditions. Based on the National Renewable Energy Laboratory (NREL) reference model, near-future WTGs are likely to approach or exceed heights of 900 feet (when the WTG blade tip is in the full upright position). When viewed from typical beach elevations (0-6 feet above mean sea level [AMSL]), an object 900 feet tall would be fully screened by curvature of the earth, at approximately 47 miles offshore.

However, the ability of the human eyes to resolve an object at this distance is diminished even under the most ideal viewing conditions. Considering the widest portion of a typical WTG tower, and assuming a maximum angular resolution of the human eye of 28 arc seconds (0.008 degrees), the WTG tower could not be resolved by an individual with 20/20 vision beyond approximately 39 miles. However, at this distance, curvature of the earth would completely screen the WTG tower and only a portion of the WTG blades would theoretically be visible, thus further decreasing visible distance when considering resolution of the human eye. Considering all factors influencing potential project visibility and the possibility for elevated views from high rise buildings, a VSA of 40 miles is considered appropriate (if not conservative) for the purposes of the VIA. The VSA associated with the Atlantic Shores' Lease Area is illustrated in Figure 2.1-1.

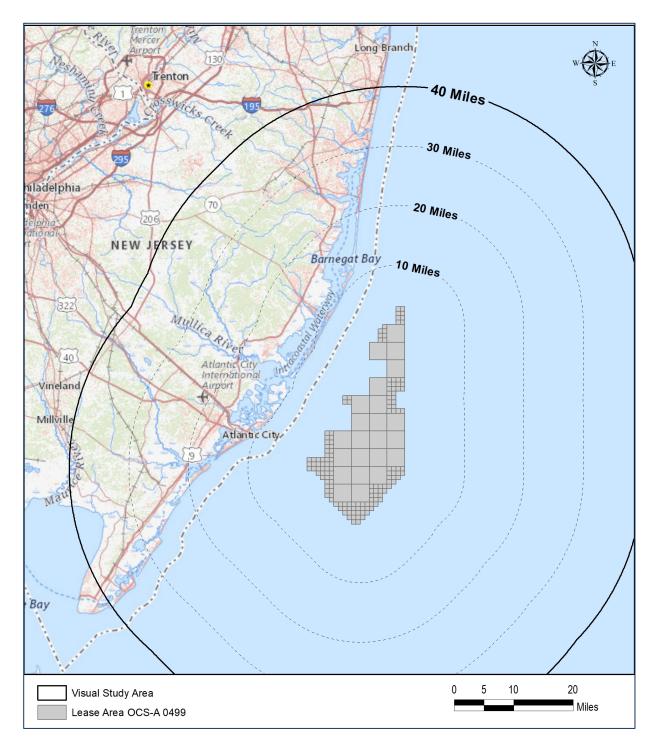


Figure 2.1-1 –Visual Study Area

While theoretical limits of visibility are appropriate when defining the VSA, it is important to consider the environmental variables that limit visibility even on the clearest of days. Studies completed on offshore turbines in Europe concluded the following (Sullivan et. al. 2013):

- 1. WTGs were considered the major focus of attention within 10 miles.
- 2. WTGs were noticeable to casual observers at distances of 18 miles and visible with extended or concentrated viewing at distances beyond 25 miles.
- 3. Turbine blade movement was visible at distances up to 24 miles.
- 4. Aviation obstruction avoidance lighting was visible at distances greater than 24 miles.

While the largest WTGs considered in the study referenced above were substantially shorter than current models (approximately 500 feet tall with the blade tip in the upright position), it is likely that atmospheric haze was largely responsible for the diminishment of the visibility of the WTGs. This phenomenon will have the same effect, even with increasing WTG dimensions. Image 2.1-2 illustrates the constructed Block Island Wind Farm viewed under clear conditions at a distance of 23.8 miles. As this image illustrates, even when photographed with a large telephoto lens (500 millimeters) the WTGs present limited contrast due to the diminishment of scale and color contrast over distance and the presence of atmospheric haze. When asked their opinion of the turbines from this location, viewers had to be directed and concentrate their focus to see the turbines (EDR, 2016).



Figure 2.1-2 – Telephoto view (500 mm) of the Block Island Wind Farm from 23.8 miles distant.

2.2 Definition of the Zone of Visual Influence

The preliminary viewshed analysis completed for the Project suggests that approximately 13.6% of the landward VSA could potentially have some degree of Project visibility. However, the results also suggest that this visibility does not extend significantly inland due to screening provided by landform, vegetation, and structures. These factors, coupled with the effect of curvature of the earth, typically reduce or eliminate views from inland locations. To gain a better understanding of where visibility may occur within the VSA, a final viewshed analysis will be performed using highresolution lidar data. Lidar data is collected by aircraft which emit laser light pulses while flying over a region. When this light strikes an object, the signal is returned to a receiving mechanism on the aircraft. Both the time and strength of the returned light provides an indication of the type of material and its vertical distance relative to the aircraft. The resulting lidar datasets consist of billions of points, which provide an extremely detailed elevation dataset for the surface of the earth, including bare ground, buildings, and vegetation. To utilize this data for visibility predictions, Geographic Information Systems (GIS) software is used to convert the lidar point cloud information into a digital surface model (DSM) of the earth, which serves as the base for the viewshed mapping. The DSM is processed to eliminate features on the surface that may falsely indicate screening features such as bridges, transmission lines, and some thin or sparse hedgerows (often found along roads). To evaluate potential visibility, the WTG positions and heights are placed in the viewshed model. The GIS analysis then analyzes every cell in the DSM grid within the VSA to determine if a direct line of sight to proposed WTGs within the Lease Area (WTG blade tips in the upright position) is available. Based on the availability of a direct line of sight, each grid cell is coded as visible or not visible. This analysis is completed for each proposed WTG location, so each grid cell is also assigned a number indicating the number of turbines potentially visible at that location. The analysis results in the identification of all areas of potential visibility throughout the entire VSA. These areas of visibility are henceforth referred to as the zone of visual influence (ZVI) and will represent the areas of analysis considered in the VIA.

2.3 Definition of Landscape Similarity Zones and User Groups

EDR will use aspects of the U.S. Army Corps of Engineers (USACE) Visual Resource Assessment Protocol (VRAP) (Smardon, et. al. 1988) to establish landscape similarity zones (LSZs) within the ZVI. Defining distinct landscape types provides a useful framework for the analysis of a project's potential visual effects. LSZs will be defined based on the similarity of various landscape characteristics including landform, vegetation, water, and land use patterns. The initial desktop exercise will reference aerial photographs, land use/ zoning data, and landcover data in order to delineate the initial LSZ boundaries. Field review of these preliminary desktop delineations will verify the location, character, and boundaries of each LSZ (See Section 2.9). This field review will be completed by the individuals involved in the initial desktop delineations of the LSZs. This exercise not only provides for a verification of the landscape types within the VSA, but also allows for the determination of potentially sensitive viewing locations, view durations, and user types. The VIA will describe the types of views available, along with the types of viewers/users present in each LSZ.

Users of this regional landscape generally fall into one of five categories including, recreational users, tourists, residents [including disadvantaged residents as defined by Environmental Justice Areas (EJA)], travelers/commuters, and the commercial fishing community. Each of these user types may have variable sensitivity to visual change in the landscape or seascape and these will be described and related to specific LSZs for additional context.

2.4 Identification of Publicly Accessible and Designated Visually Sensitive Resources

Visually sensitive resources (VSRs) are an important consideration when evaluating potential visual impacts of a project. These resources generally include specifically designated scenic resources such as State/National Scenic Byways, or scenic overlooks, but also include state and nationally designated historic, environmental, and/or recreational resources. Examples of VSRs that could occur within a VSA are listed in Table 2.5-1.

Table 2.5-1. Visually Sensitive Resource Categories

Traditional Cultural Properties	State Beaches
National/State Historic Districts	Highways Designated or Eligible as Scenic
National/State Historic Sites	National Historic Landmarks
National Natural Landmarks	National Recreation Trails
State-Designated Scenic Areas	State Trails
Scenic Area of Statewide or Local Significance	State Bike Routes
State-Designated Scenic Overlooks	State Fishing and Boating Access
National Wildlife Refuges	State/National Scenic Byways
State Wildlife Management Areas	Lighthouses (not National or State Historic Listed)
State/National Parks	Public Beaches/National Seashores
State Nature and Historic Preserve Areas	Ferry Routes (Occur across multiple states)
State/National Forests	Seaports (Commercial Maritime Facilities)
Environmental Justice Areas	State, Interstate, and US Highways

EDR will consult publicly available GIS resources to determine the location and extend of the VSRs within the VSA and then conduct an analysis to determine which of those resources also occur within the ZVI (i.e., which resources have potential Project visibility). The results of this analysis will support consultations with agencies and stakeholders and inform subsequent field photography and the selection of visual simulation locations (see Section 2.8).

2.5 Viewshed Analysis

In addition to the establishment of the ZVI based on maximum blade tip height, the viewshed analysis will also be used to determine the likely extent of WTG visibility. To complete this, the viewshed analysis will be run at multiple heights to determine how much of the proposed WTGs may be visible within the ZVI. Along with the maximum blade tip height, the heights used for this analysis will include 1) the height of the Federal Aviation Administration (FAA) obstruction warning lights mounted on top of the WTG nacelles, 2) the height of FAA warning lights mounted on the WTG towers, and 3) the height of Coast Guard navigation warning lights mounted on the WTG platform. This information will be used to determine the degree of WTG visibility from onshore VSRs under both daytime and nighttime conditions.

2.6 Other Factors Influencing Project Visibility

As mentioned previously in Section 2.1, weather and atmospheric conditions have a significant influence on the visibility of offshore WTGs. To gain a better understanding of the visibility-influencing factors associated with atmospheric conditions, an analysis of historical weather conditions will be undertaken to determine the frequency and duration of conditions under which Project visibility would or would not be possible. This analysis will be based on information from the National Climatic Data Center (NCDC), which regularly reports visibility conditions out to a distance of 10 miles. This predictive model effectively extends visibility predictions out to 30 miles. The results of this analysis will provide

an estimation of how frequently the Lease Area (or portions of the Lease Area) will be obscured from view due to weather conditions during daytime and nighttime periods within a typical year.

2.7 Identification of Key Observation Points

Key observation points (KOPs) are locations that will eventually serve as representative views for the production of visual simulations (see Section 2.9). When selecting KOPs, it is important to insure they provide representative views of the Project and the character of the LSZs within the ZVI. The primary selection criteria include the following:

- 1. Project visibility is indicated by the viewshed analysis (i.e., the KOP occurs within the ZVI).
- 2. The KOP occurs adjacent to a VSR of National significance.
- 3. The KOP occurs at or adjacent to a VSR of State significance.
- 4. The KOPs represent a variety of LSZs and viewer types occurring within the ZVI.
- 5. The KOPs represent popular/important tourism destinations and residential areas (including disadvantaged neighborhoods).
- 6. The KOPs represent variable lighting/sky conditions and distances (including inland locations), directions, and viewing angles of the WTGs.
- 7. The KOPs represent a variety of wind directions (thus turbine directions) including the most prevalent condition present during the field review and a condition in which the turbines are facing the viewer position.
- 8. The KOPs reflect input from stakeholders and agencies.

This VIA Protocol serves as the initiation of consultation with agencies and stakeholders regarding the selection of KOPs, and therefore does not yet include input from the various consulting parties. However, to initiate this process, representative examples of candidate KOPs are listed in Appendix A. These KOP examples were selected based on the eight aforementioned criteria, along with a variety of GIS desktop analyses that were used to identify VSRs and areas of high public use. It is anticipated that a more complete list of KOPs will be developed once the ZVI has been defined and through consultation with the agencies and stakeholders.

2.8 Field Photography and Survey

Field photography and survey will involve EDR visual assessment staff travelling to the Project VSA for the purposes of capturing photographs from each of the selected KOPs, verifying the results of the viewshed analysis, and to documenting typical views from representative LSZs within the ZVI.

Photography will involve determining the most open and unobstructed view of the ocean and Lease Area from each selected KOP. At this location, a tripod will be set up and a compass bearing recorded to determine the general direction of the proposed WTGs. A survey position of the tripod will be recorded using a geographic positioning system (GPS) with differential correction. Once the survey position of the tripod has been collected, the position will be uploaded and corrected based on local survey correction beacons. GIS is then used to determine precise bearings to the outside limits and center of the WTG array. These bearings will be loaded into the survey equipment, and stakes will be placed within the field of view approximately 100 to 500 feet from the tripod position. The position of these stakes will be surveyed, and a survey-grade laser range finder will be mounted to the tripod in order to determine the exact distance of the stakes and their bearing from the tripod. Next, a camera will be mounted to the tripod and the focus, exposure,

and white balance will be adjusted to match the conditions as observed. The camera will be a 30 megapixel (6720x4480) full-frame digital single lens reflex camera with a 36 mm by 24 mm sensor, equipped with an unfiltered 50 mm prime lens with a minimum aperture of f/1.8. Once the camera is properly set up, a series of photographs will be taken to cover a 180-degree horizontal field of view and 65-degree vertical field of view. In order to minimize distortion between frames the camera will be offset on the tripod to rotate around the nodal point of the lens. Once the panorama has been recorded, the camera will again be centered on the Project and one-minute of video footage will be recorded in 4K to capture scene dynamics such as wave movement and sound.

Where possible, field photography will include a field of view large enough to include potential future offshore development in order to provide adequate coverage for the eventual consideration of cumulative visual impacts.

Photography will be carefully planned to document optimal viewing conditions, as well as a variety of lighting conditions (including sunrise, morning, noon, afternoon, sunset and night) from the various selected KOPs.

2.9 Visual Simulations

Visual simulations are essentially the photographs obtained from each KOP with the Project superimposed and integrated so that the resulting image accurately illustrates the view that will be available following Project construction. For the Atlantic Shores Offshore Wind Project, three types of simulations will be provided, as indicated in Table 2.10-1.

Table 2.9-1. Types of Visual Simulations

Simulation Type	Field of View Represented	Purpose
Single Frame 50mm	39.6 degrees horizontal by 27 degrees vertical	50 mm single frame simulations are used to replicate a "normal lens" which maintains spatial relationships associated with near and distant objects, thus accurately representing the relative scale of a project. The simulations are generally compact in size (11x17 inches) and can be easily printed for incorporation into a report or viewed digitally on a high-resolution screen.
Panorama Simulations	124 degrees horizontal by 55 degrees vertical	Panorama simulation covering 124x55 degrees are generally representative of the human full field of view. These simulations need to be printed in large format and are difficult to present in a written report or a standard computer monitor
Video Time-Lapse Simulations	39 degrees horizontal by 21 degrees vertical	Time lapse video simulations illustrate blade motion, movement of landscape features, and lighting changes over an extending period. Typically, the time period extends from first light to nighttime in order to illustrate lighting conditions throughout the day and turbine visibility at nighttime. Videos require viewing on a high-resolution screen.

The simulations are created by reconstructing the physical environment in a three-dimensional (3D) computer generated environment (model). The model will include an exact replica of the camera position, direction of view, and camera specifications. To verify the accuracy of the camera placement and direction of view, the field-recorded survey information will also be placed into the model along with current lidar data. In some cases where lidar data is not sufficient for the alignment, an unmanned aerial system (UAS or drone) will be used in the field to provide expanded survey capability and alignment beacons. Once the view and 3D camera are precisely aligned, a to-scale 3D version of the proposed offshore facilities (WTGs and OSSs) will be added to the model. The model will also include an environmental system which will replicate the atmospheric and lighting conditions present at the time of the photograph based on the date, time of day, and recorded atmospheric conditions. This will ensure proper lighting and shading of the WTGs and OSSs. When adding the 3D model of the offshore facilities to the photograph, curvature of the earth and refraction are accounted for in each view based on the elevation of the camera, distance to the WTGs/OSSs, and conditions recorded in the field. The resulting illustration produced using this methodology is an accurate representation of the proposed operational wind farm.

The VIA will include simulations illustrating variable atmospheric/weather conditions and times of day to illustrate the appearance of the offshore facilities when viewed under these conditions. It is not anticipated that every KOP will include multiple times of day and conditions, rather a subset of representative simulations will be selected after the initial simulations have been completed in order to provide regional examples of variable conditions.

As mentioned in Section 2.8, the EDR intends to capture sufficient photographic and survey data to include reasonably foreseeable future development with the Atlantic Shores and other lease areas within a 40 miles of the Project. Upon completion of the VIA and receipt of the completeness determination, it is anticipated that BOEM will request the development of cumulative visual assessment graphics and visual simulations. These simulations and graphic representations will adequately address stationary views in which multiple facilities appear within a single field of view, views in which the cumulative visibility extends beyond the primary field of view, and sequential views as experienced by viewers moving through the site. Pending further consultation with BOEM, it is also anticipated that the cumulative visual simulations will illustrate the proposed action with and without foreseeable future development. Additionally, the foreseeable future development will be illustrated without the proposed action for comparative purposes.

2.10 Visual Impact Evaluation

The visual impact associated with development of the Lease Area will be evaluated using a variation of the VIA procedure outlined in the USACE VRAP (Smardon et. al., 1988). The VIA uses representative KOPs within each of the affected LSZs in the VSA to determine a Project's visual impact. To ensure that the scoring of one individual or one viewpoint does not skew the results, the VRAP requires that multiple rating panel members (minimum of two) be involved, and that multiple KOPs be evaluated. This evaluation is based on a comparison of existing photos and visual simulations from each KOP to quantify the effect of a project using forms and a scoring system provided in the VRAP Manual (Smardon et al., 1988) as modified by EDR.

For the Atlantic Shores Project, a panel of four qualified landscape architects and planners will conduct a quantitative VIA rating procedure which will determine the existing scenic quality of the view from each KOP viewing location and the scenic quality of the same view with the Project in place. The panel members will be provided with digital files of existing conditions photos and simulations from each KOP, along with a viewpoint information page that provides a viewpoint location map, contextual photographs illustrating the full field of view, a summary of VSRs present. The distance and direction of the nearest WTG from each KOP, the LSZ, and viewer groups represented by each viewpoint will also be provided to the panel, along with the rating forms to be used for the visual impact assessment (a simplified version of Form 6 from the USACE VRAP). In addition, the rating panel members will be directed to examine contextual maps of the KOP location, review panorama photographs, and complete a Google Earth tour of the KOP and surrounding landscape as one would approach the individual KOP locations. The rating panel members will then evaluate the before and after views from each KOP and will assign each view quantitative aesthetic quality ratings. The ratings will be based on the visual quality of each of six landscape components (landform, water resources, vegetation, land use, user activity, and special considerations). As mentioned above, VRAP Form 6 (Viewpoint Assessment) will be modified to: 1) create separate forms for the evaluation of the existing view and the view with the proposed Project in place, 2) provide clarity in evaluating Project compatibility, scale contrast, and spatial dominance, and 3) delete items that do not contribute to the assignment of a numerical VIA score to the viewpoint. A standard three-point rating system used in the VRAP does not always allow for sufficient differentiation among ratings for either existing visual quality or the magnitude of visual impact. Consequently, the panel members will be allowed to rate the images on an expanded scale of 1 to 9. These scores will then be converted back to the scale used on the original Form 6 to remain consistent with the VRAP scoring and threshold values.

The following landscape/seascape factors will be considered in the rating, and where applicable, their presence in the view or influence on the view will be expressed in the visual impact rating.

- Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be
 categorized by their spatial arrangement. Basic landscape components include vegetation, landform,
 water, and sky. Some compositions, especially those that are distinctly focal, enclosed, detailed, or
 feature-oriented, are more vulnerable to modifications than panoramic, canopied, or ephemeral
 landscapes. These factors are included in the VRAP methodology and will be rated quantitatively for
 the existing and proposed view.
- Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character of a landscape/seascape, as well as a project. Form refers to the shape of

an object that appears unified, often defined by edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact. Line, form, color, and texture are directly applied to the landscape and seascape composition ratings described above. These factors will be assessed both quantitatively and qualitatively on the rating forms.

- Focal Point: Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape. Focal points in the existing view and how those may be affected by the Project will be described on the rating form.
- Order: Natural landscapes/seascapes have an underlying order determined by natural processes.
 Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/development.
 Elements in the landscape that are inconsistent with this natural order may detract from scenic quality.
 When a new project is introduced to the landscape or seascape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment. The Project's effect on order will be addressed in the rating panel comments.
- Scenic or Recreational Value: Designation as a scenic or recreational resource is an indication that
 there is broad public consensus on the value of that particular resource. The characteristics of the
 resource that contribute to its scenic or recreational value provide guidance in evaluating a project's
 visual impact on that resource. Formally designated scenic or recreational designations will be
 identified for the panel members. and the panel will be asked to comment on the projects potential
 effect or scenic or recreational resources.
- Duration of View: Some views are seen as quick glimpses while driving along a roadway or hiking a
 trail, while others are seen for a more prolonged period of time. Longer duration views of a project,
 especially from significant aesthetic resources, have the greatest potential for visual impact.
 Background information for, each KOP will contain a description of the user experience in terms of
 regional visibility and the availability of ocean views from each location. The rating panel will be asked
 to comment on the duration and frequency of the view presented for each KOP.
- Atmospheric Conditions: Clouds, precipitation, haze, and other ambient air-related conditions which
 affect the visibility of an object or objects. These conditions can greatly impact the visibility and contrast
 of landscape/seascape and project components and the design elements of form, line, color, texture,
 and scale. Rating panel members will be asked to comment on the conditions presented in each view,

as well as how Project visibility may be less or greater under conditions different from those illustrated in the selected visual simulation.

• Lighting Direction: Backlighting refers to a viewing situation in which sunlight is coming toward the observer from behind a feature or elements in a scene. Front lighting refers to a situation where the light source is coming from behind the observer and falling directly upon the area being viewed. Side lighting refers to a viewing situation in which sunlight is coming from the side of the observer to a feature or elements in a scene. Lighting direction can have a significant effect on the visibility and contrast of landscape/seascape and project elements. Rating panel members will be asked to characterize each view as illustrating one of three possible lighting conditions (front lit, side lit, and backlit) and comment on potential conditions that may increase or decrease Project visibility.

Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale within the existing landscape/seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors. Project scale contrast will be assessed through quantitative scores built into the VRAP procedure.

- Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint. The Project's spatial dominance will be assessed through quantitative scores built into the VRAP procedure.
- Visual Clutter: Numerous unrelated built elements occurring within a view can create visual clutter, which generally has an adverse effect on scenic quality. If present, visual clutter, both existing and as a result of the proposed Project will be assessed qualitatively in the rating panel comments.
- Movement: Moving project components can attract viewer attention. Rating panel members will be
 asked to comment on existing elements in the view that may draw viewer attention as well as a
 potential increase in noticeability of the Project resulting from the rotation of the turbine blades.

The VRAP procedure would normally require adherence to the Management Classification System (MCS) to establish a Visual impact threshold score for each LSZ within the VSA. However, given the nature of offshore wind projects, which occur outside of the LSZs where the Project is being viewed, and to avoid elevating this threshold by considering the sensitivity of the LSZ as a whole, the methodology has been adapted to apply this management classification to the individual KOPs. Once the panel has completed the evaluation, their individual ratings will be averaged to generate a composite rating for each viewpoint for both the existing and proposed conditions photographs. Based on the average scores of the existing and proposed views, each KOP will be assigned a management classification that defines its aesthetic quality and capacity to absorb physical alterations to the seascape. These classifications are defined in Table 2.4-2.

Table 2.10-1. Scenic Quality Classifications

Preservation Class	These views are considered to be unique and to have the most distinct visual quality in the region. They are highly valued and are often protected by federal and state policies and laws. These areas may include significant natural areas, portions of wild and scenic rivers, historic sites and districts, and similar situations where changes to existing visual resources are restricted. While limited project activity is not precluded, it should not be readily evident (Score of 17 or more).
Retention Class	These views are regionally recognized as having distinct visual quality but may not be institutionally protected. Project activity may be evident but should not attract attention (Score of 14 to 16).
Partial Retention Class	These views are locally valued for above average visual quality but are rarely protected by institutional policies. Project activity may be evident and begin to attract attention. Structures, operations, and use activities associated with the project should remain subordinate to the existing visual resources (Score of 11 to 13).
Modification Class	These views are not noted for their distinct qualities and are often considered to be of average visual quality. Project activity may attract attention and dominate the existing visual resources. Structures, operations, and use activities may display characteristics of form, line, color, texture, scale, and composition that differ from those of the existing visual resources. However, the project should exhibit good design and visual compatibility with its surroundings (Score of 9 to 10).
Rehabilitation Class	These views are noted for their minimal visual quality and are often considered blighted areas. Project activity in these areas should improve the existing undesirable visual resources. Structures, operations, and use activities should exhibit good design and display characteristics of form, line, color, texture, scale, and composition that contribute to making the area compatible with the visual character of adjacent higher quality landscapes (Score of less than 8).

To evaluate the overall visual impact from each KOP, the composite before and after scores for view will be compared to determine the average difference between the ratings of the existing and proposed views. For each KOP, the impact ratings will be compared to the thresholds established for that view to determine whether impacts exceed the allowable thresholds for the existing conditions classification. According to the VRAP methodology, the threshold for acceptable impact for each of these classifications are as follows:

- Preservation Class 0
- Retention Class No lower than minus 2
- Partial Retention Class No lower than minus 5
- Modification Class No lower than minus 6
- Rehabilitation Class Greater than 0 (i.e., project should only improve visual quality)

To supplement and validate VRAP results, rating panel members will be asked to determine the Visibility Threshold Level (VTL) applicable to each of the KOPs and the broader regional landscape they represent. *Offshore Wind Turbine Visibility and Visual Impact Threshold Distances* (Sullivan et.al., 2013) lists six VTLs used to rate the visual prominence of several operational offshore wind farms in Europe. These visibility ratings and the associated VRAP scale are presented below in Table 2.10-2.

Table 2.10-2 Visibility Threshold Level Rating Scale

Visibility Rating	Description
Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.
Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.
Visibility level 3 . Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/seascape elements.
Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.
Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to strong contrasts in form, line, color, and texture, bright light sources such as lighting and reflections and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements.
Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by turning one's head more than 45 degrees from a direct view of the object. The object/phenomenon is the major focus of visual attention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, color, and texture, bright light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.

Following completion of the evaluation, the VIA scores and the completed evaluation forms will be reviewed to determine the basis for the documented visual impact. In addition, a detailed description of the evaluation will be included for each KOP, including a summary of the panel members comments and scoring related to spatial dominance, scale contrast, compatibility with the landscape/seascape, and VTL. The inclusion of these elements will provide an evaluation of the potential magnitude of visual change resulting from the Project at each KOP. In order to evaluate variable visibility and atmospheric conditions, evaluators will be asked to described specific conditions under which the Project may result in increased or reduced visual impacts (i.e. sunrise, sunset, blade movement, overcast, foggy conditions, etc.). Individual panel members scores will also be discussed to identify and describe any panel variability or consistency in the perceived type or level of visual impact. Panel variability will also be discussed

collectively across all KOPs in order to identify any consistent outliers in the analysis and the justification for the variability.

The VRAP evaluation methodology is considered advantageous because it: 1) provides an assessment of the sensitivity of identified LSZs and viewer groups to visual change, 2) documents the basis for conclusions regarding visual impact in an objective, quantifiable manner, and 3) allows for independent review and replication of the evaluation. The modifications to the methodology made by EDR allow a large number of viewpoints to be evaluated in a reasonable amount of time without "burn-out" of the rating panel.

The completed visual impact forms will be included in the VIA along with graphical representations of the results, such as a summary of the spatial dominance, scale contrast, and project compatibility as compared to viewer sensitivity, distance from the Project, and other factors affecting Project visibility and landscape/seascape sensitivity to visual change.

2.11 Procedural Intent

The visual impact assessment procedure outlined in this report meets or exceeds standard methodologies and industry practices for determining the impacts to visually sensitive resources resulting from the construction and operation of offshore wind farms (see Literature Cited/References section). The intent of this document is to solicit input from the regulatory agencies and consulting parties on the procedures outlined and preliminary recommendations for KOPs for consideration in the VIA. Therefore, it is anticipated that this document will be revised, as necessary, to reflect the input provided.

3.0 Literature Cited/References

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ATTACHMENT B

VISIBILITY FROM MUNICIPALITIES WITHIN THE VISUAL STUDY AREA

			Area Within VSA (sq	Percent Area within	Area Within ZVI (sq	
County	Municipality	Total Area (sq miles)	miles)	VSA(%)	miles)	Percent Area within ZVI(%)
Atlantic County		610.6	604.7	99.0	101.1	16.6
	Absecon	7.2	7.2	100.0	2.9	40.6
	Atlantic City	15.9	15.9	100.0	9.5	60.0
	Brigantine	10.7	10.7	100.0	7.3	68.6
	Buena Borough	7.6	3.0	39.5	none in ZVI	none in ZVI
	Buena Vista Township	41.6	40.2	96.7	none in ZVI	none in ZVI
	Corbin City	9.0	9.0	100.0	5.2	58.0
	Egg Harbor City	11.4	11.4	100.0	0.5	4.0
	Egg Harbor Township	75.5	75.5	100.0	13.0	17.2
	Estell Manor	55.2 8.5	55.2 8.5	100.0 100.0	6.7 none in ZVI	12.2 none in ZVI
	Folsom Borough Galloway Township	111.3	111.3	100.0	47.1	42.3
	Hamilton Township	112.9	112.9	100.0	0.4	0.3
	Hammonton	41.3	41.3	100.0	<0.1	<0.1
	Linwood	4.4	4.4	100.0	1.8	40.2
	Longport Borough	0.6	0.6	100.0	0.2	26.2
	Margate City	1.6	1.6	100.0	0.1	5.9
	Mullica Township	56.8	56.8	100.0	0.1	0.1
	Northfield	3.6	3.6	100.0	0.5	13.1
	Pleasantville	7.3	7.3	100.0	3.0	41.8
	Port Republic	8.6	8.6	100.0	1.2	13.7
	Somers Point	5.0	5.0	100.0	1.0	20.8
	Ventnor City	2.5	2.5	100.0	0.6	22.5
	Weymouth Township	12.2	12.2	100.0	<0.1	<0.1
Burlington County		820.3	414.4	50.5	11.1	1.3
	Bass River Township	78.3	78.3	100.0	6.8	8.7
	New Hanover Township	22.6	10.4	45.7	none in ZVI	none in ZVI
	Pemberton Township	62.8	41.5	66.2	none in ZVI	none in ZVI
	Shamong Township	45.0	31.6	70.1	none in ZVI	none in ZVI
	Southampton Township	44.4	9.4	21.2	none in ZVI	none in ZVI
	Tabernacle Township	49.6	44.0	88.7	<0.1	<0.1
	Washington Township	104.8	104.8	100.0	3.9	3.7
	Woodland Township	94.4	94.4	100.0	0.3	0.3
Camden County		227.6	17.5	7.7	none in ZVI	none in ZVI
	Waterford Township	36.2	11.4	31.4	none in ZVI	none in ZVI
	Winslow Township	58.2	6.1	10.5	none in ZVI	none in ZVI
Cape May County		286.1	286.1	100.0	38.6	13.5
	Avalon Borough	5.0	5.0	100.0	0.4	8.6
	Cape May	2.9	2.9	100.0	<0.1	<0.1
	Cape May Point Borough	0.3	0.3	100.0	none in ZVI	none in ZVI
	Dennis Township	63.8	63.8	100.0	5.3	8.3
	Lower Township	31.0	31.0	100.0	0.1	0.3
	Middle Township	82.7	82.7	100.0	12.7	15.3
	North Wildwood	2.5	2.5	100.0	0.4	15.8
	Ocean City	11.8	11.8	100.0	4.2	35.8 17.4
	Sea Isle City Stone Harbor Borough	2.8	2.8	100.0 100.0	0.5	17.4
	Upper Township	68.4	68.4	100.0	14.2	20.8
	West Cape May Borough	1.2	1.2	100.0	none in ZVI	none in ZVI
	West Vildwood Borough	0.4	0.4	100.0	<0.1	<0.1
	Wildwood	1.7	1.7	100.0	0.2	10.5
	Wildwood Crest Borough	1.5	1.5	100.0	0.2	15.6
	Woodbine Borough	8.0	8.0	100.0	<0.1	0.3
Cumberland County		501.8	113.1	22.5	<0.1	<0.1
	Commercial Township	34.1	1.4	4.0	none in ZVI	none in ZVI
	Maurice River Township	95.0	86.0	90.6	<0.1	<0.1
	Millville	44.5	2.9	6.6	none in ZVI	none in ZVI
	Vineland	69.0	22.8	33.0	none in ZVI	none in ZVI
Gloucester County		336.2	0.6	0.2	none in ZVI	none in ZVI
_	Monroe Township	46.9	0.6	1.4	none in ZVI	none in ZVI
Monmouth County		485.7	118.9	24.5	none in ZVI	none in ZVI
	Allenhurst Borough	0.3	0.3	100.0	none in ZVI	none in ZVI
	Asbury Park	1.5	1.5	100.0	none in ZVI	none in ZVI
	Avon-by-the-Sea Borough	0.5	0.5	100.0	none in ZVI	none in ZVI
	Belmar Borough	1.5	1.5	100.0	none in ZVI	none in ZVI
	Bradley Beach Borough	0.6	0.6	100.0	none in ZVI	none in ZVI
	Brielle Borough	2.3	2.3	100.0	none in ZVI	none in ZVI
	Deal Borough	1.2	0.8	62.5	none in ZVI	none in ZVI
	Farmingdale Borough	0.5	0.5	100.0	none in ZVI	none in ZVI
	Freehold Township	38.9	5.9	15.3	none in ZVI	none in ZVI
	Howell Township	61.1	48.7	79.7	none in ZVI	none in ZVI
	· ·		0.4	100.0	none in ZVI	none in ZVI
	Interlaken Borough	0.4		II		
	Interlaken Borough Lake Como Borough	0.3	0.3	100.0	none in ZVI	none in ZVI
	Interlaken Borough Lake Como Borough Loch Arbour Village	0.3 0.1	0.1	100.0	none in ZVI	none in ZVI
	Interlaken Borough Lake Como Borough Loch Arbour Village Manasquan Borough	0.3 0.1 1.6	0.1 1.6	100.0 100.0	none in ZVI none in ZVI	none in ZVI none in ZVI
	Interlaken Borough Lake Como Borough Loch Arbour Village Manasquan Borough Neptune City Borough	0.3 0.1 1.6 0.9	0.1 1.6 0.9	100.0 100.0 100.0	none in ZVI none in ZVI none in ZVI	none in ZVI none in ZVI none in ZVI
	Interlaken Borough Lake Como Borough Loch Arbour Village Manasquan Borough Neptune City Borough Neptune Township	0.3 0.1 1.6 0.9 8.8	0.1 1.6 0.9 8.8	100.0 100.0 100.0 100.0	none in ZVI none in ZVI none in ZVI none in ZVI	none in ZVI none in ZVI none in ZVI none in ZVI
	Interlaken Borough Lake Como Borough Loch Arbour Village Manasquan Borough Neptune City Borough	0.3 0.1 1.6 0.9	0.1 1.6 0.9	100.0 100.0 100.0	none in ZVI none in ZVI none in ZVI	none in ZVI none in ZVI none in ZVI



County	Municipality	Total Area (sq miles)	Area Within VSA (sq miles)	Percent Area within VSA(%)	Area Within ZVI (sq miles)	Percent Area within ZVI(%)
	Spring Lake Borough	1.5	1.5	100.0	none in ZVI	none in ZVI
	Spring Lake Heights Borough	1.3	1.3	100.0	none in ZVI	none in ZVI
	Tinton Falls Borough	15.6	4.4	28.2	none in ZVI	none in ZVI
	Wall Township	31.8	31.1	98.0	none in ZVI	none in ZVI
Ocean County		757.9	740.9	97.8	132.8	17.5
	Barnegat Light Borough	1.3	1.3	100.0	0.3	21.8
	Barnegat Township	40.3	40.3	100.0	8.7	21.7
	Bay Head Borough	0.7	0.7	100.0	<0.1	1.9
	Beach Haven Borough	2.3	2.3	100.0	1.1	47.4
	Beachwood Borough	2.8	2.8	100.0	none in ZVI	none in ZVI
	Berkeley Township	54.1	54.1	100.0	10.4	19.1
	Brick Township	32.4	32.4	100.0	0.5	1.7
	Eagleswood Township	18.9	18.9	100.0	8.4	44.5
	Harvey Cedars Borough	1.3	1.3	100.0	0.2	16.9
	Island Heights Borough	0.9	0.9	100.0	none in ZVI	none in ZVI
	Jackson Township	100.6	92.1	91.5	none in ZVI	none in ZVI
	Lacey Township	99.5	99.5	100.0	15.3	15.4
	Lakehurst Borough	1.0	1.0	100.0	none in ZVI	none in ZVI
	Lakewood Township	25.1	25.1	100.0	none in ZVI	none in ZVI
	Lavallette Borough	1.0	1.0	100.0	0.1	7.5
	Little Egg Harbor Township	74.0	74.0	100.0	39.0	52.8
	Long Beach Township	23.5	23.5	100.0	16.7	70.8
	Manchester Township	82.4	82.4	100.0	<0.1	0.1
	Mantoloking Borough	0.6	0.6	100.0	0.1	10.8
	Ocean Gate Borough	0.5	0.5	100.0	none in ZVI	none in ZVI
	Ocean Township	31.8	31.8	100.0	10.4	32.7
	Pine Beach Borough	0.7	0.7	100.0	none in ZVI	none in ZVI
	Plumsted Township	39.5	31.0	78.6	none in ZVI	none in ZVI
	Point Pleasant Beach Borough	1.9	1.9	100.0	<0.1	0.2
	Point Pleasant Borough	4.2	4.2	100.0	none in ZVI	none in ZVI
	Seaside Heights Borough	0.7	0.7	100.0	0.1	7.7
	Seaside Park Borough	1.1	1.1	100.0	0.2	15.3
	Ship Bottom Borough	1.0	1.0	100.0	0.1	13.4
	South Toms River Borough	1.2	1.2	100.0	none in ZVI	none in ZVI
	Stafford Township	54.7	54.7	100.0	14.8	27.0
	Surf City Borough	1.3	1.3	100.0	0.1	7.7
	Toms River Township	52.7	52.7	100.0	4.6	8.7
	Tuckerton Borough	3.7	3.7	100.0	1.6	44.8



ATTACHMENT B2

MUNICIPAL DOCUMENT REVIEW

Municipality or County	Total Area (sq miles)	Area Within ZVI (sq miles)	Percent Area within ZVI(%)	Identified Planning Document(s)	Scenic Objectives	Climate Resiliency	Project Compatibility
					Atlantic County		
Atlantic County	610.3	101.7	16.7	Atlantic County, New Jersey Master Plan (2018) Atlantic County, New Jersey Open Space and Recreation Plan (2018)	The Master Plan includes a goal to preserve and protect resources, environmentally sensitive areas, particularly watersheds, recharge areas, threatened and endangered species habitat, scenic view sheds, and other valuable features. The Pine Barrens Byway, which includes a variety of historic and scenic sites is partially located within the county. There are no specific provisions of additional planned locations to preserve and protect scenic view sheds from within the community or the ocean/beach areas. The Open Space and Recreation Plan includes goals and objectives that are to be consistent with the state-wide Master Plan open space goals. This plan provides no specific provisions of planned locations to preserve and protect scenic view sheds from within the community or the ocean/beach areas.	The Master Plan includes sustainability goals as a result of impacts from flooding and sea level rise. The first is to ensure that all development is resistant to natural effects such as storms, flooding, and drought. All future projects should be designed for future resiliency and sustainability taking into account the expected lifespan of the project and sea level rise impacts over the duration. Specific to the Barrier Island Region, the goal of this plan is to ensure that all rehabilitation and new construction occurs in a sustainable and resilient manner that accounts for sea level rise, nuisance flooding, and potential flooding from storm events. The plan includes a similar goal for the Back Bay Region. The Open Space and Recreation Plan includes the objective that all future land acquisition should prioritize protecting the population and property from natural disasters including sea level rise and increased flooding.	The Projects are compatibale with sustainability goals as it pertains to protecting communities from flooding and sea level rise resulting from climate change. There is no specific mention of the preservation of outward views from within communities, nor ocean/beach views. The overarching goals may be minimally impacted by the
Absecon, City of	7.2	2.9	40.6	2016 Reexamination Report (2017)	Objectives or problems identified from previous plans and reports that relate to scenic or visual quality include the need to develop and implement programs and regulatory controls to protect scenic resources. The residential structures along the Shore Road Corridor and adjacent streets are specifically referenced. Efforts taken since 2005 to address protect scenic resources that are identified include a renovation to Howlett Hall. No recommendations for future goals or objectives are made for protection of scenic resources. However, the plan introduces recommendations for historic preservation, which include streetscape improvements and additional historical signage to promote local history and culture, and zoning measures to preserve the architectural character of the Shore Road Corridor. Provisions pertaining the visual quality in this report mostly address aesthetic standards, as expressed through streetscape and architectural standards. There is no specific mention of the preservation of outward views from within communities, nor ocean/beach views.	Includes establishment of a Green Team Advisory Committee to encourage sustainability and sustainable development and to develop policies and practices to fulfill the principles of protecting visual and scenic quality.	The Projects are compatibale with sustainability goals as it pertains to protecting communities from sea level rise resulting from climate change. The plan identifies aesthetic goals that pertain to streetscape and architectural standards. These goals may be minimally
Atlantic City	15.9	9.5	60	Atlantic City Master Plan (2008) Master Plan Reexamination Report (2016)	The Atlantic City Master Plan (2008): Identifies several provisions pertaining to visual quality or scenic resources, the majority of which occur in the Open Space and Recreation or Conservation Elements. An objective to "Preserve and protect open space areas that have scenic views and/or important historical, cultural significance and exceptional ecological value" is identified in the Open Space and Recreation Element. This Element also identifies Gardner's Basin Maritime Park as having scenic quality in the statement "the Park offers an alternative to the resort's casino industry by allowing non-gambling visitors to seek quiet respite in the City's most scenic park by simply sitting by the water's edge, dining, taking in a boat ride or visiting the Aquarium". The Conservation Element describes the scenic value of wetlands and marshes in the statement "The flat landscape of tidal marshes provide grand scenic views of Atlantic City's spectacular urban skyline, thus enhancing the tourist experience". The land use section also identifies a development strategy that could create a "view corridor" extending from Melrose Park south to the Atlantic Ocean, and an improvement to the fishing pier located on West End Avenue that could enhance "beautiful views over the preserved wetlands" from this location. Although these resources are identified as being scenic for the outward views that they offer, no provisions are made to protect or preserve these views. Provisions pertaining the visual quality in this report mostly address aesthetic standards, as expressed through streetscape, architectural standards, and preservation of historic structures.		The Projects are compatibale with sustainability goals as it pertains to protecting communities from sea level rise resulting from climate change. The plan identifies aesthetic goals that pertain to streetscape and architectural standards. These goals may be minimally impacted by the Projects.
Brigantine, City of	10.7	7.4	68.7	2016 Master Plan Re-examination Report (2016)	An objective identified from the previous planning documents includes an objective to "implement programs and regulatory controls designed to protect the scenic resources of the community". Previous actions taken to address this objective include zoning control include building height restrictions and setbacks. A "2016 follow-up" within this section of the report identifies public concern for access to scenic resources: "Another aspect of the planning process has been the desire expressed by local residents for scenic views and resources to be protected and accessible to all. The development of the waterfronts, in particular the back bay areas has provided limited public access to street ends and points of access to the bay visually in many locations." It also identifies that there is "an ongoing concern about visual access and scenic corridors on the Island, and there is a continuing desire to renovate some of the less desirable views" and a need to promote and preserve access to the Bay and Atlantic Ocean. A general goal "to promote a desirable visual environment through creative development techniques and good civic design and arrangements" is made created in the 2016 General Goals and Objectives Statement section. Provisions are made in subsequent sections to respond to this objective and improve the visual environment through changes to building setbacks, height restrictions, and similar measures. However, no additional measures intended to protect or enhance visual access and protecting scenic corridors are proposed.		The Projects are compatibale with sustainability goals as it pertains to protecting communities from sea level rise resulting from climate change. The plan identifies aesthetic goals that pertain to streetscape and architectural standards. These goals may be minimally impacted by the Projects.



Municipality or County	Total Area (sq miles)	Area Within ZVI (sq miles)	Percent Area within ZVI(%)	Identified Planning Document(s)	Scenic Objectives	Climate Resiliency	Project Compatibility
Egg Harbor Township	75.5	13	17.2	Egg Harbor Township Master Plan (2002) Master Plan Reexamination Report (2017)	Chapter 10, Conservation Element and the River Management plan identify a portion of the Great Egg Harbor River (GEHR) and its tributaries as a scenic resource in the following statement: "The Great Egg Harbor River and its tributaries contain an abundance of scenic landscapes – lakes, streams, pristine forest areas, and cedar / hardwood swamps. The Pinelands Comprehensive Management Plan designates the lower and middle portions of the river and its tributaries as scenic corridors of "special significance" within the Pinelands." It identifies the need to incorporate resource protection measures and proposes the creation of a River Conservation (RC) overlay zoning district and the establishment of a land use plan that protects river resources. Several possible recommendations for this zoning district are identified, including "adopt design guidelines that include recommendations for minimizing the visual impacts of development as seen from the River". The River Management Plan provides a model ordinance for what future RC overlay district could consist of. This includes land use controls, including vegetation buffer requirements, setback and building height requirements, and prohibited land uses. As of the 2017 Reexamination Report, there was no progress in implementing the proposed River Conservation (RC) zone overlay, therefore it is still a recommendation in the zoning section of this plan. No specific provisions or review process that specifically requires minimization of visual impact beyond restrictions is identified.		The Projects are compatibale with climate resiliency goals as it pertains to protecting communities from sea level rise resulting from climate change. As demonstrated in the VIA, the visual effects associated with the Projects could affect scenic resource protection efforts that have and may be put forth by the community.
Estell Manor	55.2	6.7	12.2	None identified.			
Galloway Township	111.2	47.7	42.9	Master Plan Reexamination Report (2020)	An objective identified from the previous planning documents is to preserve and protect open space areas having scenic views and/or important historical, cultural or agricultural significance. Another identified objective is to maintain continuous networks of open spaces along streams, scenic areas and critical environmental areas. The plan, however, provides no recommended changes or further initiatives in regard to these objectives that would enhance or protect visual and scenic access.	There were no objectives identified from previous planning documents in regard to mitigating or providing protection from flooding or sea level rise. The reexamination report does not include changes or new provisions to initiate these measures.	The plan does not include specific provisions in regard to climate resiliency. There is no specific mention of the preservation of outward views from within communities, nor ocean/beach views. The overarching goals may be minimally impacted by the Projects.
Linwood, City of	4.4	1.7	40.2	City of Linwood Master Plan (2002) Master Plan Reexamination Report (2018)	The City of Linwood's goals includes the provision to preserve Linwood's historic, scenic, and recreational assets. However, there is no specific mention of the preservation of outward views from within the community, nor ocean/beach views. There are no provisions in the reexamination report in regard to the preservation of outward views from within the community, nor ocean/beach views.	The Master Plan does not include specific provisions to mitigate or provide protection from flooding or sea level rise. The reexamination plan includes the recommendation to review impacts from storm events and sea level rise in order to develop measures that will enhance resiliency for new construction within the city.	
Northfield, City of	3.6	0.5	13.1	City of Northfield Master Plan Re-examination (2008)	The objectives identified from previous planning documents include those that promote a desirable visual environment through creative development techniques which respect the environmental qualities and constraints of the City of particular sites. The report identifies an objective to promote the conservation of historic sites and districts, open space, energy resources, and valuable natural resources in the City to prevent degradation of the environment through improper use of land. There are no provisions in the reexamination report in regard to the preservation of outward views from within the community, nor ocean/beach views.	The objectives identified from previous planning documents include those that secure safety from flood or other manmade disasters.	The Projects are compatibale with sustainability goals as it pertains to protecting communities from flooding and sea level rise resulting from climate change. There is no specific mention of the preservation of outward views from within communities, nor ocean/beach views. The overarching goals may be minimally impacted by the



Municipality or County	Total Area (sq miles)	Area Within ZVI (sq miles)	Percent Area within ZVI(%)	n Identified Planning Document(s)	Scenic Objectives	Climate Resiliency	Project Compatibility
Pleasantville, City of	7.3	3	41.8	Master Plan Elements (2016)	There are no provisions in the Master Plan in regard to scenic assets or the preservation of outward views from within the community, nor ocean/beach views.	The plan includes narrative that the City will need to evaluate future land use and zoning recommendations that take into account recent storms and the impact of sea level rise	The Projects are compatibale with sustainability goals as it pertains to protecting communities from flooding and sea level rise resulting from climate change. There is no specific mention of the preservation of outward views from within communities, nor ocean/beach views. The overarching goals may be minimally impacted by the Projects
Port Republic, City of	8.6	1.2	13.7	None identified.			
Somers Point, City of	5	1	20.8	Somers Point Master Plan Reexamination (2015)		The plan includes significant changes in assumptions, policies, and objectives from previous planning documents. As a result of Superstorm Sandy, the City re-evaluated its policies and objectives regarding flooding and rising sea level. Updated objectives include developing planning strategies and regulations to address flooding and environmental concerns. This lead to the addition of a land use goal that aims to limit development in the floodway and require two feet of freeboard whenever development occurs in a flood zone. The report includes an updated recommendation to maximize the city's resiliency efforts from future sea level rise and storm impacts.	with sustainability goals as it pertains to protecting communities from flooding and
Ventnor City	2.5	0.6	22.5	2016 Master Plan Reexamination (2016)		The report identifies the major changes in circumstances since the most recent Master Plan was adopted. Flooding of coastal communities due to sea level rise and the impacts of coastal storms is forecasted to increase due to climate change. Recommended changes to the Master Plan therefore include updating zoning codes to address and promote compliance with flood regulations. The report also includes that the utility and infrastructure goals should add that the siting and design of new facilities should take sea level rise, coastal flooding and erosion into account.	The Projects are compatibale with sustainability goals as it pertains to protecting communities from flooding and sea level rise resulting from climate change. There is no specific mention of the preservation of outward views from within communities, nor ocean/beach views. The overarching goals may be minimally impacted by the
					Burlington County		IProjects
Burlington County	819.7	11.1	1.3	Parks and Open Space Master Plan (2002)	An objective of this plan is to identify and preserve areas of significant scenic beauty. The objective narrative includes that "roads that provide visual or physical access to extraordinary scenic, cultural. Recreational, or natural features will be submitted to the New Jersey Department of Transportation (NJDOT) for designation in accordance with the New Jersey Scenic Byways Program." The plan also recommends that the county staff should work with outside agencies to identify, map, and develop viewsheds and areas of significant beauty. As a part of the county's goal to advance the county's cultural, character and heritage through development of the county park system, the county has plans to erect interpretative signs to promote historic viewsheds. There are no provisions in the Master Plan in regard to scenic assets or the preservation of outward views from ocean/beach views.	rise.	The plan does not include specific provisions in regard to climate resiliency. As demonstrated in the VIA, the visual effects associated with the Project could affect scenic resource protection efforts put forth by the community.
Bass River Township	78.3	6.8	8.7	None identified.			
					Cape May County		



Municipality or County	Total Area (sq miles)	Area Within ZVI (sq miles)	Percent Area within ZVI(%)	n Identified Planning Document(s)	Scenic Objectives	Climate Resiliency	Project Compatibility
Cape May County	286	39.3	13.7	Cape May County Open Space and Recreation Plan (Adopted 2005, Amended 2007) 2021 Comprehensive Plan - Editorial Draft (2021)	The Cape May County Open Space and Recreation Plan was prepared to meet the goal of preserving and protecting natural and scenic resources. There are no provisions in the reexamination report in regard to specific scenic assets or the preservation of outward views from within the community, nor ocean/beach views. There are no provisions in the comprehensive plan report in regard to specific scenic assets or the preservation of outward views from within the community, nor ocean/beach views.	provide protection from flooding or sea level rise. The Cape May County Comprehensive Plan	The Projects are compatibale with sustainability goals as it pertains to protecting communities from flooding and sea level rise resulting from climate change. There is no specific mention of the preservation of outward views from within communities, nor ocean/beach views. The overarching goals may be minimally impacted by the
Dennis Township	63.7	5.3	8.3	2010)	While the Natural Resource Inventory lists the scenic assets of the Township, there are no specific provisions for protecting or enhancing the outward views from within the community, nor beach/ocean views. The Town of Dennis Land Use Plan includes a goal to retain a scenic landscape edge along all roads to buffer and to maintain the unique scenic attributes of the Township's environment. However, the plan provides no specific policies or scenic assets to protect for outward views from within the community, nor beach/ocean views. The Township of Dennis Forestry Plan provides no specific policies or scenic assets to protect for outward views from within the community, nor beach/ocean views.	Land Use Plan contains no specific goals or objectives to mitigate flooding or sea level rise to enhance the Township's climate resiliency. The Township of Dennis Forestry Plan includes no specific	The plans do not include specific provisions in regard to climate resiliency. There is no specific mention of the preservation of outward views from within communities, nor ocean/beach views. The overarching goals may be minimally impacted by the Projects.
Middle Township	82.7	12.7	15.3	Natural Resources Inventory (Adopted 2007, Revised 2010) Master Plan Reexamination Report (2010) Master Plan - Land Use Plan Updates (2010)	While the Natural Resource Inventory lists the scenic assets of the Township, there are no specific provisions for protecting or enhancing the outward views from within the community, nor beach/ocean views. The Township of Middle Master Plan Reexamination Report includes no specific policies or scenic assets to protect for outward views from within the community, nor beach/ocean views. The Middle Township Master Plan Land Use Update provides no specific policies or scenic assets to protect for outward views from within the community, nor beach/ocean views.	While the Natural Resource Inventory explains the potential flooding impacts of sea level rise on the Township, there are no specific goals or objectives to mitigate those impacts. The Township of Middl Master Plan Reexamination Report includes no specific goals or policies to mitigate flooding or sea level rise to enhance the Township's climate resiliency. The Middle Township Master Plan Land Use Update includes no specific goals or policies to mitigate flooding or sea level rise to enhance the Township's climate resiliency.	
North Wildwood, City of	2.5	0.8	30.5	None identified.			
Ocean City	11.8	4.2	35.8	City of Ocean City Master Plan (Adopted 1988, Revised 2006) Ocean City Open Space & Recreation Plan (2014) Master Plan Reexamination Report (2019)	An objective of the Ocean City Master Plan is to promote a desirable visual environment through creative development techniques with respect to environmental assets and constraints of the overall city and of individual development sites. Another objective is to encourage the preservation and restoration of historically significant buildings and site within the city in order to maintain the heritage of Ocean City for enjoyment of future generations. There are development provisions for accessory structures in the waterfront neighborhoods of the city to preserve waterfront views. The Ocean City Open Space and Recreation Plan includes a conservation goal to preserve and maintain the ecological, historical, visual, recreational and scenic resources of the City. The Plan includes guidelines to acquire sites of special scenic value that should be protected to preserve or enhance the character of the community. The Master Plan Reexamination Report includes no specific provisions for protecting or enhancing the outward views from within the community, nor beach/ocean views.	protection from sea level rise and severe storm events. The Master Plan Reexamination Report includes that the City has identified the most flood-prone neighborhoods on the island and is working with outside engineering experts to design comprehensive plans to mitigate flooding. There is also a study underway to create a living shoreline for improved resilience to tidal flooding.	The Projects are compatibale with sustainability goals as it pertains to protecting communities from flooding and sea level rise resulting from climate change. As demonstrated in the VIA, the visual effects associated with the Projects could affect scenic resource protection efforts put forth by the community
Sea Isle City	2.8	0.5	17.5	2017 Master Plan Reexamination Report (2017)	While the Master Plan Reexamination Report lists the scenic assets of the City, there are no specific provisions for protecting or enhancing the outward views from within the community, nor beach/ocean views.	The Master Plan Reexamination Report includes an updated objective to address storm water resiliency through planning, regulations, and design tools to control flooding as a result of ocean level rise and increased flooding.	The Projects are compatibale with sustainability goals as it pertains to protecting communities from flooding and sea level rise resulting from climate change. There is no specific mention of the preservation of outward views from within communities, nor ocean/beach views.



Municipality or County	Total Area (sq miles)	Area Within ZVI (sq miles)	Percent Area withir ZVI(%)	n Identified Planning Document(s)	Scenic Objectives	Climate Resiliency	Project Compatibility
Stone Harbor Borough	2.3	0.6	27	Stone Harbor Master Plan (2009) Borough of Stone Harbor Master Plan Reexamination Report (2019)		The Master Plan includes no specific provisions to mitigate or provide protection from flooding or sea level rise. The Reexamination Report lists the significant changes in policies and objectives since the most recent planning documents. One of those changes is the Borough's preparedness for flooding due to sea level rise which is enhanced by the adoption of a Flood Damage Prevention Ordinance that will increase the municipalities resiliency to climate change.	The Projects are compatibale with sustainability goals as it pertains to protecting communities from flooding and sea level rise resulting from climate change. The plan identifies aesthetic goals that pertain to streetscape and architectural standards. These goals may be minimally impacted by the Projects.
Upper Township	68.4	14.2	20.8	Upper Township Master Plan Reexamination Report and Land Use Plan Amendment (2006) Natural Resources Inventory (2006) 2018 Master Plan Reexamination Report (2018) 2020 Master Plan Reexamination Report (2020)	The Master Plan includes no specific provisions for protecting or enhancing the outward views from within the community, nor beach/ocean views. While the Natural Resource Inventory lists the scenic assets of the Township, there are no specific provisions for protecting or enhancing the outward views from within the community, nor beach/ocean views. The Reexamination Reports of 2018 and 2020 include no specific provisions for protecting or enhancing the outward views from within the community, nor beach/ocean views.	The Master Plan includes no specific provisions to mitigate or provide protection from flooding or sea level rise. The Natural Resource Inventory includes no specific provisions to mitigate or provide protection from flooding or sea level rise. The Reexamination Reports of 2018 and 2020 include no specific provisions to mitigate or provide protection from flooding or sea level rise.	The plans do not include specific provisions in regard to climate resiliency. There is no specific mention of the preservation of outward views from within communities, nor ocean/beach views.
Ocean County							
Ocean County	757.5	133.1	17.6	Conservation Plan Element-Environmental Resources and Recreation Inventory 2009 2011 Comprehensive Master Plan (2011) Open Space, Parks & Recreation Plan (2020)	The Comprehensive Master Plan includes no specific provisions for protecting or enhancing the outward views from within the community, nor beach/ocean views. The Conservation Plan Element's overall goal is to preserve and maintain the ecological, historic, visual, recreational, and scenic resources of the City. However, there areno specific provisions for protecting or enhancing the outward views from within the community, nor beach/ocean views. The Open Space, Parks, and Recreation Plan includes no specific provisions for protecting or enhancing the outward views from within the community, nor beach/ocean views.	The Comprehensive Master Plan includes that the County will develop stormwater management guidelines to reduce flood damage. The Conservation Plan Element includes a recommended objective to study innovative methods of reducing wave damage to the beach due to sea level rise, which would strengthen the County's resiliency. A priority of the Open Space, Parks, and Recreation Plan includes the protection of the costal area for storm resiliency and protection from impacts of sea level rise.	The Projects are compatibale with sustainability goals as it pertains to protecting communities from flooding and sea level rise resulting from climate change. There is no specific mention of the preservation of outward views from within communities, nor ocean/beach views.
Barnegat Township	40.3	8.7	21.7	2011 Barnegat Township Master Plan (2011)	The Master Plan includes no specific provisions for protecting or enhancing the outward views from within the community, nor beach/ocean views.	The Master Plan includes no specific provisions to mitigate or provide protection from flooding or sea level rise.	The plans do not include specific provisions in regard to climate resiliency. There is no specific mention of the preservation of outward views from within communities, nor ocean/beach views.
Beach Haven Borough	2.3	1.1	47.4	Beach Haven Borough Comprehensive Master Plan (2017)	A goal of the Comprehensive Master Plan withing the Public Access Plan Section is to maintain and continue to promote a visually pleasing aesthetic along the waterfront areas. However, there are no specific provisions for protecting or enhancing the outward views from within the community, nor beach/ocean views.	An objective of the Comprehensive Master Plan is to support and apply the best available data related to sea-level-rise and storm surge risks for substantial improvements, new developments and community facilities. Another objective of the plan is to participate in planning initiatives aimed at resiliency, mitigation and shoreline stabilization. The resiliency initiatives in the plan include incorporating sea level rise as a hazard in Borough plans.	The Projects are compatibale with sustainability goals as it pertains to protecting communities from flooding and sea level rise resulting from climate change. There is no specific mention of the preservation of outward views from within communities, nor ocean/beach views.
Berkeley Township	54.1	10.4	19.1	Berkeley Township Comprehensive Master Plan (1997) General Reexamination of the Master Plan (2019) Environmental Resources Inventory (2012)	The Township Master Plan and the Reexamination Report include no specific provisions for protecting or enhancing the outward views from within the community, nor beach/ocean views. The Township Environmental Resources Inventory includes no specific provisions for protecting or enhancing the outward views from within the community, nor beach/ocean views.	The Township Master Plan includes no specific provisions to mitigate or provide protection from flooding or sea level rise. The Reexamination Report includes objective amendments related to resiliency, some of which include to encourage renovations and modifications that are resilient to flood- and storm-related impacts and to encourage regional solutions to flood- and storm-related impacts. The Township Environmental Resources Inventory includes no specific provisions to mitigate or provide protection from flooding or sea level rise.	The plans do not include specific provisions in regard to climate resiliency. There is no specific mention of the preservation of outward views from within communities, nor ocean/beach views.
Eagleswood Township	18.9	8.4	44.5	None identified.			



	T. (.) A	Area Within	Percent					
Municipality or County	Total Area (sq miles)	ZVI (sq miles)	Area within	Identified Planning Document(s)	Scenic Objectives	Climate Resiliency	Project Compatibility	
		miles)	ZVI(%)		· · · · · · · · · · · · · · · · · · ·	The Township Master Plan includes an objective to conserve floodplains within the special planning district. The Reexamination Report includes no specific provisions to mitigate or provide protection	The plans do not include specific provisions in regard to climate	
Lacey Township	99.6	15.4	15.5	Master Plan Reexamination Report (2012)	,	from flooding or sea level rise. The Revised Land Use Element also includes no specific provisions to mitigate or provide protection from flooding or sea level rise.	resiliency. As demonstrated in the VIA, the visual effects	
				Lacey Township Master Plan Updated - Revised Land	also includes no specific provisions for protecting or enhancing the outward views from within the community, nor		associated with the Project could affect scenic resource protection	
				Use Element (2016)	beach/ocean views.		efforts put forth by the	
					The Township Master Plan includes a goal to promote a desirable visual environment through conservation and	The Township Master Plan includes no specific provisions to mitigate or provide protection from	The plans do not include specific provisions in regard to climate	
					preservation of valuable natural features. However, it includes no specific provisions or scenic assets for protecting or enhancing the outward views from within the community, nor beach/ocean views.	illooding of sea lever rise.	resiliency. There is no specific	
Little Egg Harbor Township	73.9	39	52.8	1999 Master Plan (1999)			mention of the preservation of	
							outward views from within	
							communities, nor ocean/beach	
					The Comprehensive Master Plan includes no specific provisions or scenic assets for protecting or enhancing the	The Comprehensive Master Plan includes no specific provisions to mitigate or provide protection	The plan does not include	
					outward views from within the community, nor beach/ocean views.	from flooding or sea level rise.	specific provisions in regard to	
Long Beach Township	23.5	17.1	72.6	Master Plan Update (2017)			climate resiliency. There is no specific mention of the	
Long Beach Township	23.3	17.1	72.0	Master Fian Opdate (2017)			preservation of outward views	
							from within communities, nor	
							ocean/beach views.	
					The Ocean Township Master Plan includes a conservation goal to identify scenic areas within the Township and	The Ocean Township Master Plan includes a conservation goal to identify, map, and preserve	The Projects are compatibale	
						environmentally sensitive land in the Township, including wetlands, flood plains and other flood	with climate resiliency goals as it	
					protecting or enhancing the outward views from within the community, nor beach/ocean views.	prone areas. This goal remains valid in the Reexamination Report and the Township plans to adopt	pertains to protecting	
						the updated FEMA floodplain maps to inform these decisions.	communities from flooding and	
Ocean Township	31.6	10.3	32.5	Ocean Township Master Plan (1990)			sea level rise resulting from	
				2019 Master Plan Reexamination Report (2019)			climate change. As demonstrated in the VIA, the visual effects	
							associated with the Projects	
							could affect scenic resource	
							protection efforts that have and	
					The Master Plan includes recommended zoning ordinances to regulate accessory structures in residential districts to	A goal of the Master Plan is to implement more resilient building practices in existing floodplains and	The Projects are compatibale	
					protect viewsheds. Provisions pertaining the visual quality in this report mostly address aesthetic standards, as	more resilient building requirements in areas where Superstorm Sandy had land use impacts. A	with climate resiliency goals as it	
					expressed through architectural standards. There is no specific mention of the preservation of outward views from	similar goal of the plan is to improve the resiliency of the Township's coastal area through acquiring	pertains to protecting	
						at-risk properties to flooding, raise existing residential homes in the floodplain, and implement	communities from flooding and	
Stafford Township	54.6	14.8	27	2017 Master Plan Land Use Element (2017)		hazard mitigation techniques including green and grey infrastructure.	sea level rise resulting from	
·							climate change. There is no	
							specific mention of the preservation of outward views	
							from within communities, nor	
							ocean/beach views.	
					The Master Plan Land Use Element includes no specific provisions for the preservation of outward views from within	The Master Plan Land Use Element includes recommended sustainability and resiliency objectives, of		
						which the relevant points include, preparing for and mitigating the impacts of flooding from storm	pertains to protecting	
				Natural Resources Inventory (2016)		events and sea level rise. The Natural Resource inventory includes discussion of provisions that have		
Toms River Township	52.7	4.6	8.7	(20.79)		been implemented in the Township to prepare for and mitigate flooding from storm events and sea	sea level rise resulting from	
'				Township of Toms River Master Plan (2017)		level rise.	climate change. There is no	
							specific mention of the preservation of outward views	
							from within communities, nor	
Tuckerton Parauch	2.7	1.6	440	None identified				
Tuckerton Borough	3.7	1.6	44.8	None identified.				



ATTACHMENT C

VISIBILITY FROM VISUALLY SENSITIVE RESOURCES

					Vic	Viewshed Results		Figure 1.2-3	
	, <i>,</i> ,						Percent Visibility ⁵		
	Location						Visibility		
						Number of FAA			
				Distance to Nearest	Number of Turbines	Warning Lights	2-25%26-50%		
				Turbine	Potentially	Potentially	51-75%	VSR	Sheet
Visually Sensitive Resource ¹ National Historic Landmarks	Municipality	County	KOP Number ²	(Miles) ³	Visible ⁴	Visible ⁴	76-100%	Number	Number
Atlantic City Convention Hall	City of Atlantic City	Atlantic	AC02	11.4	200	200	•	1	7
Lucy, The Margate Elephant	City of Margate City	Atlantic	MC01, MC02	14.4	139	136	•	2	6
Properties Listed on the National or State Regis	ters of Historic Places		AC01N, AC01,						
Absecon Lighthouse	City of Atlantic City	Atlantic	ACOTN, ACOT,	10.7	27	17	•	3	7
Church of the Ascension	City of Atlantic City	Atlantic		11.2	1	0	•	4	7
Shelburne Hotel	City of Atlantic City	Atlantic		11.3	52	2	•	5	7
John Stafford Historic District	City of Ventnor City	Atlantic	VC02	12.5	200	199	•	6	7
Beach Haven Historic District (Boundary Increase and Additional Documentation)	Borough of Beach Haven	Ocean	BHB01, BHB01 BHB01,	13.1	22	19	0	7	5
Beach Haven Historic District	Borough of Beach Haven	Ocean	BHB01	13.4	6	0	•	8	5
Dr. Jonathan Pitney House	City of Absecon	Atlantic		16.6	4	0	•	9	7
Linwood Historic District	City of Linwood	Atlantic		17.7	51	31	•	10	6
Bay Front Historic District	City of Somers Point	Atlantic		18.4	157	45	•	11	6
Somers Mansion	City of Somers Point City of Egg Harbor City; Galloway	Atlantic		18.9	46	21	•	12	6
L.N. Renault and Sons Winery	Township	Atlantic		24.4	3	0	0	13	4
South Tuckahoe Historic District	City of Corbin City; Upper Township	Atlantic, Cape May		26.9	14	3	0	14	6
Marshallville Historic District	Upper Township	Cape May		28.1	2	0	0	15	6
Abbott's Modern Cabins	Hamilton Township	Atlantic	NN4/004	31.6	2	0	0	16	4
Hereford Lighthouse	City of North Wildwood	Cape May	NWC01	34.6	196	42	•	17	8
Properties Determined Eligible for the National of Atlantic City Beautiful Historic District	or State Registers of Historic Places City of Atlantic City	Atlantic		11.2	2	1	•	19	7
Administration Building for the Board of	ony or resemble only	, warns		11.2		Į.		13	,
Education	City of Atlantic City	Atlantic		11.4	1	0	•	20	7
419 CARSON AVE	City of Atlantic City	Atlantic		11.4	2	0	•	21	7
USCG Station Atlantic City Ritz Carlton Hotel	City of Atlantic City City of Atlantic City	Atlantic Atlantic		11.5	178 134	142	•	22	7
Atlantic City Armory	City of Atlantic City City of Atlantic City	Atlantic		11.7 11.9	134	92	•	23 24	7
	, ,		LEHT02,	11.3	I	U		۷4	'
Little Egg Harbor US Life Saving Station #23	Little Egg Harbor Township	Ocean	LEHT01	12.0	200	200	•	25	5
The Knife and Fork Restaurant	City of Atlantic City City of Atlantic City, Absecon,	Atlantic		12.1	10	8	•	26	7
	Pleasantville, Egg Harbor City; Winslow, Waterford, Egg Harbor,								
	Hammonton, Mullica, Galloway	Adjoint O			_		_	_	
Camden and Atlantic Railroad Historic District Saint Leonard's Tract Historic District	Townships City of Ventner City	Atlantic, Camden	VC01	12.2	81	51	•	27	2, 4, 6, 7
West Jersey and Atlantic Railroad Historic	City of Ventnor City City of Atlantic City, Pleasantville;	Atlantic	VCUT	12.7	200	200	•	28	7
District	Hamilton, Egg Harbor Township	Atlantic		14.1	62	15	•	29	4, 6, 7
Oceanville / Leeds Point / Moss Mill Historic	Colloway Township	Atlantia		45.0	40	4.4	•	00	_
District Conovertown Historic District	Galloway Township Galloway Township	Atlantic Atlantic		15.3 16.2	42	41 0	0	30 31	5 7
Studebaker Showroom	Egg Harbor Township	Atlantic		16.3	1	0	•	32	6
North Shore Road Historic District	City of Absecon	Atlantic		16.3	70	45	•	33	6, 7
0	City of Ocean City; Egg Harbor	All, II O	EHT01,				_		
Ocean City-Longport Bridge (SI&A #3100001) South Shore Road Historic District	Township City of Absecon	Atlantic, Cape May Atlantic	EHT02	16.3	200	200	0	34	6
OOUUT OHOLE NOAU HISTORIC DISTRICT	Borough of Tuckerton; Little Egg	Auanuc		16.4	4	0		35	6, 7
Tuckerton Historic District	Harbor Township	Ocean		17.0	157	75	•	36	5
Bass River State Forest Historic District	Bass River, Little Egg Harbor Townships	Burlington, Ocean	BRT01	18.0	169	66	•	37	5
	Cities of Somers Point, Port Republic;								
Garden State Parkway Historic District (Atlantic) Bay Front Historic District Extension (745-820	Egg Harbor, Galloway Townships	Atlantic		18.3	200	200	•	38	4, 5, 6
Shore Road)	City of Somers Point	Atlantic		18.8	15	7	0	39	6
Gulf Service Station	City of Port Republic	Atlantic		19.0	94	90	•	40	5
Garden State Parkway Historic District (Burlington)	City of Port Republic; Bass River, Little Egg Harbor Townships Cities of Cape May, Ocean City,	Atlantic, Burlington, Ocean		19.4	200	200	•	41	5
	Corbin City, Estell Manor; Boroughs of West Cape May, Woodbine, Folsom; Lower, Middle, Dennis, Upper,								
Atlantic City Railroad Cape May Division Historic District		Atlantic, Camden, Cape May		19.8	131	31	•	42	4, 6, 8
Garden State Parkway Historic District (Cape	Lower, Middle, Dennis, Upper, Egg	A(I) (I) 2							
Мау)	Harbor Townships	Atlantic, Cape May		20.1	195	92	•	43	6, 8



					Viewshed Results			Figure 1.2-3	
							Percent		
	Location						Visibility ⁵		
						Number of	O <1%		
				Distance	Number of	FAA Warning	2-25 %		
				to Nearest	Turbines	Lights	1 26-50%		
				Turbine	Potentially	Potentially	51-75%	VSR	Sheet
Visually Sensitive Resource ¹	Municipality Boroughs of Beachwood, South Toms	County	KOP Number ²	(Miles) ³	Visible ⁴	Visible ⁴	76-100%	Number	Number
'	River; Eagleswood, Little Egg Harbor,								
1	Stafford, Barnegat, Ocean, Lacey,								
1	Berkeley, Toms River, Lakewood,								
Garden State Parkway Historic District (Ocean)	Brick Townships	Ocean		20.7	7	0	0	44	1, 3, 5
Morris Beach Historic District	Egg Harbor Township	Atlantic		20.8	36	5	•	45	6
Corson's Inlet Bridge (SI&A # 3100002)	Upper Township	Cape May	UT01	22.4	200	179		46	6
Green Bank Historic District	Washington Township	Burlington	0.0.	26.8	200	0	0	47	4
Green Bank Filotorio Biotriot	Washington Township	Danington		20.0	2	U		41	4
North and South Tuckahoe Historic District	City of Corbin City; Upper Township	Atlantic, Cape May		26.9	14	3	0	48	6
	City of Sea Isle City; Borough of						_		
Townsend Inlet Bridge (SI&A # 3100003)	Avalon; Middle Township	Cape May	SIC01, SIC02	27.3	200	144	•	49	8
Residence [original location]	Borough of Avalon	Cape May		27.3	1	0	•	50	8
Forked River Coast Guard Station No. 112	Berkeley Township	Ocean		29.9	3	0	0	51	3
The Judge's Shack	Berkeley Township	Ocean		30.9	156	88	•	52	3
Grassy Sound Historic District	Middle Township	Cape May					_		
•	· ·		NIMOOA	34.3	3	0	0	53	8
North Wildwood Life Saving Station	City of North Wildwood	Cape May	NWC01	34.6	196	42	•	54	8
Wildwoods Shore Resort Historic District	City of Wildwood	Cape May		36.8	135	1	•	55	8
Coorgo A Bodding Bridge (019 A # 0500450)	City of Wildwood Lower Town	Cons Mari			_	_			
George A. Redding Bridge (SI&A # 0506150)	City of Wildwood; Lower Township	Cape May		37.1	8	0	•	56	8
Midway Camps Historic District	Borough of Seaside Park; Berkeley Township	Ocean		07.4	450	0.5	•	-7	2
1	•			37.1	156	25		57	3
AT&T Transmitter Building and Antenna Field	Berkeley Township	Ocean	00004	38.0	96	0	•	58	3
U.S. Life Saving Station No. 13	Borough of Seaside Park	Ocean	SPB01	38.9	85	0	•	59	3
Ocean Beach Historic District (Units 1, 2, and 3)	Borough of Lavallette; Toms River Township	Ocean	TRT01	40.0	0.4	0		00	2
, , , , ,	· ·		IRIUI	42.0	84	0	•	60	3
Mantoloking Historic District	Borough of Mantoloking	Ocean		45.2	58	0	•	61	1
National Natural Landmarks		,		-	-				
Manahawkin Bottomland Hardwood Forest National Wildlife Refuges	Stafford Township	Ocean	ST01	21.0	168	48	•	62	5
	Cities of Brigantine, Port Republic; Boroughs of Beach Haven, Tuckerton, Ship, Barnegat, Ocean, Seaside Heights, Mantoloking; Long Beach, Eagleswood, Bass River, Little Egg Harbor, Stafford, Barnegat, Ocean, Lacey, Berkeley, Toms River, Brick,	Atlantic, Burlington,	BRT01, GT01, GT02, LEHT03,						
Edwin B. Forsythe NWR	Galloway Townships	Ocean	ST01, LAT01	9.2	200	200	•	63	1, 3, 5, 7
0 14 11115	Borough of Woodbine; Lower, Middle,		1.704				_		
Cape May NWR	Dennis, Upper Townships	Cape May	LT01	22.9	157	2	•	64	6, 8
State Wildlife Management Areas	City of Atlantic City, Brigantine,					I	1		
	Absecon, Pleasantville; Galloway								
Absecon Wildlife Management Area	Township	Atlantic		10.3	200	200	•	65	5, 6, 7
, v	'		LEHT02,	10.0	200	200		- 00	0, 0, 1
Great Bay Boulevard Wildlife Management Area	Little Egg Harbor Township	Ocean	LEHT01	11.5	200	200	•	66	5
Dark Island Wildlife Management Area	Egg Harbor Township	Atlantic		15.0	170	29	•	67	6
Pork Island Wildlife Management Area									6
Malibu Beach Wildlife Management Area	Egg Harbor Township	Atlantic	EHT02	16.0	159	70	•	68	
· ·	Egg Harbor Township City of Port Republic; Galloway	Atlantic	EHT02	16.0	159	70	•	68	
Malibu Beach Wildlife Management Area Port Republic Wildlife Management Area	City of Port Republic; Galloway Township Cities of Sea Isle City, Ocean City;	Atlantic Atlantic	EHT02	16.0 17.5	159 198	70 193	•	68 69	4, 5
Malibu Beach Wildlife Management Area Port Republic Wildlife Management Area Cape May Coastal Wetlands Wildlife	City of Port Republic; Galloway Township Cities of Sea Isle City, Ocean City; Borough of Avalon; Lower, Middle,	Atlantic	EHT02	17.5	198	193	•	69	4, 5
Malibu Beach Wildlife Management Area Port Republic Wildlife Management Area Cape May Coastal Wetlands Wildlife Management Area	City of Port Republic; Galloway Township Cities of Sea Isle City, Ocean City; Borough of Avalon; Lower, Middle, Dennis, Upper Townships	Atlantic Cape May	EHT02	17.5 18.9	198	193 199	•	69 70	4, 5 6, 8
Malibu Beach Wildlife Management Area Port Republic Wildlife Management Area Cape May Coastal Wetlands Wildlife	City of Port Republic; Galloway Township Cities of Sea Isle City, Ocean City; Borough of Avalon; Lower, Middle, Dennis, Upper Townships Bass River, Washington Townships	Atlantic	EHT02	17.5	198	193	•	69	4, 5
Malibu Beach Wildlife Management Area Port Republic Wildlife Management Area Cape May Coastal Wetlands Wildlife Management Area	City of Port Republic; Galloway Township Cities of Sea Isle City, Ocean City; Borough of Avalon; Lower, Middle, Dennis, Upper Townships Bass River, Washington Townships Cities of Corbin City, Somers Point,	Atlantic Cape May		17.5 18.9	198	193 199	•	69 70	4, 5 6, 8
Malibu Beach Wildlife Management Area Port Republic Wildlife Management Area Cape May Coastal Wetlands Wildlife Management Area Swan Bay Wildlife Management Area	City of Port Republic; Galloway Township Cities of Sea Isle City, Ocean City; Borough of Avalon; Lower, Middle, Dennis, Upper Townships Bass River, Washington Townships Cities of Corbin City, Somers Point, Estell Manor; Upper, Egg Harbor	Atlantic Cape May Burlington	EMC01,	17.5 18.9 19.7	198 200 200	193 199 194	•	70 71	4, 5 6, 8 4, 5
Malibu Beach Wildlife Management Area Port Republic Wildlife Management Area Cape May Coastal Wetlands Wildlife Management Area Swan Bay Wildlife Management Area Tuckahoe Wildlife Management Area	City of Port Republic; Galloway Township Cities of Sea Isle City, Ocean City; Borough of Avalon; Lower, Middle, Dennis, Upper Townships Bass River, Washington Townships Cities of Corbin City, Somers Point, Estell Manor; Upper, Egg Harbor Townships	Atlantic Cape May Burlington Atlantic, Cape May	EMC01, EHT03	17.5 18.9 19.7	198 200 200 152	193 199 194 30	•	70 71 72	4, 5 6, 8 4, 5
Malibu Beach Wildlife Management Area Port Republic Wildlife Management Area Cape May Coastal Wetlands Wildlife Management Area Swan Bay Wildlife Management Area	City of Port Republic; Galloway Township Cities of Sea Isle City, Ocean City; Borough of Avalon; Lower, Middle, Dennis, Upper Townships Bass River, Washington Townships Cities of Corbin City, Somers Point, Estell Manor; Upper, Egg Harbor Townships Stafford Township	Atlantic Cape May Burlington	EMC01,	17.5 18.9 19.7	198 200 200	193 199 194	•	70 71	4, 5 6, 8 4, 5
Malibu Beach Wildlife Management Area Port Republic Wildlife Management Area Cape May Coastal Wetlands Wildlife Management Area Swan Bay Wildlife Management Area Tuckahoe Wildlife Management Area Manahawkin Wildlife Management Area	City of Port Republic; Galloway Township Cities of Sea Isle City, Ocean City; Borough of Avalon; Lower, Middle, Dennis, Upper Townships Bass River, Washington Townships Cities of Corbin City, Somers Point, Estell Manor; Upper, Egg Harbor Townships Stafford Township Eagleswood, Little Egg Harbor,	Atlantic Cape May Burlington Atlantic, Cape May Ocean	EMC01, EHT03	17.5 18.9 19.7 20.0 21.0	198 200 200 152 168	193 199 194 30 48	•	70 71 72 73	4, 5 6, 8 4, 5 6 5
Malibu Beach Wildlife Management Area Port Republic Wildlife Management Area Cape May Coastal Wetlands Wildlife Management Area Swan Bay Wildlife Management Area Tuckahoe Wildlife Management Area	City of Port Republic; Galloway Township Cities of Sea Isle City, Ocean City; Borough of Avalon; Lower, Middle, Dennis, Upper Townships Bass River, Washington Townships Cities of Corbin City, Somers Point, Estell Manor; Upper, Egg Harbor Townships Stafford Township	Atlantic Cape May Burlington Atlantic, Cape May	EMC01, EHT03	17.5 18.9 19.7	198 200 200 152	193 199 194 30	•	70 71 72	4, 5 6, 8 4, 5
Malibu Beach Wildlife Management Area Port Republic Wildlife Management Area Cape May Coastal Wetlands Wildlife Management Area Swan Bay Wildlife Management Area Tuckahoe Wildlife Management Area Manahawkin Wildlife Management Area Stafford Forge Wildlife Management Area	City of Port Republic; Galloway Township Cities of Sea Isle City, Ocean City; Borough of Avalon; Lower, Middle, Dennis, Upper Townships Bass River, Washington Townships Cities of Corbin City, Somers Point, Estell Manor; Upper, Egg Harbor Townships Stafford Township Eagleswood, Little Egg Harbor, Stafford, Barnegat Townships City of Egg Harbor City; Hammonton,	Atlantic Cape May Burlington Atlantic, Cape May Ocean Ocean	EMC01, EHT03	17.5 18.9 19.7 20.0 21.0 21.3	198 200 200 152 168 200	193 199 194 30 48 194	•	70 71 72 73 74	4, 5 6, 8 4, 5 6 5 3, 5
Malibu Beach Wildlife Management Area Port Republic Wildlife Management Area Cape May Coastal Wetlands Wildlife Management Area Swan Bay Wildlife Management Area Tuckahoe Wildlife Management Area Manahawkin Wildlife Management Area	City of Port Republic; Galloway Township Cities of Sea Isle City, Ocean City; Borough of Avalon; Lower, Middle, Dennis, Upper Townships Bass River, Washington Townships Cities of Corbin City, Somers Point, Estell Manor; Upper, Egg Harbor Townships Stafford Township Eagleswood, Little Egg Harbor, Stafford, Barnegat Townships	Atlantic Cape May Burlington Atlantic, Cape May Ocean	EMC01, EHT03	17.5 18.9 19.7 20.0 21.0	198 200 200 152 168	193 199 194 30 48	•	70 71 72 73	4, 5 6, 8 4, 5 6 5
Malibu Beach Wildlife Management Area Port Republic Wildlife Management Area Cape May Coastal Wetlands Wildlife Management Area Swan Bay Wildlife Management Area Tuckahoe Wildlife Management Area Manahawkin Wildlife Management Area Stafford Forge Wildlife Management Area	City of Port Republic; Galloway Township Cities of Sea Isle City, Ocean City; Borough of Avalon; Lower, Middle, Dennis, Upper Townships Bass River, Washington Townships Cities of Corbin City, Somers Point, Estell Manor; Upper, Egg Harbor Townships Stafford Township Eagleswood, Little Egg Harbor, Stafford, Barnegat Townships City of Egg Harbor City; Hammonton, Mullica, Galloway Townships	Atlantic Cape May Burlington Atlantic, Cape May Ocean Ocean	EMC01, EHT03	17.5 18.9 19.7 20.0 21.0 21.3	198 200 200 152 168 200	193 199 194 30 48 194	•	70 71 72 73 74	4, 5 6, 8 4, 5 6 5 3, 5
Malibu Beach Wildlife Management Area Port Republic Wildlife Management Area Cape May Coastal Wetlands Wildlife Management Area Swan Bay Wildlife Management Area Tuckahoe Wildlife Management Area Manahawkin Wildlife Management Area Stafford Forge Wildlife Management Area Hammonton Creek Wildlife Management Area	City of Port Republic; Galloway Township Cities of Sea Isle City, Ocean City; Borough of Avalon; Lower, Middle, Dennis, Upper Townships Bass River, Washington Townships Cities of Corbin City, Somers Point, Estell Manor; Upper, Egg Harbor Townships Stafford Township Eagleswood, Little Egg Harbor, Stafford, Barnegat Townships City of Egg Harbor City; Hammonton, Mullica, Galloway Townships City of Estell Manor; Borough of	Atlantic Cape May Burlington Atlantic, Cape May Ocean Ocean	EMC01, EHT03	17.5 18.9 19.7 20.0 21.0 21.3	198 200 200 152 168 200	193 199 194 30 48 194	•	70 71 72 73 74	4, 5 6, 8 4, 5 6 5 3, 5
Malibu Beach Wildlife Management Area Port Republic Wildlife Management Area Cape May Coastal Wetlands Wildlife Management Area Swan Bay Wildlife Management Area Tuckahoe Wildlife Management Area Manahawkin Wildlife Management Area Stafford Forge Wildlife Management Area Hammonton Creek Wildlife Management Area Great Egg Harbor River Wildlife Management Area	City of Port Republic; Galloway Township Cities of Sea Isle City, Ocean City; Borough of Avalon; Lower, Middle, Dennis, Upper Townships Bass River, Washington Townships Cities of Corbin City, Somers Point, Estell Manor; Upper, Egg Harbor Townships Stafford Township Eagleswood, Little Egg Harbor, Stafford, Barnegat Townships City of Egg Harbor City; Hammonton, Mullica, Galloway Townships City of Estell Manor; Borough of Folsom; Weymouth, Hamilton, Buena Vista Townships	Atlantic Cape May Burlington Atlantic, Cape May Ocean Ocean Atlantic Atlantic	EMC01, EHT03	17.5 18.9 19.7 20.0 21.0 21.3 22.6	198 200 200 152 168 200 6	193 199 194 30 48 194 0		70 71 72 73 74 75	4, 5 6, 8 4, 5 6 5 3, 5 4 4, 6
Malibu Beach Wildlife Management Area Port Republic Wildlife Management Area Cape May Coastal Wetlands Wildlife Management Area Swan Bay Wildlife Management Area Tuckahoe Wildlife Management Area Manahawkin Wildlife Management Area Stafford Forge Wildlife Management Area Hammonton Creek Wildlife Management Area Great Egg Harbor River Wildlife Management	City of Port Republic; Galloway Township Cities of Sea Isle City, Ocean City; Borough of Avalon; Lower, Middle, Dennis, Upper Townships Bass River, Washington Townships Cities of Corbin City, Somers Point, Estell Manor; Upper, Egg Harbor Townships Stafford Township Eagleswood, Little Egg Harbor, Stafford, Barnegat Townships City of Egg Harbor City; Hammonton, Mullica, Galloway Townships City of Estell Manor; Borough of Folsom; Weymouth, Hamilton, Buena	Atlantic Cape May Burlington Atlantic, Cape May Ocean Ocean Atlantic Atlantic	EMC01, EHT03	17.5 18.9 19.7 20.0 21.0 21.3	198 200 200 152 168 200	193 199 194 30 48 194		70 71 72 73 74	4, 5 6, 8 4, 5 6 5 3, 5



County March County March County March County March						Vie	ewshed Re	sults	Figu	e 1.2-3
Maintigibility County Co										
Maniphy Scientific Researce Maniphy County Count		Location						Visibility ⁵		
Maniphy Scientific Researce Maniphy County Count										
Country Coun										
Municipality County Coun							Warning			
Name Consequence Consequ									VCD	Chart
Description	Visually Sensitive Resource ¹	Municipality	County	KOP Number ²						
Communication Communicatio										
Total Park Voulent Wildlin Management Cocen, Lasey Leenships Docan 257 18 0 0 3 3 3 3 3 3 3 3	Creaming of Ferret Wildlife Management Area		Durlington Occas							_
Seate State	· ·	Berkeley, Manchester Townships	Burlington, Ocean		28.8	173	31	O	79	3
State Parks		Ocean, Lacey Townships	Ocean		29.7	18	0		80	3
Constraint State Park		and the second s			20.1	10			00	<u> </u>
Long Beach Clean, Lianey, Sarieslay Covern El 102, ETIO2, El 102, ETIO2, El 102, ETIO2, El 102, ETIO2, El 102,										
Stand Reach State Park Foundhys Coean 8701 20,9 200 194 3 62 3	Corsons Inlet State Park	, , , , , , , , , , , , , , , , , , , ,	Cape May		21.3	200	200	•	81	6
Service Preserve State Preserve Service Preserve Service Preserve Service Preserve Service Service Preserve Service	Jaland Darah Ctata Davis		0						••	_
State Nation and Historic Preserve Areas Christ of Brigations Allaride BC01, BO22 8.0 200 200 6.5 6.0		· ·		BIUI						
North Pictorium State Natural Area City of Disparatine City of Cean Cean Cean		Borough of Barnegat Light	Ocean		27.2	52	6		83	3
Marelle Isabel Preserve		City of Brigantine	Atlantic	BC01 BC02	9.0	200	200		0.4	7
Raisy Charmal State Preserve Statificat Journal page Statificat Journal page Statificat Journal page Copan Journal State Preserve Statificat Journal page Copan Journal State Preserve Statificat Journal page Copan May 20,7 136 5		· · ·		D001, D002						
Kalow State Preserve	·							•		
Digital Creek Marsh State Preserve						Ţ.				
Clarks Landing State Preserve City of Egg Harbort City, Galoway Township Allandic 20.8 4.5 0 € 89 4.5		'								
Clarks Landing State Preserve	IVIIIIGI OIGGA IVIAISII STATE FIESEIVE		Cape May		20.7	136	5		δQ	р
Seathmere State Natural Area Upper Township Cage May UT01 2.2 200 139 • 90 6 4	Clarks Landing State Preserve		Atlantic		20.8	45	0	•	89	4.5
Read Process State Preserve	_	Upper Township	Cape May	UT01						
Hamilton State Preserve		i i i i i i i i i i i i i i i i i i i	. ,							
Sancis Port Harbor State Preserve						1				
Clamming Creek State Preserve		• • • • • • • • • • • • • • • • • • • •				104				
State Forests		· ·								
Bass River State Forest		· ·								
Eagleswood, Bass River, Little 1gg Harbor Washington, Slafford, Barnegat, Woodland Townships Burlington, Ocean BRT01 18.0 193 73 3 3 3 3 4 5 5 6 3 4, 5 5 5 6 3 4, 5 5 6 5 5 6 5 5 6 6		Temerater rememp	000011		41.5	0	U		33	3
Bass River State Forest Barnegat, Woodland Townships Burlington, Ocean BRT01 18.0 193 73 .										
Bass Hiver, Washington, Winslow, Waterford, Shamong, Tabernacie, Woodland, Hammonton, Mullica Townships (Cape May, Maurice Townships (Cape May), Maurice Townships (Cape May) (Cape Ma		_								
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Corsons Inlet State Park - Fishing Access City of Ocean City Cape May Corsons Inlet State Park - Fishing Upper Township Cape May UT01 UT0	· · ·	City of Ocean City	Cana May		04.0	000	000		405	_]
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Senator Frank S. Farley State Marina City of Atlantic City Atlantic 11.5 46 24 • 109 7 Lighthouses (not S/NRHP-Listed)		Borough of Barnegat Light	Ocean		27.3	7	n		108	3
Lighthouses (not S/NRHP-Listed)						•				
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	• ,	Borough of Tuckerton	Ocean		17.8	0	0	•	110	5
Public Beaches	_			<u> </u>						-



					Vi	ewshed Re	sults	Figu	re 1.2-3
							Percent Visibility ⁵		
	Location		_				VISIDIIILY		
						Number of	O <1%		
				Distance		FAA	• 2-25%		
				to Nearest	Number of Turbines	Warning Lights	① 26-50%		
				Turbine	Potentially	Potentially	51-75%	VSR	Sheet
Visually Sensitive Resource ¹	Municipality	County	KOP Number ²	(Miles) ³	Visible ⁴	Visible ⁴	76-100%	Number	Number
			VC02, AC02,						
			AC03, AC04N,						
			AC01N,						
Atlantic City Beach	City of Atlantic City, Brigantine	Atlantic	AC04S, AC01, AC04	40.4	000	000		440	7
Beach Haven Heights Park	Long Beach Township	Ocean	LBT01	10.4 11.8	200	200	•	112	7
Deach Haven Heights Fark	Long Beach Township	Ocean	LBTOT	11.0	200	200	•	113	5
Long Beach Township Municipal Beach	Long Beach Township	Ocean	LBT01, LBT02	11.8	200	200	•	114	5
Beach Haven Inlet	Long Beach Township	Ocean		12.5	200	200	•	115	5
	Borough of Beach Haven; Long Beach		BHB01,						
Beach Haven Borough Public Beach	Township	Ocean	BHB01	12.7	200	200	•	116	5
Beach Pavillion	Borough of Beach Haven	Ocean	1.001	13.3	200	200	•	117	5
Margate City Public Beach	City of Margate City	Atlantic	MC01, MC03, MC02	40.5	000	000		440	6.7
Atlantic Coast Public Beach	City of Margate City	Atlantic	MC01, MC02	13.5	200	200	•	118	6, 7
Mystic Beach	Little Egg Harbor Township	Ocean	WCO1, WCO2	13.6	200	200	•	119	6, 7
iviystic beach	Borough of Tuckerton; Little Egg	Ocean		15.8	200	200	•	120	5
Tuckerton Green Street Beach	Harbor Township	Ocean	TB01, TB02	16.2	200	192	•	121	5
	,		OC04, OC05,	. 5.2		102			
Ocean City Beachfront	City of Ocean City	Cape May	OC02	16.3	200	200	•	122	6
Ship Bottom Borough Municipal Beach	Borough of Ship Bottom	Ocean	SBB01	18.2	200	200	•	123	5
Somers Point City Municipal Beach Park	City of Somers Point	Atlantic		18.6	101	28	•	124	6
Jennifer Lane Beach	Stafford Township	Ocean		20.3	149	41	•	125	5
Harvey Cedars Borough Municipal Beach	Borough of Harvey Cedars	Ocean		21.9	200	200	•	126	5
Strathmere Beach	City of Sea Isle City; Upper Township	Cape May	UT01	22.2	200	200	•	127	6
Sea Isle City Beach Dune Upland	City of Sea Isle City	Cape May	SIC01, SIC02	23.5	200	195	•	128	6, 8
Sea Isle City Municipal Beach	City of Sea Isle City	Cape May	SIC03	23.7	200	194	•	129	6, 8
Long Beach Township Municipal Beach and									
Tennis Court	Long Beach Township	Ocean		24.2	200	199	•	130	5
Atlantic Ocean Beachfront	Borough of Barnegat Light	Ocean	BLB01	26.0	200	195	•	131	3
Sea Isle City Beach Dune and Promenade Lands	City of Sea Isle City	Cape May		26.0	200	182	•	132	8
Barnegat Beach	Barnegat Township	Ocean		26.4	158	36	•	133	3
Tuckahoe Beach	Upper Township	Cape May		26.6	25	2	•	134	6
Small Bay Beach	Ocean Township	Ocean		27.2	145	30	•	135	3
The Beach	Ocean Township	Ocean		27.9	173	32	0	136	3
North Wildwood Beach	City of North Wildwood	Cape May	NWC01	34.4	197	43	•	137	8
Butler Beach	Berkeley Township	Ocean		35.6	5	0	•	138	3
White Sands Beach	Berkeley Township	Ocean		37.0	156	25	•	139	3
Seaside Park Beach and Boardwalk	Borough of Seaside Park	Ocean	SPB01	37.4	164	17	•	140	3
Seaside Park Borough Bay Beach Area	Borough of Seaside Park	Ocean		37.4	6	0	•	141	3
Ortley Beach	Toms River Township	Ocean		40.0	80	0	•	142	3
	Borough of Lavallette; Toms River			10.0				172	J
Lavallette Borough Ocean Front Beach	Township	Ocean		40.6	101	0	•	143	3
Brick Beach	Brick Township	Ocean	BKT01	44.0	67	0	•	144	1, 3
Brick Beach II	Brick Township	Ocean		44.3	74	0	•	145	1
Brick Beach I	Brick Township	Ocean		44.4	64	0	•	146	1
Environmental Justice Areas	Au 17-1	• **							
340010101052	City of Brigantine	Atlantic		9.9	200	200	•	148	7
			AC04N,						
			AC01N,						
			AC04S, AC01,						
340010019001	City of Atlantic City	Atlantic	AC05, AC04	10.2	200	200	•	149	7
			AC03, AC04N,					Ì	
340010024003	City of Atlantic City	Atlantic	AC04S, AC04	10.3	200	200	•	150	7
			AC01N, AC01,						
340010025003	City of Atlantic City	Atlantic	AC05	10.4	200	200	•	151	7
340010025001	City of Atlantic City	Atlantic	AC05	10.5	200	200	•	152	7
340010025002	City of Atlantic City	Atlantic	AC05	10.7	12	7	•	153	7
340010023001	City of Atlantic City	Atlantic	AC02	10.9	200	200	•	154	7
	O'L f All t' - O'L -	Atlantic		11.0	10	2	•	155	7
340010024002	City of Atlantic City				+	+			
340010014002	City of Atlantic City	Atlantic		11.0	145	94	•	156	7
				11.0 11.0 11.2	145 8 3	94 0 0	•	156 157 158	7 7 7



					Vi	ewshed Re	sults	Figu	re 1.2-3
	16						Percent Visibility ⁵		
	Location		-				Visibility		
						Number of	O <1%		
				Distance	Number of	FAA Warning	② 2-25%		
				to Nearest Turbine	Turbines	Lights	 26-50% 51-75%		.
Visually Sensitive Resource ¹	Municipality	County	KOP Number ²	(Miles) ³	Potentially Visible ⁴	Potentially Visible ⁴	• 76-100%	VSR Number	Sheet Number
340010014001	City of Atlantic City	Atlantic		11.3	200	199	•	159	7
340010004003	City of Atlantic City	Atlantic	AC02	11.3	200	200	•	160	7
340010014003	City of Atlantic City	Atlantic		11.3	12	2	•	161	7
340010011001	City of Atlantic City	Atlantic		11.4	1	0	0	162	7
340010013002	City of Atlantic City	Atlantic		11.5	200	158	•	163	6, 7
340010004002	City of Atlantic City	Atlantic	AC02	11.6	200	200	•	164	7
340010023002	City of Atlantic City	Atlantic		11.6	11	4	•	165	7
340010012003 340010002001	City of Atlantic City	Atlantic	VC02	11.6	8	2	•	166	7
340010002001	City of Atlantic City City of Atlantic City	Atlantic Atlantic	V C U Z	11.7	200	200	•	167 168	7
340010012002	City of Atlantic City	Atlantic		11.8 11.8	200	200 5	•	169	7
340010132012	City of Ventnor City	Atlantic	VC02	12.0	200	200	•	170	7
340010003003	City of Atlantic City	Atlantic	1002	12.0	1	0	0	171	7
340010001001	City of Atlantic City	Atlantic		12.2	19	4	•	172	7
340010002002	City of Atlantic City	Atlantic		12.3	200	200	•	173	7
340010013001	City of Atlantic City	Atlantic		12.3	22	5	•	174	7
340010002003	City of Atlantic City	Atlantic	VC02	12.3	200	200	•	175	7
340010001002	City of Atlantic City	Atlantic		12.4	18	1	•	176	7
340010133022	City of Ventnor City	Atlantic	VC01	12.4	200	200	•	177	7
340010132011	City of Ventnor City	Atlantic	VC02	12.4	200	200	•	178	7
340010133023	City of Ventnor City	Atlantic	VC01	12.8	200	200	•	179	7
340010132021	City of Ventnor City	Atlantic		13.5	1	0	0	180	7
340010120002	City of Pleasantville	Atlantic		14.4	123	66	•	181	6, 7
340010121002 340010103002	City of Pleasantville City of Pleasantville	Atlantic Atlantic		14.5	123	44	•	182	6, 7
340010103002	City of Pleasantville	Atlantic		14.8	175	121	•	183	6, 7
340010121001	City of Pleasantville	Atlantic		15.6 16.1	123 102	72 27	•	184 185	6, 7
340297370002	Borough of Tuckerton	Ocean		16.4	200	198	•	186	5
340010119005	City of Pleasantville	Atlantic		16.4	19	5	•	187	6
340010119002	City of Pleasantville	Atlantic		16.5	22	7	•	188	6
340010119003	City of Pleasantville	Atlantic		16.6	29	11	•	189	6
340010122001	City of Pleasantville	Atlantic		16.7	25	10	•	190	6
340010122002	City of Pleasantville	Atlantic		16.8	26	22	•	191	6
340090201014	City of Ocean City	Cape May	OC04	16.8	200	200	•	192	6
340010119001	City of Pleasantville	Atlantic		16.9	8	2	•	193	6
340010103001	City of Absecon	Atlantic		16.9	6	0	•	194	6
340010119004	City of Pleasantville	Atlantic	0004	17.1	24	12	•	195	6
340090201021 340010122003	City of Ocean City City of Pleasantville	Cape May Atlantic	OC04	17.2	200	200	0	196	6
340010117021	Egg Harbor Township	Atlantic		17.2 17.5	54 187	10 171	•	197 198	6
340010123022	City of Northfield	Atlantic		17.5	29	5	0	190	6
340010118032	Egg Harbor Township	Atlantic		17.7	38	11	•	200	6
340010105061	Galloway Township	Atlantic		17.9	10	1	0	201	4, 6
340010128012	City of Somers Point	Atlantic		18.3	172	69	•	202	6
340010128013	City of Somers Point	Atlantic		18.6	9	8	0	203	6
340297351034	Stafford Township	Ocean		18.6	200	167	•	204	5
340010117022	Egg Harbor Township	Atlantic		18.7	145	20	•	205	4, 6
340010117011	Egg Harbor Township	Atlantic		18.9	14	0	•	206	6
340010104032	Galloway Township	Atlantic		19.2	105	10	•	207	4, 6
340010127021	City of Somers Point	Atlantic		19.3	125	31	•	208	6
340010104033 340010117012	Galloway Township	Atlantic		19.3	2	0	0	209	4
340010117012	Egg Harbor Township Egg Harbor Township	Atlantic Atlantic		20.7	11	1	•	210	6
340010117013	Egg Harbor Township	Atlantic		22.0 22.1	16 6	1	•	211 212	6
340010114033	Hamilton Township	Atlantic		22.1	157	29	•	212	4, 6
340010106001	City of Egg Harbor City	Atlantic		22.7	116	7	•	213	4, 6
340010114042	Hamilton Township	Atlantic		22.8	13	1	•	215	4, 6
340010114043	Hamilton Township	Atlantic		23.1	8	1	•	216	4, 6
340297350024	Stafford Township	Ocean		25.2	1	0	0	217	3, 5
340010106002	City of Egg Harbor City	Atlantic		25.8	1	0	•	218	4
340010106003	City of Egg Harbor City	Atlantic		26.6	1	0	•	219	4
340297340011	Barnegat Township	Ocean		27.4	112	5	0	220	3
340090205002	Borough of Woodbine	Cape May		28.0	200	93	•	221	6
340010107004	Mullica Township	Atlantic		29.5	1	0	0	222	4



				Viewshed Results			Figure 1.2-3		
	Location						Percent Visibility ⁵		
Visually Sensitive Resource ¹	Municipality	County	KOP Number ²	Distance to Nearest Turbine (Miles) ³	Number of Turbines Potentially Visible ⁴	Number of FAA Warning Lights Potentially Visible ⁴	 <1% 2-25% 26-50% 51-75% 76-100% 	VSR Number	Sheet Number
340297321043	Lacey Township	Ocean		30.2	193	38	•	223	3
340090211002	Middle Township	Cape May		31.5	123	5	•	224	8
340090213003	City of North Wildwood	Cape May	NWC01	33.8	197	43	•	225	8
340090214002	City of Wildwood	Cape May	WC01	35.7	182	17	•	226	8
340090214003	City of Wildwood	Cape May		36.6	164	5	•	227	8
340090221022	Middle Township	Cape May		36.9	70	0	0	228	8
340297280007	Borough of Seaside Heights	Ocean	SPB01	39.1	138	0	•	229	3
340297280006	Borough of Seaside Heights	Ocean		39.2	132	0	•	230	3
340297280005	Borough of Seaside Heights	Ocean		39.3	14	0	•	231	3
340090220004	City of Cape May	Cape May		40.5	81	0	•	232	8
340297202021	Manchester Township	Ocean		43.6	35	0	•	233	1, 3

¹ This table includes all inventoried Visually Sensitive Resources (VSRs) with potential visibility of the proposed turbines (resources that overlap the Zone of Visual Influence [ZVI]).

 $^{^{2}\,\}mbox{Key}$ Observation Points (KOP) are listed if they occur within 1,000 feet of a given VSR.

³ For large areas and linear sites, approximate distance to the nearest turbine was measured from the respective area's closest point.

⁴ Turbine visibility is based on the maximum blade tip height of 319 meters and FAA warning light visibility is based on an assumed height of 185 meters.

⁵ The percentage of the mapped resource that overlaps the ZVI. For resources that extend beyond the Visual Study Area (VSA) boundary, this reflects the percentage of the area within the VSA.

ATTACHMENT D

PHOTOLOG OF KEY OBSERVATION POINTS

KOP¹	Location	County	Municipality	KOP Selected for Visual Simulation	Distance to Nearest Turbine
LAV01	Allenhurst Residential Historic District	Monmouth	Loch Arbour Village	Candidate KOP	59.4
APC01	Asbury Park Convention Center	Monmouth	Asbury Park City	Candidate KOP	58.8
APC02	Asbury Park Convention Center (Beach)	Monmouth	Asbury Park City	Candidate KOP	58.7
NT01	Ocean Grove Camp Meeting Association Historic District	Monmouth	Neptune Township	Candidate KOP	58.2
BRB01	Bradley Beach Gazebo	Monmouth	Bradley Beach Borough	Candidate KOP	57.3
BB03	Borough of Belmar Taylor Pavilion	Monmouth	Belmar Borough	Candidate KOP	55.9
BB01N	Belmar Borough 13th Street Pavilion (Night)	Monmouth	Belmar Borough	Candidate KOP	55.6
BB01	Belmar Borough 13th Street Pavilion	Monmouth	Belmar Borough	Candidate KOP	55.6
SLB01	Essex and Sussex Hotel	Monmouth	Spring Lake Borough	Candidate KOP	53.5
BYB01	Bay Head Historic District	Ocean	Bay Head Borough	Candidate KOP	48.2
BKT01	Brick Beach Three	Ocean	Brick Township	Candidate KOP	44.0
TRT01	Ocean Beach Historic District	Ocean	Toms River Township	Candidate KOP	42.9
SPB01	Beachcomber Bar	Ocean	Seaside Park Borough	Selected	39.0
BT02	Island Beach State Park - U.S. Life Saving Station #14	Ocean	Berkeley Township	Candidate KOP	36.9
LAT01	Edwin B. Forsythe National Wildlife Refuge at the Woodmansee Estate	Ocean	Lacey Township	Selected	32.2
LAT01N	Edwin B. Forsythe National Wildlife Refuge at the Woodmansee Estate (Night)	Ocean	Lacey Township	Selected	32.2
BT01	Island Beach State Park	Ocean	Berkeley Township	Selected	30.3
BLB02	Barnegat Lighthouse State Park	Ocean	Barnegat Light Borough	Selected	27.3
BLB01	Barnegat Light Borough Beach - Proximity to Barnegat Lighthouse & Barnegat Lighthouse State Park	Ocean	Barnegat Light Borough	Candidate KOP	26.7
LBT03	Beach at Long Beach Island Foundation for the Arts and Sciences	Ocean	Long Beach Township	Selected	24.9
ST01	Manahawkin WMA	Ocean	Stafford Township	Candidate KOP	21.6
SBB01	Ship Bottom Borough Municipal Beach	Ocean	Ship Bottom Borough	Selected	19.4
LEHT03	Parkertown Docks	Ocean	Little Egg Harbor Township	Candidate KOP	17.5
LBT02	Bayview Park Beach and 68th Street Ocean Beach	Ocean	Long Beach Township	Candidate KOP	16.9
TB01	South Green Street Park	Ocean	Tuckerton Borough	Candidate KOP	16.2
BHB01	Beach Haven Historic District	Ocean	Beach Haven Borough	Selected	13.5
BHB01N	Beach Haven Historic District (Night)	Ocean	Beach Haven Borough	Selected	13.5
BHB02	Centre Street, Beach Haven	Ocean	Beach Haven Borough	Selected	13.5
BHB03	Holyoke Avenue, Beach Haven	Ocean	Beach Haven Borough	Selected	12.9
LBT01	Edwin B. Forsythe National Wildlife Refuge	Ocean	Long Beach Township	Candidate KOP	11.9
LBT04	Edwin B. Forsythe National Wildlife Refuge, Holgate	Ocean	Long Beach Township	Selected	11.8
LEHT02	Great Bay Boulevard WMA - Rutgers Field Station	Ocean	Little Egg Harbor Township	Selected	11.9
BC02	North Brigantine Natural Area	Atlantic	Brigantine City	Selected	9.0
BC01	North Brigantine Natural Area - Buggy Entrance	Atlantic	Brigantine City	Candidate KOP	9.3

Atlantic Shores Offshore Wind

Outer Continental Shelf



KOP¹	Location	County	Municipality	KOP Selected for Visual Simulation	Distance to Nearest Turbine
AC01	Atlantic City Boardwalk	Atlantic	Atlantic City	Candidate KOP	10.5
AC01N	Atlantic City Boardwalk (Night)	Atlantic	Atlantic City	Candidate KOP	10.5
AC04S	Ocean Casino - Sky Garden (Sunset)	Atlantic	Atlantic City	Candidate KOP	10.5
AC04	Ocean Casino - Sky Garden	Atlantic	Atlantic City	Selected	10.5
AC04N	Ocean Casino - Sky Garden (Night)	Atlantic	Atlantic City	Selected	10.5
AC05	Absecon Lighthouse	Atlantic	Atlantic City	Candidate KOP	10.7
AC03	Madison Hotel - Beach	Atlantic	Atlantic City	Candidate KOP	11.1
AC02	Jim Whelan Boardwalk Hall	Atlantic	Atlantic City	Selected	11.4
VC02	John Stafford Historic District	Atlantic	Ventnor City	Candidate KOP	12.5
VC01	Ventnor City Pier	Atlantic	Ventnor City	Candidate KOP	12.9
GT01	Edwin B. Forsythe National Wildlife Refuge (Tower)	Atlantic	Galloway Township	Selected	14.3
GT02	Edwin B. Forsythe National Wildlife Refuge	Atlantic	Galloway Township	Candidate KOP	13.0
MC03	Huntington Park	Atlantic	Margate City	Candidate KOP	13.8
EMC01	Tuckahoe WMA	Atlantic	Estell Manor City	Selected	25.7
MC01	Margate City Beach	Atlantic	Margate City	Candidate KOP	14.4
MC02	Lucy the Margate Elephant NHL	Atlantic	Margate City	Selected	14.4
OC05	East Surf Road Beach Access	Cape May	Ocean City	Candidate KOP	16.3
EHT01	Long Point Bridge	Atlantic	Egg Harbor Township	Candidate KOP	16.6
EHT02	Malibu Beach Wildlife Management Area	Atlantic	Egg Harbor Township	Candidate KOP	16.7
OC04	Gillian's Wonderland Amusement	Cape May	Ocean City	Selected	17.2
OC03	Ocean City Bike Path	Cape May	Ocean City	Candidate KOP	18.5
BRT01	Bass River State Forest	Burlington	Bass River Township	Selected	18.5
OC02	34th Street Beach Access	Cape May	Ocean City	Candidate KOP	19.4
EHT03	Tuckahoe Wildlife Management Area and Morris Beach Historic District	Atlantic	Egg Harbor Township	Candidate KOP	21.2
OC01	Corson's Inlet State Park	Cape May	Ocean City	Selected	21.7
UT01	Strathmore Natural Area	Cape May	Upper Township	Candidate KOP	22.3
SIC03	Sea Isle City Promenade	Cape May	Sea Isle City	Candidate KOP	25.1
EMC01	Tuckahoe Wildlife Management Area	Atlantic	Estell Manor City	Candidate KOP	25.7
SIC01	Townsend Inlet Bridge - Beach	Cape May	Sea Isle City	Candidate KOP	27.3
SIC02	Townsend Inlet Bridge - Bridge	Cape May	Sea Isle City	Selected	27.4
AB01	Avalon Borough Dune and Beach Trail	Cape May	Avalon Borough	Candidate KOP	28.9
SHB02	Stone Harbor Tag Office & 95th Street	Cape May	Stone Harbor Borough	Candidate KOP	31.3
SHB01	Stone Harbor Point	Cape May	Stone Harbor Borough	Candidate KOP	32.8
NWC01	Proximity to Hereford Lighthouse	Cape May	North Wildwood City	Candidate KOP	34.6
WC01	Wildwood Adventure Pier	Cape May	Wildwood City	Candidate KOP	36.4
LT01	Proximity to Cape May National Wildlife Refuge	Cape May	Lower Township	Candidate KOP	39.2
LT02	Cape May Point State Park	Cape May	Lower Township	Selected	45.0

¹The mapped location of each KOP is available within the VIA document as Figure 2.2-1.

Outer Continental Shelf



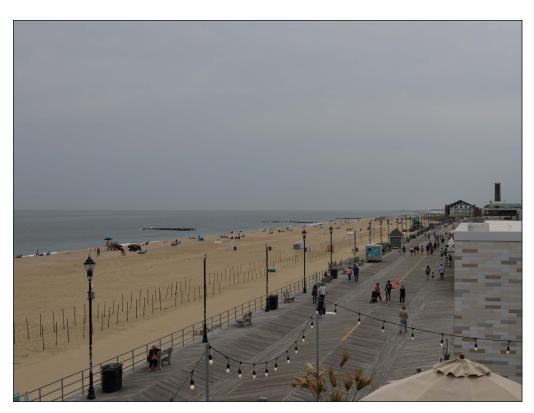


Key Observation Point: LAV01

Location: 40.23085°N, 73.99595°W

View from Allenhurst Residential Historic District Loch Arbour Village, Monmouth County, New Jersey

Candidate KOP



Key Observation Point: APC01

Location: 40.22275°N, 73.999°W

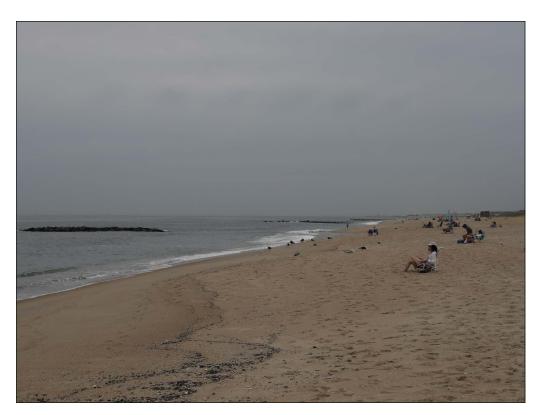
View from Asbury Park Convention Center Asbury Park City, Monmouth County, New Jersey

Candidate KOP

Atlantic Shores Offshore Wind

Outer Continental Shelf





Key Observation Point: APC02

Location: 40.22039°N, 73.99881°W

View from Asbury Park Convention Center (Beach) Asbury Park City, Monmouth County, New Jersey

Candidate KOP



Key Observation Point: NT01

Location:

40.21287°N, 74.00151°W

View from Ocean Grove Camp Meeting Association Historic District Neptune Township, Monmouth County, New Jersey

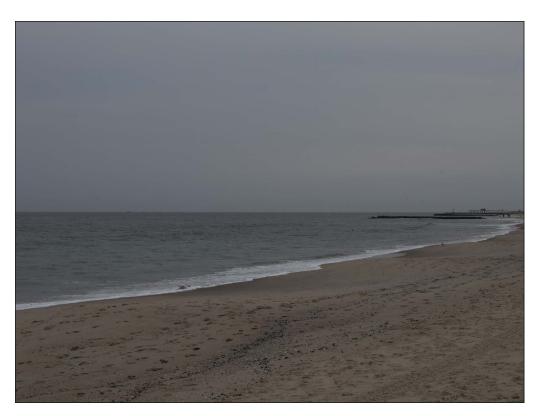
Candidate KOP

Atlantic Shores Offshore Wind

Outer Continental Shelf







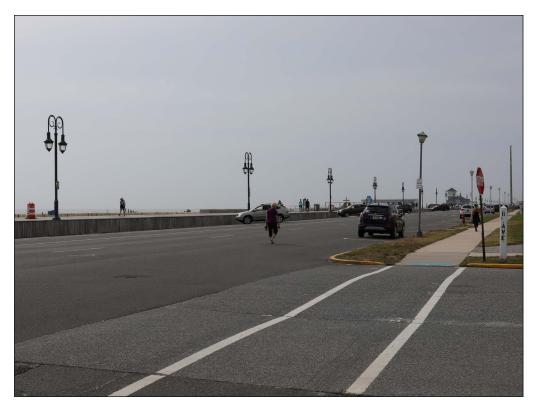
Key Observation Point: BRB01

Location:

40.20089°N, 74.00606°W

View from Bradley Beach Gazebo Bradley Beach Borough, Monmouth County, New Jersey

Candidate KOP



Key Observation Point: BB03

Location:

40.18106°N, 74.0124°W

View from Borough of Belmar Taylor Pavilion Belmar Borough, Monmouth County, New Jersey

Candidate KOP

Atlantic Shores Offshore Wind

Outer Continental Shelf







Key Observation Point: BB01N

Location: 40.17672°N, 74.01304°W

View from Belmar Borough 13th Street Pavilion (Night) Belmar Borough, Monmouth County, New Jersey

Candidate KOP



Key Observation Point: BB01

Location:

40.17677°N, 74.01306°W

View from Belmar Borough 13th Street Pavilion Belmar Borough, Monmouth County, New Jersey

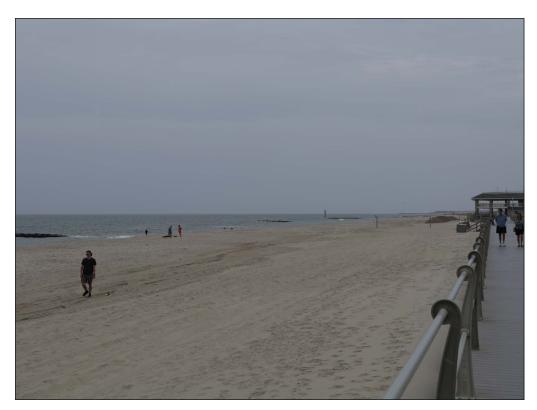
Candidate KOP



Outer Continental Shelf







Key Observation Point: SLB01

Location: 40.14616°N, 74.02357°W

View from Essex and Sussex Hotel Spring Lake Borough, Monmouth County, New Jersey

Candidate KOP



Key Observation Point: BYB01

Location: 40.07°N, 74.04189°W

View from Bay Head Historic District Bay Head Borough, Ocean County, New Jersey

Candidate KOP

Atlantic Shores Offshore Wind

Outer Continental Shelf





Key Observation Point: BKT01

Location: 40.00835°N, 74.05665°W

View from Brick Beach Three Brick Township, Ocean County, New Jersey

Candidate KOP



Key Observation Point: TRT01

Location:

39.9922°N, 74.06094°W

View from Ocean Beach Historic District Toms River Township, Ocean County, New Jersey

Candidate KOP



Outer Continental Shelf







Key Observation Point: SPB01

Location:

39.93533°N, 74.07164°W

View from Beachcomber Bar Seaside Park Borough, Ocean County, New Jersey

KOP Selected for Visual Simulation



Key Observation Point: BT02

Location:

39.8958°N, 74.07963°W

View from Island Beach State Park - U.S. Life Saving Station #14 Berkeley Township, Ocean County, New Jersey

Candidate KOP



Outer Continental Shelf







Key Observation Point: LAT01

Location: 39.83711°N, 74.15082°W

View from Edwin B.
Forsythe National
Wildlife Refuge at the
Woodmansee Estate
Lacey Township, Ocean
County, New Jersey

KOP Selected for Visual Simulation



Key Observation Point: LAT01N

Location: 39.83711°N, 74.15082°W

View from Edwin B.
Forsythe National
Wildlife Refuge at the
Woodmansee Estate
(Night)
Lacey Township, Ocean
County, New Jersey

KOP Selected for Visual Simulation

Atlantic Shores Offshore Wind

Outer Continental Shelf







Key Observation Point: BT01

Location: 39.80805°N, 74.08997°W

View from Island Beach State Park Berkeley Township, Ocean County, New Jersey

KOP Selected for Visual Simulation



Key Observation Point: BLB02

Location: 39.76434°N, 74.10624°W

View from Barnegat Lighthouse State Park Barnegat Light Borough, Ocean County, New Jersey

KOP Selected for Visual Simulation

Atlantic Shores Offshore Wind

Outer Continental Shelf







Key Observation Point: BLB01

Location:

39.75537°N, 74.10042°W

View from Barnegat Light Borough Beach - Proximity to Barnegat Lighthouse & Barnegat Lighthouse State Park Barnegat Light Borough, Ocean County, New Jersey

Candidate KOP



Key Observation Point: LBT03

Location:

39.72895°N, 74.12058°W

View from Beach at Long Beach Island Foundation for the Arts and Sciences Long Beach Township, Ocean County, New Jersey

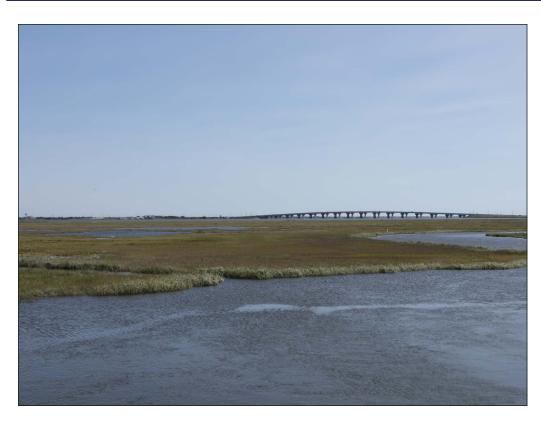
KOP Selected for Visual Simulation



Outer Continental Shelf







Key Observation Point: ST01

Location: 39.68394°N, 74.20768°W

View from Manahawkin WMA Stafford Township, Ocean County, New Jersey

Candidate KOP



Key Observation Point: SBB01

Location:

39.65152°N, 74.17169°W

View from Ship Bottom Borough Municipal Beach Ship Bottom Borough, Ocean County, New Jersey

KOP Selected for Visual Simulation



Outer Continental Shelf







Key Observation Point: LEHT03

Location:

39.60972°N, 74.29228°W

View from Parkertown Docks Little Egg Harbor Township, Ocean County, New Jersey

Candidate KOP



Key Observation Point: LBT02

Location:

39.61561°N, 74.19793°W

View from Bayview Park Beach and 68th Street Ocean Beach Long Beach Township, Ocean County, New Jersey

Candidate KOP



Outer Continental Shelf





Key Observation Point: TB01

Location: 39.57664°N, 74.33028°W

View from South Green Street Park Tuckerton Borough, Ocean County, New Jersey

Candidate KOP



Key Observation Point: BHB01

Location:

39.56188°N, 74.23545°W

View from Beach Haven Historic District Beach Haven Borough, Ocean County, New Jersey

KOP Selected for Visual Simulation



Outer Continental Shelf







Key Observation Point: BHB01N

Location:

39.56188°N, 74.23545°W

View from Beach Haven Historic District (Night) Beach Haven Borough, Ocean County, New Jersey

KOP Selected for Visual Simulation



Key Observation Point: BHB02

Location:

39.56169°N, 74.23571°W

View from Centre Street, Beach Haven Beach Haven Borough, Ocean County, New Jersey

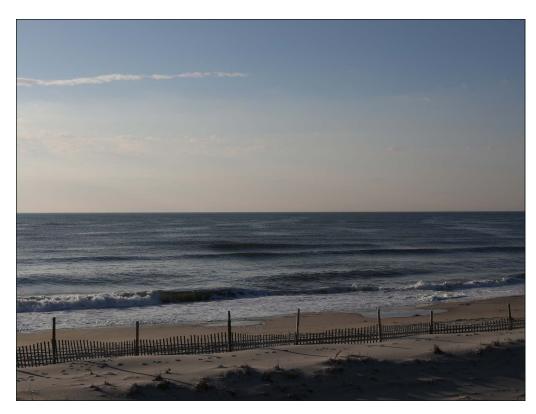
KOP Selected for Visual Simulation



Outer Continental Shelf







Key Observation Point: BHB03

Location: 39.55258°N, 74.24419°W

View from Holyoke Avenue, Beach Haven Beach Haven Borough, Ocean County, New Jersey

KOP Selected for Visual Simulation



Key Observation Point: LBT01

Location:

39.53262°N, 74.26122°W

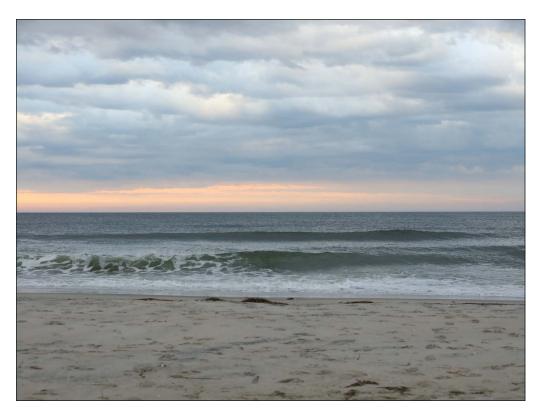
View from Edwin B. Forsythe National Wildlife Refuge Long Beach Township, Ocean County, New Jersey

Candidate KOP



Outer Continental Shelf





Key Observation Point: LBT04

Location: 39.53091°N, 74.26447°W

View from Edwin B. Forsythe National Wildlife Refuge, Holgate Long Beach Township, Ocean County, New Jersey

KOP Selected for Visual Simulation



Key Observation Point: LEHT02

Location:

39.50913°N, 74.32038°W

View from Great Bay Boulevard WMA - Rutgers Field Station Little Egg Harbor Township, Ocean County, New Jersey

KOP Selected for Visual Simulation



Outer Continental Shelf







Key Observation Point: BC02

Location:

39.42954°N, 74.33968°W

View from North Brigantine Natural Area Brigantine City, Atlantic County, New Jersey

KOP Selected for Visual Simulation



Key Observation Point: BC01

Location:

39.41544°N, 74.35335°W

View from North Brigantine Natural Area - Buggy Entrance Brigantine City, Atlantic County, New Jersey

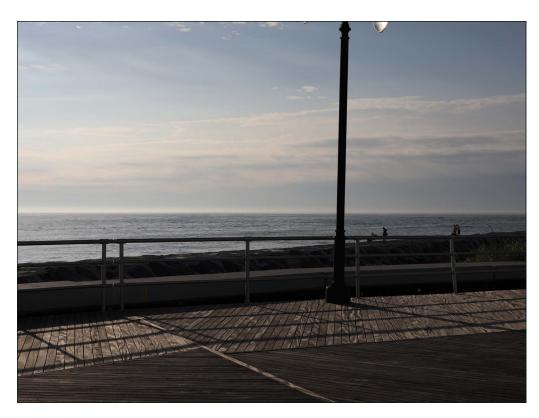
Candidate KOP



Outer Continental Shelf





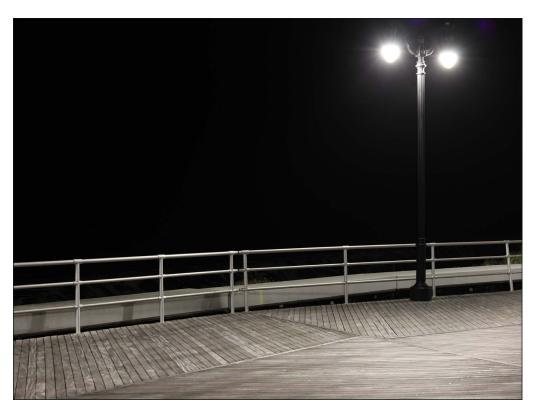


Key Observation Point: AC01

Location: 39.36611°N, 74.4099°W

View from Atlantic City Boardwalk Atlantic City, Atlantic County, New Jersey

Candidate KOP



Key Observation Point: AC01N

Location: 39.36614°N, 74.40991°W

View from Atlantic City Boardwalk (Night) Atlantic City, Atlantic County, New Jersey

Candidate KOP

Atlantic Shores Offshore Wind

Outer Continental Shelf







Key Observation Point: AC04S

Location: 39.36226°N, 74.41353°W

View from Ocean Casino - Sky Garden (Sunset) Atlantic City, Atlantic County, New Jersey

Candidate KOP



Key Observation Point: AC04

Location: 39.36225°N, 74.41353°W

View from Ocean Casino
- Sky Garden
Atlantic City, Atlantic
County, New Jersey

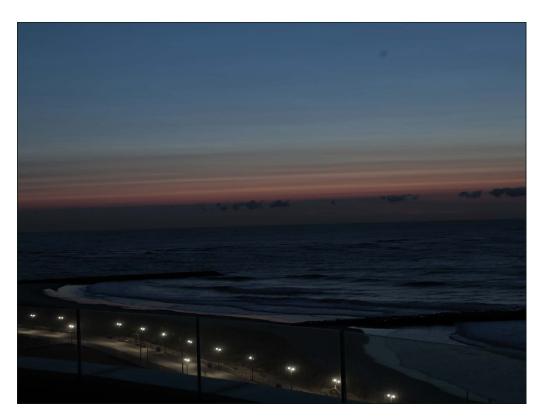
KOP Selected for Visual Simulation

Atlantic Shores Offshore Wind

Outer Continental Shelf







Key Observation Point: AC04N

Location: 39.36219°N, 74.41361°W

View from Ocean Casino - Sky Garden (Night) Atlantic City, Atlantic County, New Jersey

KOP Selected for Visual Simulation



Key Observation Point: AC05

Location: 39.3664°N, 74.41412°W

View from Absecon Lighthouse Atlantic City, Atlantic County, New Jersey

Candidate KOP

Atlantic Shores Offshore Wind

Outer Continental Shelf





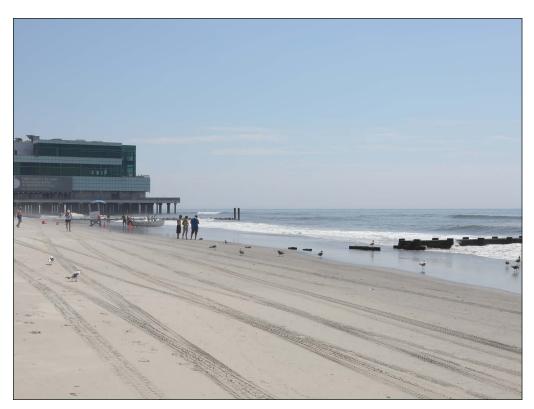
Key Observation Point: AC03

Location:

39.35564°N, 74.42856°W

View from Madison Hotel -Beach Atlantic City, Atlantic County, New Jersey

Candidate KOP



Key Observation Point: AC02

Location:

39.35245°N, 74.43817°W

View from Jim Whelan Boardwalk Hall Atlantic City, Atlantic County, New Jersey

KOP Selected for Visual Simulation



Outer Continental Shelf



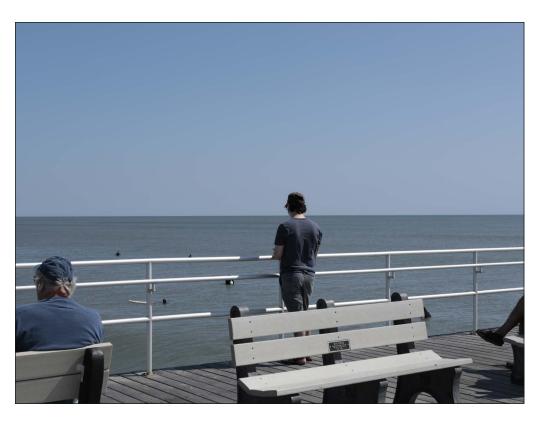


Key Observation Point: VC02

Location: 39.34214°N, 74.4658°W

View from John Stafford Historic District Ventnor City, Atlantic County, New Jersey

Candidate KOP



Key Observation Point: VC01

Location:

39.33575°N, 74.47718°W

View from Ventnor City Pier Ventnor City, Atlantic County, New Jersey

Candidate KOP

Atlantic Shores Offshore Wind

Outer Continental Shelf





Key Observation Point: GT01

Location: 39.45787°N, 74.43224°W

View from Edwin B. Forsythe National Wildlife Refuge (Tower) Galloway Township, Atlantic County, New Jersey

KOP Selected for Visual Simulation



Key Observation Point: GT02

Location: 39.44386°N, 74.41219°W

View from Edwin B.
Forsythe National Wildlife
Refuge
Galloway Township,
Atlantic County, New
Jersey

Candidate KOP



Outer Continental Shelf







Key Observation Point: MC03

Location:

39.32668°N, 74.49875°W

View from Huntington Park Margate City, Atlantic County, New Jersey

Candidate KOP



Key Observation Point: EMC01

Location:

39.32615°N, 74.72375°W

View from Tuckahoe WMA Estell Manor City, Atlantic County, New Jersey

KOP Selected for Visual Simulation



Outer Continental Shelf







Key Observation Point: MC01

Location: 39.31996°N, 74.51055°W

View from Margate City Beach Margate City, Atlantic County, New Jersey

Candidate KOP



Key Observation Point: MC02

Location:

39.32088°N, 74.5117°W

View from Lucy the Margate Elephant NHL Margate City, Atlantic County, New Jersey

KOP Selected for Visual Simulation

Atlantic Shores Offshore Wind

Outer Continental Shelf





Key Observation Point: OC05

Location: 39.28924°N, 74.55285°W

View from East Surf Road Beach Access Ocean City, Cape May County, New Jersey

Candidate KOP



Key Observation Point: EHT01

Location:

39.30192°N, 74.55697°W

View from Long Point Bridge Egg Harbor Township, Atlantic County, New Jersey

Candidate KOP



Outer Continental Shelf







Key Observation Point: EHT02

Location:

39.30784°N, 74.55694°W

View from Malibu Beach Wildlife Management Area Egg Harbor Township, Atlantic County, New Jersey

Candidate KOP



Key Observation Point: OC04

Location:

39.2751°N, 74.56878°W

View from Gillian's Wonderland Amusement Ocean City, Cape May County, New Jersey

KOP Selected for Visual Simulation

Atlantic Shores Offshore Wind

Outer Continental Shelf







Key Observation Point: OC03

Location: 39.29992°N, 74.59159°W

View from Ocean City Bike Path Ocean City, Cape May County, New Jersey

Candidate KOP



Key Observation Point: BRT01

Location:

39.57672°N, 74.4083°W

View from Bass River State Forest Bass River Township, Burlington County, New Jersey

KOP Selected for Visual Simulation



Outer Continental Shelf







Key Observation Point: OC02

Location: 39.25036°N, 74.60785°W

View from 34th Street Beach Access Ocean City, Cape May County, New Jersey

Candidate KOP



Key Observation Point: EHT03

Location:

39.31163°N, 74.64065°W

View from Tuckahoe Wildlife Management Area and Morris Beach Historic District Egg Harbor Township, Atlantic County, New Jersey

Candidate KOP



Outer Continental Shelf







Key Observation Point: OC01

Location: 39.21132°N, 74.64435°W

View from Corson's Inlet State Park Ocean City, Cape May County, New Jersey

KOP Selected for Visual Simulation



Key Observation Point: UT01

Location:

39.20268°N, 74.65219°W

View from Strathmore Natural Area Upper Township, Cape May County, New Jersey

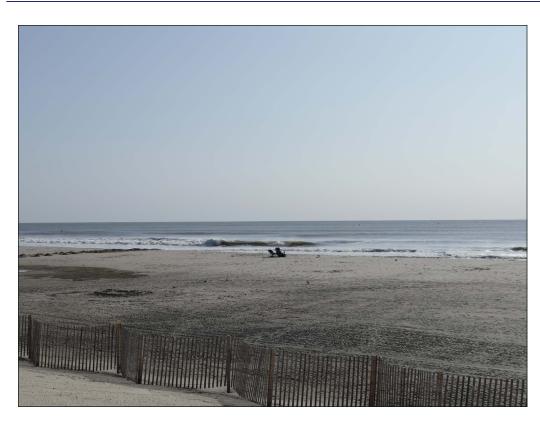
Candidate KOP



Outer Continental Shelf







Key Observation Point: SIC03

Location:

39.15452°N, 74.68971°W

View from Sea Isle City Promenade Sea Isle City, Cape May County, New Jersey

Candidate KOP



Key Observation Point: EMC01

Location:

39.32615°N, 74.72375°W

View from Tuckahoe Wildlife Management Area Estell Manor City, Atlantic County, New Jersey

Candidate KOP



Outer Continental Shelf







Key Observation Point: SIC01

Location: 39.1194°N, 74.71425°W

View from Townsend Inlet Bridge - Beach Sea Isle City, Cape May County, New Jersey

Candidate KOP



Key Observation Point: SIC02

Location:

39.11919°N, 74.71579°W

View from Townsend Inlet Bridge - Bridge Sea Isle City, Cape May County, New Jersey

KOP Selected for Visual Simulation



Outer Continental Shelf







Key Observation Point: AB01

Location:

39.08441°N, 74.72643°W

View from Avalon Borough Dune and Beach Trail Avalon Borough, Cape May County, New Jersey

Candidate KOP



Key Observation Point: SHB02

Location:

39.05242°N, 74.7549°W

View from Stone Harbor Tag Office & 95th Street Stone Harbor Borough, Cape May County, New Jersey

Candidate KOP



Outer Continental Shelf







Key Observation Point: SHB01

Location: 39.03181°N, 74.772°W

View from Stone Harbor Point Stone Harbor Borough, Cape May County, New Jersey

Candidate KOP



Key Observation Point: NWC01

Location: 39.00731°N, 74.79059°W

View from Proximity to Hereford Lighthouse North Wildwood City, Cape May County, New Jersey

Candidate KOP

Atlantic Shores Offshore Wind

Outer Continental Shelf







Key Observation Point: WC01

Location: 38.98194°N, 74.80986°W

View from Wildwood Adventure Pier Wildwood City, Cape May County, New Jersey

Candidate KOP



Key Observation Point: LT01

Location: 38.95487°N, 74.8484°W

View from Proximity to Cape May National Wildlife Refuge Lower Township, Cape May County, New Jersey

Candidate KOP

Atlantic Shores Offshore Wind

Outer Continental Shelf





Key Observation Point: LT02

Location: 38.933°N, 74.96038°W

View from Cape May Point State Park Lower Township, Cape May County, New Jersey

KOP Selected for Visual Simulation

ATTACHMENT E (SEPARATE FILE ATTACHMENT)

VISUAL SIMULATIONS AND RATING PANEL RESULTS

ATTACHMENT F

RESUMES OF RATING PANEL MEMBERS



Kellie Anne Connelly, RLA

Principal, Landscape Architecture & Planning

education

Harvard University Graduate School of Design, Master of Landscape Architecture, 2000.

SUNY College of Environmental Science and Forestry, Bachelor of Landscape Architecture, 1995.

SUNY College of Technology at Alfred, Associate in Applied Science, 1991.

professional certification

Commonwealth of Massachusetts WBE | Federal DBE Certification Registered Landscape Architect, State of New York, License #1875 Registered Landscape Architect, Commonwealth of Massachusetts, License #1214

publications

"Protecting the Rural Landscape: Visual Quality Guidelines for Plymouth, Massachusetts and the New England Region." Graduate School of Design, Harvard University. Cambridge, Massachusetts

"Toward a Joint Palestine-Israel Industrial Development in al-Shoka and Karem Shalom: An Assessment of Location and Future Planning Flexibility." Graduate School of Design, Harvard University. Cambridge, Massachusetts

Studio Works Seven. Graduate School of Design, Harvard University. Cambridge, Massachusetts

employment history

Principal Landscape Architect, Terraink, Inc., Arlington, MA, 2010 – Present.

Instructor, Rhode Island School of Design, Providence, RI, 2014 – 2018.

Project Manager, Gregory Lombardi Design, Inc., Cambridge, MA, 2008 – 2010.

Visiting Professor, Site Design and Grading Seminar; Rhode Island School of Design

Project Manager, Shadley Associates, Lexington, MA, 2007 – 2008.

Project Manager, Visual Expert, EDR Companies, Syracuse, NY, 2003 – 2007.

Adjunct Professor, SUNY College of Environmental Science and Forestry, Syracuse, NY, 2003 – 2007.

Landscape Architect, Reisen Design Associates, Cambridge, MA, 1999 – 2003.

Landscape Architect, Jacques Whitford Company, Inc., Woburn, MA, 1998 – 1999.

Project Manager, Pressley Associates, Inc., Cambridge, MA, 1995 – 1998.

representative project experience

Sunrise Wind Project - Evaluate visual impacts, rating panel for wind turbines in outer continental shelf on coast of New York, New Jersey, Connecticut, Rhode Island, and Massachusetts.

Heritage Wind Project, NY - Evaluate visual impacts, rating panel for wind turbines in Barre and Orleans County, New York.

Horseshoe Solar, NY - VIA Report Provided, field survey and viewshed evaluation for a visual impact assessment in Livingston and Monroe County, New York

Amherst Solar, MA - Visual impacts from solar arrays in a decommissioned golf course in Amherst, Massachusetts.

Plymouth Solar, MA - Screening Planting Plan Mitigate visual impacts from solar arrays in a wooded parcel in Plymouth, Massachusetts.

Revolution Wind Project, MA & RI - Evaluate visual impacts, rating panel for wind turbines in the Atlantic Ocean off the coast of Massachusetts and Rhode Island.

Skipjack Wind Project, MD - Evaluate visual impacts, rating panel for wind turbines in the Atlantic Ocean off the coast of Maryland.

Alle-Cat Wind Project, NY - Evaluate visual impacts, rating panel for wind turbines in Allegany, Cattaraugus and Wyoming Counties, New York.

Canisteo Wind Project, RI - Evaluate visual impacts, rating panel for rating panel for wind turbines in Steuben County, New York.

South Fork Wind Project, NY & RI - Evaluate visual impacts, rating panel for wind turbines in the Atlantic Ocean off the coast of New York and Rhode Island.

Baron Wind, NY - Evaluate visual impacts, rating panel for wind turbines in Steuben County, New York.

Timbermill Wind, NC - Evaluate visual impacts, rating panel for wind turbines in Perguimans Chowan Counties, North Carolina.

Lighthouse Wind, NY - Evaluate visual impacts, rating panel for wind turbines in Somerset and Yates Counties, Western New York.

Offshore MD - Evaluate visual impacts, rating panel for wind turbines offshore of Maryland.

Moosehead Lake Recreational Resource Assessment, ME - Investigation coordination of recreational resources in the Moosehead Lake Region, Maine.

Antrim Wind Power, NH - Provided Expert Witness with Court Testimony. Authored a Visual Impact Assessment (VIA) for a 28.8-MW, 9-turbine wind farm project in the Town of Antrim, Hillsborough County, New Hampshire. The VIA described the visible components of the proposed project, defined the visual character of the study area, and inventoried and evaluated existing visual resources. The study also evaluated potential project visibility within the study area, identified key views and assessed visual impacts associated with the proposed wind power project.

Block Island Wind Farm, RI - Evaluated visual impacts for wind turbines and transformer station improvements on Block Island, Rhode Island.

Howard Wind Farm, NY - Evaluated visual impacts for wind turbines in Steuben County, New York.

Allegheny Wind, PA - Evaluated visual impacts for wind turbines in Cambria and Blair Counties, Pennsylvania.

New England East-West Solution (NEEWS) - Evaluated visual impacts for transmission line and transformer station improvements in New England.

Interstate Reliability - Evaluated visual impacts for transmission line and transformer station improvements in NE.

Maxson Hill Road Solar, RI - Mitigate visual impacts from solar arrays in a wooded parcel of Hopkinton, Rhode Island.

Southern Rhode Island Transmission Project – *Prior to Terraink*, Expert Witness with Court Testimony that was not challenged. Oversaw preparation of the Visual Impact Assessment (VIA) and the Supplemental Tower Hill Tap Line VIA prepared for the proposed upgrade and extension of approximately 26 miles of an existing L-190 115 kilovolt transmission line in southern Rhode Island. Coordinated fieldwork, defined landscape similarity zones and viewer groups, identified sensitive resources/receptors, supervised the development of viewshed maps and visual simulations, participated in the preparation of the VIA report and provided expert witness testimony on visual issues.

Tompkins County Public Safety Communications System - Prior to Terraink, directed preparation of Visual Impact Assessment component of the Draft Environmental Impact Statement (DEIS) prepared for the siting of nine new towers for wireless communications in Tompkins County, New York. Coordinated fieldwork, defined landscape similarity zones and viewer groups, identified sensitive resources/receptors, supervised the development of viewshed maps and visual simulations and participated in the preparation of the VIA report.

New York State Statewide Wireless Network - Prior to Terraink, participated in the preparation of the Generic Visual Impact Assessment (GVIA) report component of the DEIS prepared for the siting of wireless communications towers throughout New York State. Defined landscape similarity zones and viewer groups, identified sensitive resources/receptors, supervised the development of visual simulations and participated in the preparation of the GVIA report.

Visual Impact Assessment, Top Notch Wind Power Project - Prior to Terraink, evaluated visual impacts for Fairfield, Norway and Little Falls in Herkimer County, New York. The VIA report described visible components of the proposed project, defined the visual character of the study area, and inventoried and evaluated visual resources and viewer groups. The study also evaluated potential project visibility within the study area, identified key views and assessed visual impacts associated with the proposed wind power project.

Visual Impact Assessment, Cohocton Wind Power Project - Prior to Terraink, evaluated visual impacts for Visual Impact Assessment (VIA) report for an 82 MW, 41-turbine project proposed in the Town of Cohocton in Steuben County, New York. The VIA report described visible components of the proposed project, defined the visual character of the study area, and inventoried and evaluated visual resources and viewer groups. The study also evaluated potential project visibility within the study area, identified key views and assessed visual impacts associated with the proposed wind power project.

Visual Impact Assessment, Marble River Wind Farm - Prior to Terraink, assessed visual impacts for Visual Impact Assessment (VIA) report from 200 MW, 109-turbine project proposed for a 19,310-acre site in the Town of Clinton and Ellenburg in Clinton County, New York. The VIA report described visible components of the proposed project, defined the visual character of the study area, and inventoried and evaluated visual resources and viewer groups. The study also evaluated potential project visibility within the study area, identified key views and assessed visual impacts associated with the proposed wind power project.

Visual Impact Assessment, Jordanville Wind Power Project - Prior to Terraink, coordinated study and prepared Visual Impact Assessment (VIA) report for a proposed 150 MW 75-turbine project proposed in the Towns of Stark and Warren in Herkimer County, New York. The VIA report described visible components of the proposed project, defined the visual character of the study area, and inventoried and evaluated visual resources and viewer groups. The study also evaluated potential project visibility within the study area, identified key views and assessed visual impacts associated with the proposed wind power project.

Visual Impact Assessment, Dairy Hills Wind Farm - Prior to Terraink, evaluated visual impacts for Visual impact Assessment (VIA) report for a 160 MW, 80-turbine project proposed in the Towns of Castile, Covington, Perry, and Warsaw in Wyoming County, New York. The VIA report described visible components of the proposed project, defined the visual character of the study area, and inventoried and evaluated visual resources and viewer groups. The study also evaluated potential project visibility within the study area, identified key views and assessed visual impacts associated with the proposed wind power project.



Jocelyn Gavitt, RLA

Principal

education

SUNY College of Environmental Science and Forestry, Master of Science in Landscape Architecture, 2007.

Cornell University, Bachelor of Science in Landscape Architecture, 1993. University of Copenhagen, Denmark International Study Program, 1992.

professional certification

Registered Landscape Architect, New York State License #1768-1 Registered Landscape Architect, North Carolina State License #910

presentations / publications

"Cultural Ecosystem Services as Part of Greenspace Management." GGavitt, J.M. and Smardon, R.C., 2019. Calculating Cultural Ecosystem Services as part of Greenspace Management?. Journal of International Business Research and Marketing, 4(4), pp.7-12.

Presented at the 5th Fabos Greenspace Conference at the University of Massachusetts, Amherst March 30th 2019

Community Participatory Practices: Case Study, Oneida, NY. April 2015, Upstate ASLA Conference, Saratoga Springs, NY

employment history

Principal, Gavin Associates, Cazenovia, NY, 2003-Present.

Visiting Instructor, Department of Landscape Architecture, SUNY College of Environmental Science and Forestry, 2004-Present.

Principal, Trinity Architecture and Planning, Inc. Winston-Salem, NC, 1999-2001.

Landscape Architect/Project Manager, Architectural Design Associates, PA. Winston-Salem, NC. 1997-1999.

Landscape Architect/Project Manager, GS Miller Landscape Architecture, Winston-Salem, NC, 1995-1997.

Landscape Architect/Intern, Pashek Associates, PA, Pittsburgh, PA, 1993-1995.

Landscape Architect/Intern, Fallingwater, Mill Run, PA, 1993.

representative project experience

Energy Project Visual Impact Assessments - Provided expert visual assessment for Environmental Design Research, PC on the following projects:

- Sunrise Wind, Outer Continental Shelf
- Heritage Wind, Orleans County, NY
- Revolution Wind, Coastal New England
- High Bridge Wind, Chenango County, NY
- Mohawk Solar, Montgomery County, NY
- Bluestone Wind, Broome County, NY
- Allegany, Cattaraugus and Wyoming Counties, NY
- Canisteo Wind, Steuben County, NY
- South Fork Wind Farm, Offshore, Atlantic
- Galloo Island, NY
- Baron Wind, NY
- Timbermill Wind, NC

- Clear River Energy Transmission, RI
- Cassadaga Wind Project, Chautaugua County, NY
- Merrimack Valley Reliability Project, NH & MA
- New England East-West Solution (NEEWS), New England States
- Block Island Wind Project, MA
- Allegany Wind Project, Cattaraugus County, NY
- Rhode Island Reliability Project, RI
- Howard Wind Project, Steuben county, NY
- NY Regional Interconnect, NY
- Dutch Hill Wind Project, Cohocton, NY

Local Waterfront Revitalization Plan, Cazenovia, NY - Preparation of a Waterfront Revitalization Plan for the Village and Town of Cazenovia through funding from the LWRP program. Compiled inventory and analysis, conducted public meetings, designed projects to meet community needs.

Village of Manlius, NY, Main Street Revitalization - Coordination with village board and committee. Design and implementation of streetscape improvements including custom furniture, lighting, paving.

Town of Eaton Park Masterplan, Morrisville, NY - Conceptual drawings, site documentation and cost estimates for Village Park funding proposal.

North Center Street Park, East Syracuse, NY - Conceptual and Design Development Drawings for Village Park, done in conjunction with O'Brien and Gere.

Downtown Revitalization Initiative, Cazenovia, NY - Development of plans and submission for grant funding for several projects in the village. Worked in conjunction with CACDA executive director.

Arise at the Farm, Chittenango, NY - Drainage and planning drawings for working therapeutic horse farm.

Mattituck Laurel Civic Association, Long Island, NY - Led SUNY ESF studio in master plan study for hamlet of Mattituck, addressing traffic issues and connectivity of village center to water. Continuing to consult with community to prioritize and fund projects.

Cazenovia Lake Valuation Study, NY - Study conducted with Richard Smarden, PhD to value the benefit revenue streams to the Cazenovia community associated with the presence of a healthy lake. Methods included literature review, data collection, surveys and real estate comparisons through GIS data bases.

Vineyard Haven Resiliency Planning Study, Martha's Vineyard, MA - Coordinated planning effort with Vineyard Haven interest groups through SUNY ESF studio process. Study focused on resiliency strategies for land planning in the sensitive flood plain areas of Vineyard Haven.

Scajaquada Creek Corridor, Buffalo, NY - Coordinated design and planning effort partnering Buffalo Niagara Waterrkeeper's and student designers from SUNY ESF. Project proposed to daylight existing stream, reestablish habitat in an urban setting, and revitalize a post industrial superblock through smart growth redevelopment.

Creekside Playground Design and Project Implementation - Coordinated community planning process for natural playground through SUNY ESF studio process. Presently working as consultant with community to develop plans and coordinate implementation of playground.

Oneida Flats Planning Study, NY - Utilized community participatory methods to include residents and city in master plan visioning process for flooded neighborhood. Included extensive research, analysis and information sharing.

Oneida Rail Trail Conceptual Plan, NY - Studio based design project: Conceptualization of segments of the proposed Oneida Rail Trail. Project included organized community participation.

GoCaz.com, Economic Development Project, Cazenovia, NY - Creation, coordination and implementation of GoCaz.com, a program to promote outdoor recreational activities in and around the Cazenovia area. Project includes grant writing assistance, interactive GIS website, mobile phone adaptation design, trail mapping, signage design, and marketing.

International Boxing Hall of Fame, Canastota, NY - Created a master plan and wrote a grant that was funded through NYS Economic Development Funds for \$1M. Assisted in securing legislation for site to be turned over from NYS Thruway Authority to LDC.



Kiva VanDerGeest, AICP

Visualization Project Manager

education

Master of Landscape Architecture, State University of New York, College of Environmental Science & Forestry, 2014.

Bachelor of Fine Arts in Illustration & Sculpture, School of the Art Institute of Chicago, 2006.

affiliations

Member, American Planning Association

Thornden Park Association, Tresurer 2014-presnt

employment history

Visualization Project Manager, Environmental Design & Research, Landscape Architecture, Engineering & Environmental Services, D.P.C., 2021-present.

Visualization Specialist, Environmental Design & Research, Landscape Architecture, Engineering & Environmental Services, D.P.C., 2019-2021.

Planner, Cayuga County Department of Planning and Economic Development, 2018-2019

Planner, City of Rome Department of Community and Economic Development, 2016-2018

representative project experience

Energy Project Visual Impact Assessments - Prepared Visual Impact Assessments (VIAs) for commercial wind power and power line projects in Upstate New York. The VIAs present the visual character and significant aesthetic resources within a 5, 10 or 40-mile visual study radius. Viewshed analysis, line-of-sight cross sections, field review, and computer-assisted visual simulations were used to evaluate the potential visibility and visual impact of these projects.

- Apex Heritage Wind
- Flint Mine Solar
- Tobacco Valley Solar Farm
- Morris Ridge Solar

- Horseshoe Solar
- Gowanus Bay Repowering Project
- Sunrise Offshore Wind Farm
- Skipjack Wind

Interstate Route 81 Viaduct Project, City of Syracuse, Onondaga County, NY- Part of the EDR team responsible for the development of visual simulations for the replacement of approximately 5 miles of elevated interstate highway.

City of Rome Grant Project Work – Prior work experience – provided professional services including writing signification portions of the grant applications, and creating preliminary graphic maps for the following projects:

- Round 2 Downtown Revitalization Initiative (DRI):
 - Downtown Centro transportation center
 - o Downtown Wayfinding System Implementation
 - City Hall Programming Enhancements and Public Areas Expansion
 - City Hall Green Enhancement for Year-Round Activity
 - Liberty James Parking Garage Upgrades
 - Liberty George Parking Garage Demolition/ site preparation/ and mixed-use redevelopment
 - Erie Boulevard Streetscape and pedestrian enhancements

- Business Retention and Public Art Fund
- NYSDOT Transportation Alternatives Program (TAP)
 - Construction of Phase II of the Mohawk River Trail
- SMART Walk (Stormwater Management Art Walk)
 - Green Infrastructure enhancements for stormwater runoff
 - Bicycle, pedestrian and streetscape enhancements
 - Development of public arts plaza

Cayuga County - GML 239-I, m&n Review Committee – *Prior work experience* – responsible for reviewing applications for completeness, communicate with communities and proposed developer to assure completeness as well as develop monthly agendas, maps, and other materials for committee use. Additionally, responsible for the development and relay of correspondence with the applicants based on the committee's determination.

Cayuga County - County Wide Planning Board Training Programs - *Prior work experience* - responsible for SEQR training for County Planning Board, ZBA, and Council Board Members, including presentation materials and sample SEQR process materials. Presentations also included Land Use Tools and Techniques: Special Use Permits and Variances.



Steven M. Breitzka, RLA, LEED™ AP

Senior Managing Landscape Architect

education

Bachelor of Science in Landscape Architecture, Cornell University, College of Agriculture and Life Sciences, 1998

professional certification

Registered Landscape Architect: NY# 002507

Certification: LEED™AP – Leadership in Energy & Environmental Design, Associate Professional, U.S. Green Building Council

professional affiliations

Member, American Society of Landscape Architects

Member, U.S. Green Building Council

Member, Town & Village of Tully Planning Board

publications

"Drawing Inspiration" Landscape Architect and Specifier News Volume 27, Number 11, November 2011.

employment history

Senior Managing Landscape Architect, Environmental Design & Research, Landscape Architecture, Engineering & Environmental Services, D.P.C., Syracuse, NY, 2017-present.

Landscape Architect and Project Manager, Environmental Design & Research, Landscape Architecture, Engineering & Environmental Services, D.P.C.. Syracuse, NY, 2012-2017.

Landscape Architect and Senior Associate, RNL, Denver, CO, 2003-2012

Landscape Designer and Office Manager, Douglas Ian Associates, Rochester, NY, 2002-2003.

Landscape Designer, Dufresne-Henry Inc., Boston, Massachusetts, 2000-2002.

Landscape Architect, RNL, Denver, CO, 1998-2000

representative project experience

Energy Project Visual Impact Assessments - Prepared Visual Impact Assessments (VIAs) for commercial wind power and power line projects in Upstate New York. The VIAs present the visual character and significant aesthetic resources within a 5 or 10-mile visual study radius. Viewshed analysis, line-of-sight cross sections, field review, and computer-assisted visual simulations were used to evaluate the potential visibility and visual impact of these projects.

- Block Island Wind
- Copenhagen Wind
- Crown City Wind Farm
- Scioto Ridge Wind Farm
- Wild Meadows Wind Project
- CHG&E A&C Line Article VII
- St. Lawrence Gas Distribution Line
- Aquidneck Island Reliability Project VIA
- Cassadaga Wind Project
- WH1-WH2 Transmission Lines Rebuild
- Incinerator Road

- Galloo Island Wind Project
- Invenergy Transmission Line
- Apex Heritage Wind
- Flint Mine Solar
- National Grid Collamer Road Substation
- Tobacco Valley Solar Farm
- Morris Ridge Solar
- Horseshoe Solar
- Gowanus Bay Repowering Project
- Sunrise Offshore Wind Farm

Emerson Park, Auburn, NY - Coordinated the grant application materials including a boat launch improvement master plan and cost estimate. Alumni Quadrangle New Construction Project, DASNY, Albany State University- Provided site planning and design services to support razing and replacing Waterbury Hall with new alumni commons that will integrate dining, retail, fitness, meeting rooms, social spaces, and a new contemporary residence hall in

a phased approach. Site work shall include relocating and reconfiguring the existing service entrance, loading dock, and utilities to support the new alumni commons and residence hall. LEED™ Silver Base Rating.

Alumni Quadrangle New Construction Project, DASNY, Albany State University - Provided site planning and design services to support razing and replacing Waterbury Hall with new alumni commons that will integrate dining, retail, fitness, meeting rooms, social spaces, and a new contemporary residence hall in a phased approach. Site work shall include relocating and reconfiguring the existing service entrance, loading dock, and utilities to support the new alumni commons and residence hall. LEEDTM Silver Base Rating.

Nappi Longevity Institute, Upstate Medical University, Syracuse, NY - Provided site planning and design services to support development of a new 200,000 SF, 5-story building on an existing surface parking lot. Outdoor spaces include café, meditation garden, labyrinth pavement, drop-off circulation, and back-of-house access. The proposed building will house outpatient treatment facilities. LEED™ Silver Base Rating

Equal Rights Heritage Center, City of Auburn, NY - Managed site planning, design, and engineering services to support development of a new regional welcome center in the South State Street Historic District in Downtown Auburn. The project is located directly across from Memorial City Hall and adjacent to the William H. Seward House Museum (a national historic landmark). It provides a rare opportunity to highlight regional tourism and the agricultural industries.

Southside Park, Veteran's Memorial, City of Binghamton Parks and Recreation, Binghamton, NY - Developed design options to relocate, improve, and expand existing memorial gathering space and memorial bench.

Washington Street Mall, City of Binghamton Parks and Recreation, Binghamton, NY - Designed a renovation for the existing Metrocenter Plaza. The pocket park style space creates a downtown amenity including outdoor dining, lighting, landscape, performance space, and a safe pedestrian environment.

Veterans Service Facility, Broome County DPW, Conklin, NY - Serves as project manager for the project and the main point of contact for EDR. Manages the project timeline, tasking, client communication, monitoring and reporting. EDR services include landscape architecture, civil engineering, site wastewater engineering, cultural resource assessment, and environmental/ecological consulting services.

LA Term Services, City of Binghamton Parks and Recreation, Binghamton, NY - Responsible for managing the EDR team assigned to a term contract for Landscape Architectural Services. EDR is currently providing site planning and design services on an as-needed basis. EDR has been assigned work on: Washington Street – Metrocenter Plaza, Recreation Park Tennis, The Discovery Center, MacArthur Park, Fireman's Memorial, Charles Street Open Space, West End Park, Southside Park – Veteran's Memorial.

One Steamboat Place, Steamboat Springs, CO - *Prior to EDR*, Designed one-acre public outdoor space, outdoor pool and plaza, and overall site for the private "cowboy chic" luxury condominiums at the base of Steamboat Mountain. Developed project from concept design through construction administration. Designed signature site elements including custom lighting and outdoor fireplaces to compliment the distinctive architectural style and unique client flair. Lead Quality Control for the multi-disciplinary site design team.

ATTACHMENT G

VISUAL IMPACT ASSESSMENT GUIDANCE & RATING FORMS

Information and Guidance for Visual Rating Panel Members

For EDR Offshore Visual Impact Assessment Rating Panels

Visual Rating Panel Guidance

Contents

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Visual Rating Panel Guidance

1.0 INTRODUCTION

Thank you for participating in the Visual Impact Assessment (VIA) of the Atlantic Shores Offshore Wind Project (Project) as a visual expert and rating panel member.

As proposed, the Project will be located in federal waters on the Outer Continental Shelf (OCS), in Bureau of Ocean Energy Management (BOEM) Renewable Energy Lease Areas OCS-A 0499 (Lease Area). The proposed wind energy generation facility will be located in the southern portion of the Lease Area, measuring approximately 159.4 sq mi (413 sq km). This area will contain the major visible component of the Project and is henceforth referred to as the Wind Turbine Area (WTA). At its closest point, the WTA is approximately 8.7 mi (14 km) from the New Jersey shoreline as measured from the northernmost edge of Brigantine City in Atlantic County. The WTA is also 9.4 mi (15.1 km) east of Atlantic City, 16.3 mi (26.2 km) east of Ocean City, 25.3 mi (40.7 km) south of Barnegat Light Borough, and 35.7 mi (57.5 km) northeast of Wildwood. The purpose of the Visual Impact Assessment (VIA) is to analyze the potential visibility of the proposed Project and determine the difference in landscape and seascape visual quality between existing and proposed conditions.

The visible components of the offshore Project will include 200 wind turbine generators (WTGs) and five offshore substations (OSS). The VIA considers the largest wind turbine technology currently under consideration for the Project, which includes WTGs with a rotor diameter of 919 feet, hub height of 574 feet and a total height of 1,047 feet with the rotor blade in the full upright position. The OSSs will include four substations measuring 31,484 square feet and 189 feet tall as well as one substation measuring 48,438 square feet and 205 feet tall.

The potential visual impact associated with the Project will be evaluated using a modified version of the *U.S. Army Corps of Engineers' (USACE) Visual Resource Assessment Procedure* (VRAP)¹. This will include the evaluation of key observation points (KOPs) within the visual study area (VSA) with and without the project in place. The modifications to the VRAP process are described Section 2.2 of this document. To make this pre- and post-installation comparison the rating panel members will provide a scenic quality score for the existing conditions photograph and then score again separately for the visual simulation illustrating the Project in place. The scenic quality score applied to the existing conditions photograph will result in a Scenic Quality Classification (SQC) which will, in turn, apply a threshold of acceptable visual impact to the KOP (see Table 2-1). If the proposed conditions simulation results in a decrease in visual quality that either exceeds the threshold and/or reduces the SQC category, the Project is expected to result in visual impacts to that KOP.

In addition to the VRAP rating process, EDR also included a means to assess the visual threshold level (VTL), which measures the Projects visual prominence that is described in *Offshore Wind Turbine Visibility and*

¹ Smardon, R.C., J.F. Palmer, A. Knopf, K. Grinde, J.E. Henderson and L.D. Peyman-Dove. 1988. Visual Resources Assessment Procedure for U.S. Army Corps of Engineers. Instruction Report EL-88-1. Department of the Army, U.S. Army Corps of Engineers. Washington, D.C.

Visual Rating Panel Guidance

Visual Impact Threshold Distances². This analysis is included as a supplement to the VRAP process and will be used to inform the degree of potential visual impact associated with the Project.

2.0 RATING PANEL INSTRUCTIONS

2.1 Project Introduction

Using the provided introductory material (See Section 2.4 and Table 2-3) rating panel members should take a few moments to review the VSA and general location of the KOPs.

- a) Google Earth file of the Project, VSA, and KOPs
- b) Review landscape similarity zones (LSZ) map and descriptions to become familiar with the LSZ's present within the VSA.
- c) Review visually sensitive resources (VSRs) considering the resource, its viewers, and their sensitivity to visual change.

2.2 KOP Rating

Step 1 – KOP Familiarization (Rating Form Page 1 and 2 of 6)

KOP Familiarization includes a series of questions designed to familiarize you with the existing conditions present at each KOP. These include the identification and description of focal points, order, visual clutter, movement, duration of view, atmospheric conditions, lighting direction, and scenic, historic or recreational value. The following steps are required in order to complete this portion of the visual impact rating forms:

- a) The simulations provided to each panel member have a contextual cover sheet (Sheet 1). This sheet contains a large panorama view from the KOP position along with an inset or on occasion multiple insets defining the simulation field of view. Additionally, the context sheet includes a regional context map and a local context map, information about the location of the simulation, distance from the Project, landscape similarity zone (LSZ), user group, and any visually sensitive resources represented by the KOP. Each simulation set will also include a prescribed Google Earth tour, but users may also desire to complete their own walking tour/fly-through.
- b) Rating panel members shall thoroughly examine the contextual information described above and complete the Google Earth tour of the KOP and the surrounding landscape, making note of visibility to the seascape and/or surrounding landscape or built features as the viewer approaches the KOP.
- c) Based on review of the contextual information, the rating panel member shall record initial reactions to the KOP by recording reactions to the questions relating to the "Principles of Composition" and "Factors Affecting Visual Impact". (Pages 1 and 2 of the VIA Rating forms).

² Sullivan Robert G., Kirchler Leslie B., Cothren Jackson, Winters Snow L. *Offshore Wind Turbine Visibility and Visual Impact Threshold Distances*. Argonne National Laboratory, Argonne, IL, 2012.

Visual Rating Panel Guidance

Step 2: Scenic Quality Classification (Rating Form Page 3 of 6)

The VRAP process typically involves a two-step approach beginning with the Management Classification System (MCS) followed by the VIA rating. However, given the nature of offshore wind projects, which occur outside of the managed landscape, the VRAP methodology has been adapted by EDR to remove the MCS portion of the rating system and apply the scoring system to the existing conditions view. As such, EDR has renamed the MCS portion to the Scenic Quality Classification (SQC). The SQC uses the same MCS terminology and scoring and is used to establish a baseline scenic quality level and a threshold for acceptable visual impacts (see Table 2-1). This also eliminates the process that averages potential impacts across an entire LSZ. Rather, the thresholds are applied directly to the existing conditions at each individual KOP.

The Scenic Quality Classification consists of the following approach:

The visual impact rating form for the existing conditions is include on Page 3 of 6. The following steps are required to establish a SQC for each KOP:

- a) Rating panel member shall review the existing condition photographs from the selected KOPs along with regional information, including LSZs, Visually Sensitive Resources (VSRs), and distance from the Project (completed in Step 1 KOP Familiarization).
- b) Next, use professional aesthetic judgment to assess the visual quality of the KOP's existing condition and assign a numerical assessment value to each of the contributing factors (water resources, landform, vegetation, land use, and user activity).
 - i. Rating panel members are requested to use whole numbers to score each of the contributing factors unless a resource is not present, in which case a score of 4.5 should be applied. For example, when evaluating the contributing factor of Vegetation, however, no vegetation is visible in the simulation specific view, then vegetation should be assigned a score of 4.5 thereby nullifying its impact on the composite score average.

The numerical assessment values provided by individual rating panel members will be averaged and a composite assessment score will be established for each category. Based on the composite score each KOP is assigned to a corresponding SQC, which defines the degree and nature of visual change acceptable for that KOP. Rating panel members should enter numerical results into the digital PDF rating form that will compile necessary totals for each KOP. EDR will enter individual scores to a separate database to verify result accuracy.

Visual Rating Panel Guidance

Step 3: VIA Evaluation (Rating Form Page 4 of 6)

The VIA evaluation consists of the following approach:

The visual impact rating form for the proposed conditions is include on Page 4 of 6. The following steps are required to establish a SQC for each KOP:

- a) The rating panel member shall review simulations of the proposed Project from each KOP.
- b) Use professional aesthetic judgement to assess the selected KOP with the proposed Project in place. Assign a numerical value to each of the contributing factors considering the proposed conditions at that KOP.
 - Rating panel members shall use whole numbers to score each of the contributing factors/resources unless a resource is not present, in which case a score of 4.5 should be applied.

Step 4: VIA Evaluation – Compatibility and Contrast Rating (Rating Form Page 5 of 6)

- a) The visual impact rating form for the compatibility and contrast rating is include on Page 5 of 6. The following steps are required to establish a compatibility rating for each KOP: The rating panel member shall assign visual Contrast Rating scores to each category comparing the Project in place to the surrounding landscape as a means to evaluate its compatibility, scale contrast, and spatial dominance within the study area (see Table 2-2). Refer to the definitions listed in Section 2.3 to assist with terminology presented in the form.
- b) Rating panel members shall use whole numbers to score each of the contributing factors/resources, however, on this form if elements are missing from the view, the score should be 0, which removes its inclusion in the averaged score.

Step 5: VIA Evaluation – Visibility Threshold Level (Rating Form Page 6 of 6)

The visual impact rating form for the visibility threshold rating is include on Page 6 of 6. The following steps are required to establish a threshold rating for each KOP:

- a) Check the VTL box that best reflects the degree of visibility and visual prominence of the Project at each KOP. The VTLs are described in detail in Table 2-3, below.
- b) Rating panel members shall check a box next to the most appropriate VTL description, which will then correlate to a threshold rating score that will be tallied and averaged across the rating panel responses.

Visual Rating Panel Guidance

2.3 Definitions and Tables

Conditions Rating

Distinct – Something that is considered unique and is an asset to the area. It is typically recognized as a visual/aesthetic asset and may have many positive attributes. Diversity and variety are characteristics in such a resource.

Average – Something that is common in the area and not known for its uniqueness, but rather is representative of the typical landscape of the area.

Liability – Something that lacks any positive aesthetic attributes and may actually diminish the visual quality of surrounding areas.

Contrast Rating

Dominant – The modification is the major object or area in the confined setting and occupies a large part of the setting.

Co-Dominant – The modification is one of the major objects or areas in a confined setting, and its features are of equal visual importance.

Subordinate – The modification is insignificant and occupies a minor part of the setting.

Factors to be Considered During the Visual Evaluation

Landscape/Seascape, viewer, and Project-related factors that rating panel members should consider in their evaluation of visual impact should include the following:

- Landscape/Seascape Composition: The arrangement of objects and voids in the landscape and/or seascape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions, especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or ephemeral landscapes.
- Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.
- **Spatial Dominance:** The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint.
- **Project Scale:** The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale within the existing seascape. Perception of project scale

Visual Rating Panel Guidance

is likely to vary depending on the distance from which it is seen and other contextual factors.

- **Focal Point:** Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape.
- **Order:** Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/development. Elements in the landscape/seascape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.
- Visual Clutter: Numerous unrelated built elements occurring within a view can create visual clutter (disrupting the natural order), which generally has an adverse effect on scenic quality.
- **Movement:** Motion of existing and proposed elements in a view can attract viewer attention.
- Duration of View: Some views are seen as quick glimpses while driving along a roadway
 or hiking a trail, while others are seen for a more prolonged period of time such as riding
 a ferry or water taxi. Longer duration views of a project, especially from significant aesthetic
 resources, have the greatest potential for visual impact.
- **Atmospheric Conditions:** Clouds, precipitation, haze, and other ambient air-related conditions which affect the visibility of an object or objects. These conditions can greatly impact the visibility and contrast of landscape/seascape and project components and the design elements of form, line, color, texture, and scale.
- **Lighting Direction:** Backlighting refers to a viewing situation in which sunlight is coming toward the observer from behind a feature or elements in a scene. Front lighting refers to a situation where the light source is coming from behind the observer and falling directly upon the area being viewed. Side lighting refers to a viewing situation in which sunlight is coming from the side of the observer to a feature or elements in a scene. Lighting direction can have a significant effect on the visibility and contrast of landscape/seascape and project elements.
- Scenic or Recreational Value: Designation as a scenic, historic or recreational resource is an indication that there is broad public consensus on the value of that particular resource.

Visual Rating Panel Guidance

KOP – Key Observation Point

Geographic positions within the visual study area that have views toward the Project and were considered for the development of visual simulations.

LSZ - Landscape Similarity Zones

Within the regional landscape, LSZs are established to provide a more specific framework within which to define and evaluate the visual resources of a study area. An LSZ represents a specific landscape type or setting that has common characteristics of landform, water resources, vegetation/ecosystems, land use, and user activity. As opposed to the diversity that can exist within the Regional Landscape, an LSZ has a fairly homogeneous, unified visual character. It should be apparent that the size of the zones and the level of detail with which they are defined can vary over a wide range. Prior to considering a project, judgments are made on the existing visual quality of the LSZs using the inventory and assessment of each zone's visual resources.

VSA – Visual Study Area

The visual study area is within a 40-mile radius of the offshore wind turbines. This represents a reasonable area beyond which the physical ability to see the Project diminishes such that visual impacts are no longer possible under typical viewing conditions.

VSR - Visually Sensitive Resources

For each KOP, nearby VSRs will be identified and summarized. The VSRs may include State Parks, National Register Historic Properties, National Historic Landmarks, or other resources officially designated as unique, scenic, or protected/designated specifically for the use and enjoyment by the public.

VTL - Visibility Threshold Level & Visual Prominence

Offshore Wind Turbine Visibility and Visual Impact Threshold Distances (Sullivan et.al., 2013) lists six VTLs that were used to rate the visual prominence of several operational offshore wind farms in Europe. The six VTLs are described below. Rating panel members will check a box next to the appropriate VTL description, which will then assign a set whole number VTL to each set of visual simulations from each KOP (Rating Form Page 6 of 6). The VTL score will be averaged across all panel members and rounded to the nearest whole-number VTL score. Visual prominence and the resultant VTL score may not necessarily influence visual impact scores. However, there is a strong correlation between high VTL's and elevated visual impacts. The VTL score will be used to describe the degree of potential visual impact based on the SQC assigned to each KOP.

Visual Rating Panel Guidance

Table 2-1 Scenic Quality Classification (SQC)

Scenic	Total	Acceptable	
Quality	Assessment	Impact	
Classification	Value	Threshold	Description
Preservation	17 & above	0	These areas are considered to be unique and to have the most distinct visual quality in the region. They are highly valued and are often protected by Federal and State policies and laws. These areas include wilderness areas, some natural areas, portions of wild and scenic rivers, historic sites and districts, and similar situations where changes to existing resources are restricted. While limited project activity is not precluded, it should not be readily evident. Structures, operations, and use activities should appear to be extensions of the protected resource and should faithfully represent, repeat, or reinforce the visual character of that resource.
Retention	14-16	-2	These areas are regionally recognized as having distinct visual quality but may not be institutionally protected. Project activity may be evident but should not attract attention. Structures, operations, and use activities should remain subordinate to the existing visual resources and should repeat the form, line. color, texture, scale and composition characteristics of the resource.
Partial Retention	11-13	-5	These areas are locally valued for above average visual quality but are rarely protected by institutional policies. Project activity may be evident and begin to attract attention. Structures, operations, and use activities should remain subordinate to the existing visual resources. Form, line, color, texture, scale, and composition may differ from but should be compatible with the visual characteristics of the existing resource.
Modification	8-10	-6	These areas are not noted for their distinct qualities and are often considered to be of average visual quality. Project activity may attract attention and dominate the existing visual resource. Structures, operations, and use activities may display characteristics of form, line, color, texture, scale, and composition that differ from those of the existing visual resources. However, the project should exhibit good design and visual compatibility with its surroundings.
Rehabilitation	7 & Below	-8	These areas are noted for their minimal visual quality and are often considered blighted areas. Project activity should alter the existing undesirable visual resources. Structures, operations, and use activities should exhibit good design and display characteristics of form, line, color, texture, scale, and composition that contribute to making the area compatible with the visual character of adjacent higher quality landscapes.

Visual Rating Panel Guidance

Table 2-2 Compatibility and Contrast Ratings

Modifier	Definition	Rating
Spatial dominance	The prevalent occupation of a space in a land scape by an object(s) or landscape element. Spatial dominance can be described in terms of being Dominant, Co-dominant, or Subordinate.	Dominantthe modification is the major object or area in a confined set ting and occupies a large part of the setting. Co-dominantthe modification is one of the major objects or areas in a con fined setting, and its features are of equal visual importance. Subordinatethe modification is insignificant and occupies a minor part of the setting.
Scale contrast	The difference in absolute or relative scale in relation to other distinct objects or areas in the landscape. Scale contrast can be described in terms of being Severe, Moderate, or Minimal.	Severethe modification is much larger than the surrounding objects. Moderatethe modification is slightly larger than the surrounding objects. Minimalthe modification is much smaller than the surrounding objects.
Compatibility	The degree to which landscape elements and characteristics are still unified within their setting. Compatibility can be described. in terms of being Compatible, Somewhat Compatible.	CompatibleThe modification is harmonious within the setting. Somewhat CompatibleThe modification is more or less harmonious within the setting. Not CompatibleThe modification is not harmonious within the setting.

Visual Rating Panel Guidance

Table 2-3 Visibility Threshold Level (VTL)

Visibility Rating	Description
Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.
Visibility level 2 . Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.
Visibility level 3 . Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/seascape elements.
Visibility level 4 . Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.
Visibility level 5 . Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to strong contrasts in form, line, color, and texture, bright light sources such as lighting and reflections! and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements.
Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by turning one's head more than 45 degrees from a direct view of the object. The object/phenomenon is the major focus of visual attention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, color, and texture, bright light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.

Visual Rating Panel Guidance

2.4 Material Provided to the Rating Panel

The Project and KOP familiarization material and rating forms are detailed below in Table 2-3.

Table 2-4 Materials Provided to the Rating Panel

Item	Content		
General Project Information -	to be provided at the Project introduction		
Rating Panel Guidance	Introduction to the Project		
	Definition of Terms used		
	Instructions for Visual Rating Panel		
LSZ Information	Mapped location and description of LSZ within the VSA		
Location File	A Google Earth file that illustrates the VSA, KOPs, and Project Components		
Information for each KOP – to be provided as information data sets during the visual rating process			
KOP Simulation Set	Context Page with panorama and KOP-specific information		
	Existing Project conditions photograph(s)		
	Proposed Project conditions simulation(s)		
Tour File	Google Earth file, providing a tour that provides and overview of the KOP		
	location relative to the Project and a walking tour that illustrates the		
	typical approach to the KOP.		
Rating Panel Forms	Familiarization Form		
	Existing Conditions/Scenic Quality Classification (SQC) Form		
	Proposed Conditions Form		
	Contrast Rating Form		
	Visibility Threshold Level Form		

Date:	Personnel:
Landscape Similarity Zone:	Key Observation Point Name/Number:
Key Observation Point (KOP) Familiariza	tion
Landscape/seascape, viewer, and related factors to be consid	ered during evaluation of the KOP are outlined below.
The effect of the proposed Project on these factors should be (proposed conditions). (This form is intended to record initial of	incorporated into the scoring and comments on the VIA assessment form observations and should be completed quickly, taking no more than 5 minutes)
General elements of formal visual analysis to be cons	sidered include:
their spatial arrangement. Basic landscape compone	nent of objects and voids in the landscape that can be categorized by ints include vegetation, landform, water, and sky. Some compositions, etailed, or feature-oriented, are more vulnerable to modifications than
of a landscape/seascape, as well as a project. Form edge, outline, and surrounding space. Line refers to to rexture, usually evident as the edges of shapes or the visual surface characteristics of an object. The expension	major compositional elements that define the perceived visual character refers to the shape of an object that appears unified, often defined by the path the eye follows when perceiving abrupt changes in form, color, masses in the landscape/seascape. Texture, in this context, refers to ktent to which form, line, color, and texture of a project are similar to or adscape/seascape is a primary determinant of visual impact.
Spatial Dominance: The degree to which an object and thus dominates seascape composition from a sp	or landscape/seascape element occupies space in a landscape/seascape ecific viewpoint.
	ect in relation to its surroundings can define the compatibility of its scale cale is likely to vary depending on the distance from which it is seen and
Principles of composition to be considered inclu	de:
1. Focal Point	
physical characteristics. Focal points often contrast tend to draw a viewer's attention. Examples include	eatures stand out and are particularly noticeable as a result of their with their surroundings in color, form, scale, or texture, and therefore prominent trees, mountains, or cultural features, such as a distinctive of the sited so as to obscure or compete with important existing focal points
Does this view contain a focal point? \square Yes	□ No
If yes, briefly identify/describe:	
2. Order	
by displaying traditional or logical patterns of land us this natural order may detract from scenic quality. W	order determined by natural processes. Cultural landscapes exhibit order se/development. Elements in the landscape that are inconsistent with /hen a new project is introduced to the landscape, intactness and order ines, colors, and textures existing in the surrounding built or natural
Does this view contain a natural order?	es No



If yes, how does the natural order affect the view?

isual Impact Assessment	Personnel:
•	KOP:
Principles of composition, continued:	Date:
3. Visual Clutter	
Numerous unrelated built elements occurring within a view can create vis adverse effect on scenic quality.	ual clutter (disrupting the natural order), which generally has an
Does this view contain elements that contribute to visual clutter?	Yes No
If yes, how does the visual clutter affect the view?	
4. Movement	
Motion of existing and proposed elements in a view can attract viewer atte	ention.
Does this view contain elements in motion that are likely to attract vie	ewer attention?
(If the answer is yes, Note these elements in rating form comments)	
Factors affecting visual impact:	
5. Duration of View	
Some views are seen as quick glimpses while driving along a roadway o of time. Longer duration views of a project, especially from significant ae	
The duration of this view is: Short Term/Fleeting Long-term	m
The frequency of this view is: \square Repeated \square Occasional	
6. Atmospheric Conditions	
Clouds, precipitation, haze, and other ambient weather-related condition can greatly impact the visibility and contrast of project components with line, color, texture, and scale.	
Conditions in this view can be described as: Clear Partly C	Cloudy Overcast Hazy
Conditions that may increase/decrease visibility could be described	as:
7. Lighting Direction	
Backlighting refers to a viewing situation in which sunlight is coming toward Front lighting refers to a situation where the light source is coming from by viewed. Side lighting refers to a viewing situation in which sunlight is confident elements in a scene. Lighting direction can have a significant effect on the	behind the observer and falling directly upon the area being ning from overhead or the side of the observer to a feature or
The relevant lighting condition can be described as: backlit backlit	frontlit side-lit
8. Scenic or Recreational Value	
Designation as a scenic or recreational resource is an indication that the resource. The characteristics of the resource that contribute to its scenic visual impact on that resource.	

Would viewers consider this location a valued scenic or recreational resource? \square Yes \square No

How would the site be used for scenic or recreational enjoyment?



Personnei:	
KOP:	
Data	

Existing Conditions

1. In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1 liability to 9 distinct)

Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score

be a whole number score.	
	Score
Water Resources:	
Landform:	
Vegetation:	
Land Use:	
User Activity:	
Existing Conditions #1 Total:	0
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high density)	
Special Condition A. Does this zone contain any scenic, cultural, or historic landmarks?	
Special Condition B. Are there other aesthetic elements that add to this resource?	
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/pollution)	
Special Condition C. Is this zone free from pollution and/or litter?	
Existing Conditions #2 Total (Sum 2A through 2C)	0
Existing Conditions Grand Total (Sum #1 Total and #2 Total) 3. Comments:	0



Personnel:_	
KOP:_	
Date:_	

Proposed Conditions

1. With the proposed project in place, rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1 liability to 9 distinct)		
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Score
Water F	Resources:	
	Landform:	
\	/egetation:	
	Land Use:	
Us	er Activity:	
2. Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct) Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can be adjusted up or down based upon the Proposed Conditions view. Special Conditions View.	Conditions:	
	Total:	0

3. Comments:



Visual Impact Assessment

Personnel:_	
KOP:_	
Date:_	

Proposed Conditions - Compatibility and Contrast Rating

	element is not uld be a whole i	present in the view the score should be a 0 number score.	(no impact), otherwise
4. Rate the compatibility of the proposed project on a	a scale of 1 to	3 (1 compatible to 3 not compatible)	
Water Resources:		Land Use:	
Landform:		User Activity:	
Vegetation:		Total:	0
5. Rate scale contrast of the proposed project on a s	cale of 1 to 3 (1 minimal to 3 severe)	
Water Resources:		Land Use:	
Landform:		User Activity:	
Vegetation:		Total:	0
6. Rate spatial dominance of the proposed project or	n a scale of 1 t	o 3 (1 subordinate, 2 co-dominant, 3 don	ninant)
Water Resources:		Land Use:	
Landform:		User Activity:	
Vegetation:		Total:	0

7. Comments:



Personnel:_	
KOP:_	
Date:_	

Proposed Conditions

8. Visibility Threshold Level - Check the box next to the description that most closely describes the visual prominence of the Project from the selected KOP.

Vicibility Poting	Description	
Visibility Rating	Description	
Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	
Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to strong contrasts in form, line, color, and texture, bright light sources such as lighting and reflections! and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	
Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by turning one's head more than 45° from a direct view of the object. The object/phenomenon is the major focus of visual attention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, color, and texture, bright light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.	

9. Comments:



/isual Impact Assessment		Visual Impact Assessment	Personnel: Jocelyn Gavitt
•	- Josephin Covitt		KOP: AC02 Jim Whelan Bo
Date: 2/25/21	Personnel: <u>Jocelyn Gavitt</u>	Principles of composition, continued:	Date: 2/25/21
andscape Similarity Zone: Atlantic City	Key Observation Point Name/Number: AC02 Jim Whelan	S. Visual Glutter	
(ey Observation Point (KOP) Familiarizat	ion	Numerous unrelated built elements occurring within a view can create visual cli adverse effect on scenic quality.	, , ,
andscape/seascape, viewer, and related factors to be consider	red during evaluation of the KOP are outlined below.	Does this view contain elements that contribute to visual clutter?	es 🔲 No
	corporated into the scoring and comments on the VIA assessment for servations and should be completed quickly, taking no more than 5 min	nutes)	ome the focus of the view.
proposed containone). (This form to monace to record militar of	our rations and another so completed quietly, taking no more than o mil	4. Movement	
General elements of formal visual analysis to be considered	dered include:	Motion of existing and proposed elements in a view can attract viewer attention	
their spatial arrangement. Basic landscape component	nt of objects and voids in the landscape that can be categorized by is include vegetation, landform, water, and sky. Some compositions, called, or feature-oriented, are more vulnerable to modifications than	Does this view contain elements in motion that are likely to attract viewer a (If the answer is yes, Note these elements in rating form comments)	attention? ☑ Yes ☐ No
panoramic, canopied, or ephemeral landscapes.	alled, or leature-oriented, are more vulnerable to modifications than		
	najor compositional elements that define the perceived visual characte	Factors affecting visual impact:	
	efers to the shape of an object that appears unified, often defined by e path the eye follows when perceiving abrupt changes in form, color,	5. Duration of View	
or texture, usually evident as the edges of shapes or m	nasses in the landscape/seascape. Texture, in this context, refers to	Some views are seen as quick glimpses while driving along a roadway or hikir of time. Longer duration views of a project, especially from significant aestheti	ng a trail, while others are seen for a more prolonged period c resources, have the greatest potential for visual impact.
contrast with these same elements in the existing land	ent to which form, line, color, and texture of a project are similar to or scape/seascape is a primary determinant of visual impact.	The duration of this view is: ☐ Short Term/Fleeting ☑ Long-term	
 Spatial Dominance: The degree to which an object or and thus dominates seascape composition from a spe 	landscape/seascape element occupies space in a landscape/seascap cific viewpoint.	The frequency of this view is: Repeated Occasional	
	ct in relation to its surroundings can define the compatibility of its scale le is likely to vary depending on the distance from which it is seen and		
Principles of composition to be considered include	e:	Conditions in this view can be described as: 🗹 Clear 🗖 Partly Cloudy	Overcast Hazy
1. Focal Point		Conditions that may increase/decrease visibility could be described as: N	fore moisture in the atmosphere would likely decrease isibility
	tures stand out and are particularly noticeable as a result of their their surroundings in color, form, scale, or texture, and therefore	7. Lighting Direction	Sibility
tend to draw a viewer's attention. Examples include pi lighthouse. If possible, a proposed project should not in the landscape/seascape.	rominent trees, mountains, or cultural features, such as a distinctive be sited so as to obscure or compete with important existing focal poin	Backlighting refers to a viewing situation in which sunlight is coming toward th Front lighting refers to a situation where the light source is coming from behind viewed. Side lighting refers to a viewing situation in which sunlight is coming dements in a scene. Lighting direction can have a significant effect on the visi	d the observer and falling directly upon the area being rom overhead or the side of the observer to a feature or
Does this view contain a focal point? Yes			
If yes, briefly identify/describe: A building that protruct	les in to the water.	The relevant lighting condition can be described as: backlit fronti	it 🗸 side-lit
2. Order			
by displaying traditional or logical patterns of land use this natural order may detract from scenic quality. Wh	der determined by natural processes. Cultural landscapes exhibit orde (development. Elements in the landscape that are inconsistent with en a new project is introduced to the landscape, intactness and order is, colors, and textures existing in the surrounding built or natural	 Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that there is t resource. The characteristics of the resource that contribute to its scenic or revisual impact on that resource. 	
Does this view contain a natural order? Yes If yes, how does the natural order affect the view		Would viewers consider this location a valued scenic or recreational resource:	? ✓ Yes ☐ No
There is a natural layering of built shoreline, beach, water a	nd open sky.	How would the site be used for scenic or recreational enjoyment? This is bear	ch front destination for a large population.
ATLANTIC SHORES offshore wind		1 of 6 ATLANTIC SHORES offshore wind	20

ATLANTIC SHORES offshore wind	1 of 6	ATLANTIC SHORES offshore wind		2 of 6
Visual Impact Assessment Personnel: Joe KOP: ACC	elyn Gavitt 02 Jim Whelan Bo	Visual Impact Assessment	Personnel: <u>Jocelyn Gav</u> KOP: AC02 Jim W	
Existing Conditions 1. In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1 liability to 9 distinutions).	5/21	Proposed Conditions	Date: 2/25/21	
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.	ct)	With the proposed project in place, rate the aesthetic quality/sensitivity of each r Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.	esource on a score of 1 to 9 (1 liability to 9	Score
Water Resour	Score 8		Water Resources:	1
Landfo	orm: 5		Vegetation:	4.5
Vegetal			Land Use:	3
Land t User Acti			User Activity:	2
Existing Conditions #1 To 2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high density) Special Condition A. Does this zone contain any scenic, cultural, or historic landman	otal: 30.5	Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct) Note: Special Conditions score is taken directly from Existing Conditions #2 Total and car be adjusted up or down based upon the Proposed Conditions view.	n Special Conditions:	3
Special Condition B. Are there other aesthetic elements that add to this resour Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/pollution)	rce? 1		Total:	16.5
Special Condition C. Is this zone free from pollution and/or life	itter?	3. Comments:		
Existing Conditions #2 Total (Sum 2A through	2C) 5	The simulated view shows an enormous field of turbines in the ocean in close enough proxim the existing open water views. The number and proximity of the visible turbines creates a kin significant impact on the character and aesthetic of the area.		
Existing Conditions Grand Total (Sum #1 Total and #2 To 3. Comments:	otal) 35.5			
This is a highly used, highly populated beach front area that has open water views. The existing infrastructure along the beach cap as would the activity of the many users of this area. This scene is dominated by a large building that breaks through the beach line				



Visual Impact Assessment Personnel: Jocelyn Gavitt KOP: AC02 Jim Whelan Bo Date: 2/25/21 **Proposed Conditions - Compatibility and Contrast Rating** Note: If an element is not present in the view the score should be a 0 (no impact), otherwise, rating should be a whole number score. 4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible) Water Resources: Land Use: 3 3 Landform: 3 User Activity: 3 Vegetation: Total: 12 5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) Water Resources: 3 Land Use: Landform: 2 User Activity: Vegetation: 0 Total: 11 6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominant) Water Resources: Land Use: 3 Landform: User Activity: 3 Vegetation: Total: 0 12 7. Comments:

ATLANTIC SHORES offshore wind

This proposed field of turbines completely dominates the view and experience at this highly used beach location.

Visual Impact Assessment

Personnel: <u>Jocelyn Gavitt</u>

KOP: <u>AC02 Jim Whelan Boo</u>

Date: 2/25/21

Proposed (onditions
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8. Visibility Threshold Level - Check the box next to the description that most closely describes the visual prominence of the Project from the selected KOP.

Visibility Rating	Description	
Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more loosely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscaper seascape elements.	
Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so rooting that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to strong contrasts in form, line, color, and texture, bright light sources such as lighting and reflections? and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual promisence of the study subject interferes noticeably with views of nearby landscape/sesscape elements.	
Visibility level 6. Dominates the view because the study subjects its most of the views in its general direction. Strong contrasts in form, line, cotor, texture, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by turning one's head more than 45° from a direct view of the object. The object/phenomenon is the major fous of visual aftention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, color, and texture, hight light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.	√

9. Comments:

5 of 6

The proposed conditions are dominant to the extent that they completely change the character of the view.



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Visual Impact Assessment	
Date: 23 February 2021	Personnel: KAC
Landscape Similarity Zone: <u>Atlantic City</u>	Key Observation Point Name/Number: <u>AC02 JW Boardwalk</u>
Key Observation Point (KOP) Familiarizati	on
Landscape/seascape, viewer, and related factors to be consider	ed during evaluation of the KOP are outlined below.
	corporated into the scoring and comments on the VIA assessment form servations and should be completed quickly, taking no more than 5 minutes)
General elements of formal visual analysis to be considered	lered include:
their spatial arrangement. Basic landscape components	nt of objects and voids in the landscape that can be categorized by include vegetation, landform, water, and sky, Some compositions, illed, or feature-oriented, are more vulnerable to modifications than
of a landscape/seascape, as well as a project. Form re edge, outline, and surrounding space. Line refers to the or texture, usually evident as the edges of shapes or m the visual surface characteristics of an object. The exte	ajor compositional elements that define the perceived visual character fers to the shape of an object that appears unified, often defined by path the eye follows when perceiving abrupt changes in form, color, asses in the landscape/seascape. Texture, in this context, refers to int to which form, line, color, and texture of a project are similar to or scape/seascape is a primary determinant of visual impact.
 Spatial Dominance: The degree to which an object or and thus dominates seascape composition from a spec 	landscape/seascape element occupies space in a landscape/seascape cific viewpoint.
 Project Scale: The apparent size of a proposed projec within the existing seascape. Perception of project scal other contextual factors. 	t in relation to its surroundings can define the compatibility of its scale e is likely to vary depending on the distance from which it is seen and
Principles of composition to be considered include	2:
1. Focal Point	
physical characteristics. Focal points often contrast will tend to draw a viewer's attention. Examples include pr	tures stand out and are particularly noticeable as a result of their th their surroundings in color, form, scale, or texture, and therefore ominent trees, mountains, or cultural features, such as a distinctive se sited so as to obscure or compete with important existing focal points
Does this view contain a focal point? ✓ Yes	
If yes, briefly identify/describe: Shopping center, (6) b	ig screens, beach activities, piers, ocean and horizon.
2. Order	
by displaying traditional or logical patterns of land use, this natural order may detract from scenic quality. Whe	Jer determined by natural processes. Cultural landscapes exhibit order (development. Elements in the landscape that are inconsistent with en a new project is introduced to the landscape, intactness and order is, colors, and textures existing in the surrounding built or natural
Does this view contain a natural order? Yes If yes, how does the natural order affect the view?	
The natural order of beach to ocean to sky is interrupted by the entire seascape.	the large man-made structures that jut into the ocean and obstructs the clear view to

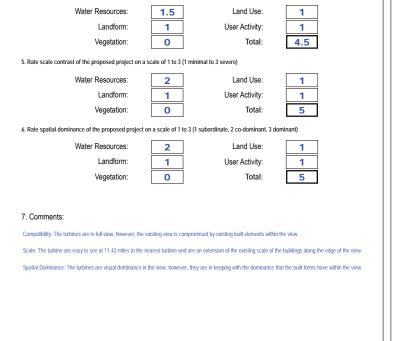
Visual Impact Assessment	Personnel: KAC
	KOP: ACO2 JW Boardwalk
Principles of composition, continued:	Date: <u>23 February 2021</u>
Visual Clutter Numerous unrelated built elements occurring within a view of adverse effect on scenic quality.	can create visual clutter (disrupting the natural order), which generally has an
Does this view contain elements that contribute to visua	al clutter? 🗹 Yes 🗆 No
	e Playground Pier shopping mall is both visual clutter and visually incongruent with
4. Movement	e anticipated beach experience. The building is a visual obstruction.
Motion of existing and proposed elements in a view can attra	act viewer attention.
Does this view contain elements in motion that are likel	y to attract viewer attention?
(If the answer is yes, Note these elements in rating form	n comments)
Factors affecting visual impact:	
	g a roadway or hiking a trail, while others are seen for a more prolonged period significant aesthetic resources, have the greatest potential for visual impact.
The duration of this view is: Short Term/Fleeting	✓ Long-term
The frequency of this view is: 🗹 Repeated 🗆 Oc	casional
	ated conditions can affect the visibility of an object or objects. These conditions ponents with landscape/seascape elements and the design elements of form,
Conditions in this view can be described as: Clea	r 🗹 Partly Cloudy 🗖 Overcast 🗹 Hazy
Conditions that may increase/decrease visibility could	be described as: Clearer atmospheric conditions would increase the detail of the turbines on the horizon.
7. Lighting Direction	
Front lighting refers to a situation where the light source is viewed. Side lighting refers to a viewing situation in which s	s coming toward the observer from behind a feature or elements in a scene. coming from behind the observer and falling directly upon the area being sunlight is coming from overhead or the side of the observer to a feature or nt effect on the visibility and contrast of landscape and project elements.
The relevant lighting condition can be described as:	backlit ☐ frontlit ☑ side-lit
8. Scenic or Recreational Value	
	cation that there is broad public consensus on the value of that particular e to its scenic or recreational value provide guidance in evaluating a project's
Would viewers consider this location a valued scenic or rec	creational resource? 🗹 Yes 🔲 No
How would the site be used for scenic or recreational enjoy	ment? Atlantic City Beach, Atlantic City Convention Hall

1 of 6

ATLANTIC SHORES

Visual Impact Assessment	Personnel: KAC		Visual Impact Assessment	Personnel: KAC	
	KOP: <u>AC02 JW Bo</u>	oardwalk	'	KOP: ACO2 JW Boa	<u>rdwalk</u>
Existing Conditions	Date: 23 February	2021	Proposed Conditions	Date: 23 February 2	1021
In the existing view rate the aesthetic quality/sensitivity of each resource on a sco	re of 1 to 9 (1 liability to 9 distinct)		With the proposed project in place, rate the aesthetic quality/sensitivity of each	resource on a score of 1 to 9 (1 liability to 9 di	istinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), of	herwise, rating should		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact),		Score
be a whole number score.		Score	otherwise, rating should be a whole number score.	Water Resources:	
	Water Resources:	Score		Water Resources.	5
		6		Landform:	5
	Landform:	5		Vegetation:	4.5
	Vegetation:	4.5		Land Use:	5
	Land Use:	5		User Activity:	5
	User Activity:	5			
ı	Existing Conditions #1 Total:	25.5	Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct) Condition of the conditions of the condition of	_	
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being h	nigh density)		Note: Special Conditions score is taken directly from Existing Conditions #2 Total and ca be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	3
Special Condition A. Does this zone contain any scenic, or	cultural, or historic landmarks?	1			3
Special Condition B. Are there other aesthetic elements	ents that add to this resource?	1		Total:	27.5
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of	of litter/pollution)				27.5
Special Condition C. Is this zone for	ree from pollution and/or litter?	1	3. Comments:		
Existing Conditions #.	2 Total (Sum 2A through 2C)	3	The addition of the wind farm and elevated substations to the existing view further industrialial already compromised by the man-made structures that have been built upon it, adjacent to it	t, and right into the ocean, especially the Playground	d Pier shopping
Existing Conditions Grand Total 3. Comments:	I (Sum #1 Total and #2 Total)	28.5	mall and associated (6) big-screen towers with extensive structural framing. The mass and s is visually clear and the lack of order, varying heights, stacking and level of bisection on the t view. However, the turbines are lighter in color and finer in texture in comparison to the mid; the viewer's attention.	horizon serves to intensify the perceived level of visu	ual clutter in the
Cultural Historic: Atlantic City Beach, Atlantic City Convention Hall.					
Aesthelic: Wide open sandy beach.					
Litter: Beach and city visitor litter.					
Summary of View: Contextually, the interesting architecture of the Jim Whelan Boardwalk Hall that flank it, especially the Playground Pier shopping mall that Juts into the ocean and obstructs the mall match the scale of the casinos across the boardwalk and dominate the view due to the secondary elements to the man-made structures in this view, which is visually compromised in	the full beach experience. The (6) big-screen criss-cross steel framing. The beach, ocean a	towers on top of			
ATLANTIC SHORES offshore wind		3 of 6	ATLANTIC SHORES offshore wind		4 of 6
Visual Impact Assessment	Personnel: KAC		Visual Impact Assessment	Personnel: KAC	
visuai iiripact Assessineitt	KOP: <u>AC02 JW Bo</u>	oardwalk	visual impuot vissossinont	KOP: ACO2 JW Boa	ardwalk
Drangered Conditions Commetibility and Control Det	Date: 23 February	2021	Drawaged Conditions	Date: 23 February 2	2021
Proposed Conditions - Compatibility and Contrast Rating			Proposed Conditions 8. Visibility Threshold Level - Check the box next to the description that most closely describes the visual prominence of the Project		olect from
Note: If an element is not present in the view the score should be a 0 (no impact), otherwise, rating should be a whole number score.		6. Visionity 1 mesholic level - Check the dox next to the description that most closely describes the visual profilmence of the Project from the selected KOP.		-,	

the selected KOP. Visibility Rating Description Visibility level 1. Visible only after extended, close viewing; otherwise invisible. An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period. An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be delected without extended viewing, it could sometimes be notified by casual observers however, most people would not notice it without some active looking. Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers. Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers. An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject. An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field. Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion. An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention in addition to strong contrasts in form, line, color, and texture, bright light sources such as lighting and reflections and moving objects associated with the study subject may contribute substantially of carwing viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements. \checkmark Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance. An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by turning one's head more than 45' from a direct view of the object. The object/phenomenon is femally focus of Visual atlention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in from, line, cotic, and leathure, tight light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject directs on locateally from viewer of other landscapedesscape elements. N/A



4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible)



					_
Visual Impact Assessment		Vi	sual Impact Assessment	Personnel: KV	
1				KOP: ACO2 - Boardwalk Hall	
Date: 02-22-2021	Personnel: KV		Principles of composition, continued:	Date: 02-22-2021	
Landscape Similarity Zone: Atlantic City	Key Observation Point Name/Number: AC02 - Boardwa	<u>IIK Hall</u>	3. Visual Clutter	and the state of t	
Key Observation Point (KOP) Familiaria	zation		Numerous unrelated built elements occurring within a view can creat adverse effect on scenic quality.		
Landscape/seascape, viewer, and related factors to be con-	sidered during evaluation of the KOP are outlined below.		Does this view contain elements that contribute to visual clutter?	Yes No	
	be incorporated into the scoring and comments on the VIA assessment fo al observations and should be completed quickly, taking no more than 5 m		If yes, how does the visual clutter affect the view? the busynes attention aw 4. Movement	s of the beach users and orange cones becomes a focus altracting ay from the more serene elements	
General elements of formal visual analysis to be co	onsidered include:		Motion of existing and proposed elements in a view can attract viewe	er attention.	
	ement of objects and voids in the landscape that can be categorized by		Does this view contain elements in motion that are likely to attract	ct viewer attention? 🛮 Yes 🗆 No	
especially those that are distinctly focal, enclosed,	nents include vegetation, landform, water, and sky. Some compositions, detailed, or feature-oriented, are more vulnerable to modifications than		(If the answer is yes, Note these elements in rating form comme	ents)	
panoramic, canopied, or ephemeral landscapes.			Factors affecting visual impact:		
	our major compositional elements that define the perceived visual characters refers to the shape of an object that appears unified, often defined by	er	5. Duration of View		
edge, outline, and surrounding space. Line refers or texture, usually evident as the edges of shapes	to the path the eye follows when perceiving abrupt changes in form, color or masses in the landscape/seascape. Texture, in this context, refers to	;		yay or hiking a trail, while others are seen for a more prolonged period nt aesthetic resources, have the greatest potential for visual impact.	
the visual surface characteristics of an object. The contrast with these same elements in the existing	extent to which form, line, color, and texture of a project are similar to or landscape/seascape is a primary determinant of visual impact.		The duration of this view is: <a> Short Term/Fleeting Long	g-term	
 Spatial Dominance: The degree to which an obje and thus dominates seascape composition from a 	ct or landscape/seascape element occupies space in a landscape/seasca specific viewpoint.	ape	The frequency of this view is: Repeated Occasional		
	roject in relation to its surroundings can define the compatibility of its scal scale is likely to vary depending on the distance from which it is seen an			ditions can affect the visibility of an object or objects. These conditions with landscape/seascape elements and the design elements of form,	
Principles of composition to be considered inc	clude:		Conditions in this view can be described as: Clear Pa	rtly Cloudy 🔲 Overcast 🔲 Hazy	
1. Focal Point			Conditions that may increase/decrease visibility could be descri	ibed as: visibility on a clear day may increase, while an overcast/hazy	
physical characteristics. Focal points often contra tend to draw a viewer's attention. Examples inclu lighthouse. If possible, a proposed project should in the landscape/seascape.	e features stand out and are particularly noticeable as a result of their st with their surroundings in color, form, scale, or texture, and therefore de prominent trees, mountains, or cultural features, such as a distinctive not be sited so as to obscure or compete with important existing focal po	ints	7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming front lighting refers to a situation where the light source is coming fivewed. Side lighting refers to a viewing situation in which sunlight is elements in a scene. Lighting direction can have a significant effect	om behind the observer and falling directly upon the area being s coming from overhead or the side of the observer to a feature or	
Does this view contain a focal point?					
If yes, briefly identify/describe: the ocean side e	dge of developed pier		The relevant lighting condition can be described as: 🗾 backlit	frontlit side-lit	
by displaying traditional or logical patterns of land this natural order may detract from scenic quality.	g order determined by natural processes. Cultural landscapes exhibit ord luse/development. Elements in the landscape that are inconsistent with When a new project is introduced to the landscape, intactness and order s, lines, colors, and textures existing in the surrounding built or natural		Scenic or Recreational Value Designation as a scenic or recreational resource is an indication tha resource. The characteristics of the resource that contribute to its so visual impact on that resource.	It there is broad public consensus on the value of that particular renic or recreational value provide guidance in evaluating a project's	
Does this view contain a natural order? If yes, how does the natural order affect the v			Would viewers consider this location a valued scenic or recreational	resource? 🗹 Yes 🗆 No	
the repetition of tire track lines on the shore and the re the scene landing on the congested focal point of the o	pealing wooden docks draw the viewer from the less congested right edge of the view into developed pier	0		this site is used for recreation purposes such as swimming, non-motorized boating, sunbathing, and a variety of other beach activity.	
ATLANTIC SHORES offshore wind		1 of 6	ATLANTIC SHORES	2 of	6

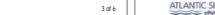
Visual Impact Assessment	Personnel: KV	
•	KOP: ACO2 - Boardy	valk Hall
Existing Conditions	Date: 02-22-2021	
In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1).	liability to 9 distinct)	
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating be a whole number score.		
		Score
	Water Resources:	5
	Landform:	5
	Vegetation:	4.5
	Land Use:	3
	User Activity:	5
Existing Co	onditions #1 Total:	22.5
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high density)		
Special Condition A. Does this zone contain any scenic, cultural, or	historic landmarks?	3
Special Condition B. Are there other aesthetic elements that ac	ld to this resource?	0
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/polluted)	ion)	
Special Condition C. Is this zone free from po	ollution and/or litter?	2
Existing Conditions #2 Total (Su	m 2A through 2C)	5
Existing Conditions Grand Total (Sum #1*	Total and #2 Total)	27.5
motion attracting viewer attention: ocean waves, beach goers, birds This view captures an expanse of ocean shoreline connected to a highly developed area. While large scale he behind the framed view, they are represented within the view by an intensely developed recreation pier orgina otherwise open ocean is partially blocked by this pier. Landform in this view is a smooth sandy shoreline with g landflom are blocked in this direction by the pier. No vegetation is available in the view, but within this region g obscure portions of the boardwalk from ocean visibility. Land use within this scene is primarily recreational and may be represented by beach goers or shoppersflourists early day crowds are beginning to form. A variety of ATV tracks are found in the view from tife guards and othe shore. Outside vehicles are not permitted in these locations. This site is from shoreline directly in front of the Atlantic City Convention Hall NHL. No other aesthetic resource many trash cans just out of view assume that it is common.	Ily developed as a 4-story shopping gradual decline to the ocean, and d grassy dunes general back the sanc ging form low impact to very high in ging form low impact to very high in githin the pier. Just beyond the view er safety/maintenance employees tr	g mall. The istant views of dy beach and impact. User if frame large raversing the

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Visual Impact Assessment	Personnel: KV KOP: ACO2 - Board	dwalk Hall
Proposed Conditions	Date: <u>02-22-2021</u>	
1. With the proposed project in place, rate the aesthetic quality/sensitivity of each resourc	e on a score of 1 to 9 (1 liability to 9	distinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Score
	Water Resources:	3
	Landform:	4
	Vegetation:	4.5
	Land Use:	3
	User Activity:	4
 Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct) Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can be adjusted up or down based upon the Proposed Conditions view. 	Special Conditions:	5
	Total:	23.5

conditions are unlikely to diminish visibility by a noticeable amount except during extremely conditions such as very cloudyfloggy days. The large substations sit visibly as heavy blocks between turbines. Across the breadth of the array WTG clustering and stacking seems to expand and contract with disorganized, scattered clusters aligning into a formalized procession before disbanding and realigning, depending on the viewer's exact location. Areas of stacked turbines create a higher value coloration but vacant lanes between allow for the understanding that open horizon exists beyond. Where turbines appear scattered they individually sit lighter on the horizon, but crowd the viewer.

Water resources, previously impacted by the intensely developed pier, find further reduction in natural scenic value. The above score reflects a notion that reduction of natural scenic value will result in an overall reduction of scenic value. However, it may be worth nothing that scenic value at a highly developed, high volume tourist attraction may not be rooted in natural quality alone. However, a deeper understanding of the users within this space would be required to assess that. Similarly, the flat sandy shoreline is further diminished by the vertical nature of the WTC, and when compared to the more natural form is likely to see a decrease in quality. Given the intensity of existing development related to both land use and user activity components of either are unlikely to be displaced by this new development.



Visual Impact Assess	sment	Personnel: KV	Visual Impact Assessr	ment Personnel: KV	
		KOP: AC02 - Boardwalk Hall		KOP: <u>AC02 - Boardy</u>	valk Hall
Proposed Conditions - Compati	ibility and Contrast Rating	Date: 02-22-2021	Proposed Conditions	Date: <u>02-22-2021</u>	
	f an element is not present in the view the score shou should be a whole number score.	d be a 0 (no impact), otherwise,	Visibility Threshold Level - Check the the selected KOP.	e box next to the description that most closely describes the visual prominence of the Pro	ject from
Rate the compatibility of the proposed project of the project of the proposed project of the p	on a scale of 1 to 3 (1 compatible to 3 not compati	ble)	Visibility Rating	Description	
Water Resources:	3 Land Use:	·	Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
Landform: Vegetation:	3 User Activity: O Total:		Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing, it could sometimes be noticed by casual observers: however, most people would not notice it without some active looking.	
5. Rate scale contrast of the proposed project on a			Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	
Water Resources: Landform: Vegetation:	3 Land Use: 3 User Activity: 0 Total:	2 9	Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly altract visual altention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
Rate spatial dominance of the proposed project Water Resources: Landform: Vegetation:	t on a scale of 1 to 3 (1 subordinate, 2 co-dominar 3 Land Use: 3 User Activity: Total:	2 2	Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Aftention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and lending to hold that attention. In addition is storing contrasts in form, line, color, and lexture, bright light sources such as lighting and reflections and moving objects associated with the study subject may contribute substantially of orwanize foresterminents. The visual perminence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	
7. Comments:	U iota.	10	Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong cont asts in form, line, cofor, lexture, luminance, or motion may contribute to view dominance.		✓
The WTG at this location are not compatible with the wa the WTG are compatible with the current highly develop current scale contrast, but co-dominant spatially. Yet, ev as somewhat compatible, moderate in scale, and co-do	ped (but non-point source polluting) land use. Similarly, the existing user activity may focus on either developed or na	ne WTG are minimal when compared to the	9. Comments:		
				evisual prominence is likely to detract noticeable form the existing view of the seascape. However, assideveloped area is difficult as there is no precedent.	sessing what

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Visual Impact Assessment	
Date: March 02, 2021	Personnel: Steve Breitzka
Landscape Similarity Zone: Resident / Tourist	Key Observation Point Name/Number: AC02
	,
Key Observation Point (KOP) Familiarization	on
Landscape/seascape, viewer, and related factors to be considered	ed during evaluation of the KOP are outlined below.
	corporated into the scoring and comments on the VIA assessment form ervations and should be completed quickly, taking no more than 5 minutes)
General elements of formal visual analysis to be consid	ered include:
their spatial arrangement. Basic landscape components	t of objects and voids in the landscape that can be categorized by include vegetation, landform, water, and sky. Some compositions, led, or feature-oriented, are more vulnerable to modifications than
of a landscape/seascape, as well as a project. Form ref edge, outline, and surrounding space. Line refers to the or texture, usually evident as the edges of shapes or m the visual surface characteristics of an object. The exter	ajor compositional elements that define the perceived visual character ers to the shape of an object that appears unified, often defined by path the eye follows when perceiving abrupt changes in form, color, asses in the landscape/seascape. Texture, in this context, refers to Int to which form, line, color, and texture of a project are similar to or cape/seascape is a primary determinant of visual impact.
 Spatial Dominance: The degree to which an object or and thus dominates seascape composition from a spec 	landscape/seascape element occupies space in a landscape/seascape ific viewpoint.
	t in relation to its surroundings can define the compatibility of its scale is likely to vary depending on the distance from which it is seen and
Principles of composition to be considered include	:
1. Focal Point	
physical characteristics. Focal points often contrast wit tend to draw a viewer's attention. Examples include pro	ures stand out and are particularly noticeable as a result of their h their surroundings in color, form, scale, or texture, and therefore minent trees, mountains, or cultural features, such as a distinctive e sited so as to obscure or compete with important existing focal points
Does this view contain a focal point? ✓ Yes	
If yes, briefly identify/describe: Large billboards, unique	e architecture with boardwalk style deck over the water.
2. Order	
by displaying traditional or logical patterns of land use/ this natural order may detract from scenic quality. Whe	er determined by natural processes. Cultural landscapes exhibit order development. Elements in the landscape that are inconsistent with n a new project is introduced to the landscape, intactness and order s, colors, and textures existing in the surrounding built or natural
Does this view contain a natural order? Yes	

The order is from the ocean waves cresting on the shoreline, across a wide sandy beach, to urban development with high-rises and glass to take advantage of the oceanfront view.

Visual Impact Assessment	Personnel: Steve Breitzka
	KOP: <u>ACO2</u>
Principles of composition, continued:	Date: March 02, 2021
Visual Clutter Numerous unrelated built elements occurring within a view can.	create visual clutter (disrupting the natural order), which generally has an
adverse effect on scenic quality.	
Does this view contain elements that contribute to visual cli	utter? Z Yes No
	utter is within the architecture. Variety of color, materials, and forms. The beach smaller, less obtrusive clutter with safety cones, gulls, and lifeguard elements.
4. Movement	,,,,
Motion of existing and proposed elements in a view can attract	viewer attention.
Does this view contain elements in motion that are likely to	attract viewer attention?
(If the answer is yes, Note these elements in rating form co	nmments)
Factors affecting visual impact:	
5. Duration of View	
	oadway or hiking a trail, while others are seen for a more prolonged period ifficant aesthetic resources, have the greatest potential for visual impact.
The duration of this view is: \square Short Term/Fleeting $\!$	Long-term
The frequency of this view is: 🗹 Repeated 🗖 Occasi	onal
6. Atmospheric Conditions	
	conditions can affect the visibility of an object or objects. These conditions ents with landscape/seascape elements and the design elements of form,
Conditions in this view can be described as: Clear	Partly Cloudy Overcast Hazy
Conditions that may increase/decrease visibility could be of	described as: Thin clouds in the middle of the sky transitioning to a dense white haze at the horizon.
7. Lighting Direction	
Front lighting refers to a situation where the light source is com- viewed. Side lighting refers to a viewing situation in which sunl	ming toward the observer from behind a feature or elements in a scene. ing from behind the observer and falling directly upon the area being ight is coming from overhead or the side of the observer to a feature or f
The relevant lighting condition can be described as:	cklit 🗖 frontlit 🗹 side-lit
8. Scenic or Recreational Value	
	in that there is broad public consensus on the value of that particular its scenic or recreational value provide guidance in evaluating a project's
Would viewers consider this location a valued scenic or recrea	tional resource? 🛮 Yes 🗆 No
How would the site be used for scenic or recreational enjoyme	nt? The land has been developed to take specific use of this location and view.

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ATLANTIC SHORES offshore wind

ATLANTIC SHORES

Visual Impact Assessment	Personnel: Steve Brei	tzka	Visual Impact Assessment	Personnel: Steve Breitzka	
	KOP: <u>AC02</u>		'	KOP: <u>AC02</u>	
Existing Conditions	Date: <u>March 02,</u>	2021	Proposed Conditions	Date: March 02, 2021	
•	ivity of each resource on a score of 1 to 9 (1 liability to 9 distinct)		With the proposed project in place, rate the aesthetic quality/sensitivity of each	resource on a score of 1 to 9 (1 liability to 9 dis	tinct)
Note: If an element is not present in the view the score shi be a whole number score.	ould be 4.5 of 9.0 (no impact), otherwise, rating should		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact) otherwise, rating should be a whole number score.	· · · · · · · · · · · · · · · · · · ·	Score
		Score		Water Resources:	1
	Water Resources:	8		Landform:	1
	Landform:	6		Vegetation:	4.5
	Vegetation:	4.5		Land Use:	1
	Land Use:	8		User Activity:	1
	User Activity:	8			
	Existing Conditions #1 Total:	34.5	2. Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct)		
2. Respond to each question below using a score of 0	to 3 (0 not present to 3 being high density)		Note: Special Conditions score is taken directly from Existing Conditions #2 Total and co be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	1
Special Condition A. Does this z	zone contain any scenic, cultural, or historic landmarks?	3		·	
Special Condition B. Are the	nere other aesthetic elements that add to this resource?	2		Total:	9.5
Respond to each question below using a score of 0 to	3 (0 littered/polluted to 3 free of litter/pollution)				
Special C	Condition C. Is this zone free from pollution and/or litter?	1	3. Comments:		
	Existing Conditions #2 Total (Sum 2A through 2C)	6	The proposed turbines fill the horizon, scattered across the entire view. Though not particul oceanside deck at the Hall), the turbines become the collective focal point in the distance. and dark against the light sky.		
Existing 3. Comments:	Conditions Grand Total (Sum #1 Total and #2 Total)	40.5	and date against the tight says.		
designed to take advantage of this location with glass facade	the Boardwalk with multiple beach connections, and the historic Boardwalk Hales and deck perched over the water. This appears to be a busy beach given the d. The sky is hazy white at the horizon, leading to wispy clouds before turning to	advertising. Low			
ATLANTIC SHORES offshore wind		3 of 6	ATLANTIC SHORES offshore wind		4 of 6
Visual Impact Assessm	Personnel: <u>Steve Breit</u> KOP: <u>AC02</u>	tzka	Visual Impact Assessment	Personnel: Steve Breitzka KOP: ACO2	

Note: If an element is not present in the view the score should be a 0 (no impact), otherwise, rating should be a whole number score. 1. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible) Water Resources: Land Use: 3 Land Use: 3 Vegetation: 0 Total: 12	
Proposed Conditions - Compatibility and Contrast Rating Note: If an element is not present in the view the score should be a 0 (no impact), otherwise, ralling should be a whole number score. 4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible) Water Resources: Land Use: 3 User Activity: 3	
rating should be a whole number score. 4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible) Water Resources: Land Use: Landform: 3 User Activity: 3 Vegetation: Total: 12	
Water Resources: 3 Land Use: 3 Landform: 3 User Activity: 3 Vegetation: 0 Total: 12	
Landform: 3 User Activity: 3 Vegetation: 0 Total: 12	
Vegetation: 0 Total: 12	
•	
5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe)	
Water Resources: 3 Land Use: 3	
Landform: 3 User Activity: 3	
Vegetation: 0 Total: 12	
6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominant)	
Water Resources: 3 Land Use: 3	
Landform: 3 User Activity: 3	
Vegetation: 0 Total: 12	

Visibility Rating	Description	
sibility level 1. Visible only after extended use viewing; otherwise invisible.	 An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period. 	
sibility level 2. Visible when scanning in e general direction of the study subject; herwise likely to be missed by casual iservers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
sibility level 3. Visible after a brief glance the general direction of the study subjec id unlikely to be missed by casual servers.		
sibility level 4. Plainty visible, so could the missed by casual observers, but es not strongly attract visual attention or minate the view because of its apparent re, for views in the general direction of e study subject.		
sibility level 5. Strongly attracts the visua tention of views in the general direction or e study subject. Attention may be drawn the strong contrast in form, line, color, o kture, luminance, or motion.	f so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to strong contrasts in form, line, color, and texture,	
sibility level 6. Dominates the view cause the study subject fills most of the suaf field for views in its general direction rong contrasts in form, line, color, texture minance, or motion may contribute to we dominance.	 a direct view of the object. The object/phenomenon is the major focus of visual attention, and its 	√



/isua Impact Assessment	Visual Impact Assessment	Personnel: Jocelyn Gavitt
tate: 2/16/21 Personnel: Jocelyn Gavitt		KOP: AC04 Ocean Casino
	Principles of composition, continued:	Date: 2/16/21
andscape Similarity Zone: <u>Casino District/City Center</u> Key Observation Point Name/Number: <u>AC04 Ocean Casi</u>	5. Visual Glutter	
Key Observation Point (KOP) Familiarization	Numerous unrelated built elements occurring within a view can create visual of adverse effect on scenic quality.	
andscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.	Does this view contain elements that contribute to visual clutter?	
he effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment for proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 mil		built elements on land that do not relate strongly to one another, built field relative to the beach line and open water.
General elements of formal visual analysis to be considered include:	Motion of existing and proposed elements in a view can attract viewer attention	n.
Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by	Does this view contain elements in motion that are likely to attract viewer	attention? Ves No
their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions, especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or ephemeral landscapes.	(If the answer is yes, Note these elements in rating form comments)	
Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual characte	Factors affecting visual impact:	
of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by	5. Duration of View	
edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to	Some views are seen as quick glimpses while driving along a roadway or hik of time. Longer duration views of a project, especially from significant aesthe	
the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.	The duration of this view is: Short Term/Fleeting Z Long-term	to resources, have the greatest potential for violal impact.
 Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascap and thus dominates seascape composition from a specific viewpoint. 	pe The frequency of this view is: ☐ Repeated ☑ Occasional	
Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale.	6. Atmospheric Conditions	
within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors.	Clouds, precipitation, haze, and other ambient weather-related conditions ca can greatly impact the visibility and contrast of project components with lands line, color, texture, and scale.	
Principles of composition to be considered include:	Conditions in this view can be described as: 🗹 Clear 🗆 Partly Cloud	dy Overcast Hazy
1. Focal Point	Conditions that may increase/decrease visibility could be described as:	More moisture in the atmosphere would likely decrease visibility
Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their	7. Lighting Direction	VISIOLITY
physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal poir in the landscape/seascape.	Backlighting refers to a viewing situation in which sunlight is coming toward the Front lighting refers to a situation where the light source is coming from behing the source of the so	nd the observer and falling directly upon the area being from overhead or the side of the observer to a feature or
Does this view contain a focal point?		
If yes, briefly identify/describe: The Pier/piers act to center one's view to that area.	The relevant lighting condition can be described as: 🗹 backlit 🗌 from	ntlit 🔲 side-lit
2. Order		
Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order	8. Scenic or Recreational Value	
by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.	Designation as a scenic or recreational resource is an indication that there is resource. The characteristics of the resource that contribute to its scenic or re visual impact on that resource.	
Does this view contain a natural order? ☑ Yes ☐ No If yes, how does the natural order affect the view?	Would viewers consider this location a valued scenic or recreational resource	e? 🗹 Yes 🗆 No
The open water view that meets the horizon and skyline create a natural order to the majority of the scene.	How would the site be used for scenic or recreational enjoyment? This is an	oceanfront destination location for large amounts of people.
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Visual Impact Assessn	nent Personnel: Jocelyn Ga KOP: AC04 Ocea		Visua	al Impact Assessment	Personnel: Jocelyn Gav	
Existing Conditions	Date: <u>2/16/21</u>		Propose	ed Conditions	Date: 2/16/21	
•	quality/sensitivity of each resource on a score of 1 to 9 (1 liability to 9 distinct) we the score should be 4.5 of 9.0 (no impact), otherwise, rating should		Note: If an ele	proposed project in place, rate the aesthetic quality/sensitivity of lement is not present in the view the score should be 4.5 of 9.0 (no im alting should be a whole number score.	npact),	Score
	Water Resources:	Score 8			Water Resources: Landform:	3
	Landform: Vegetation:	5			Vegetation:	3
	Land Use:	7			Land Use: User Activity:	3
	User Activity:	7				
	Existing Conditions #1 Total: ag a score of 0 to 3 (0 not present to 3 being high density) Does this zone contain any scenic, cultural, or historic landmarks?	31	Note: Special	ely rate special conditions on a score of 0 to 9 (0 liability to 9 dis al Conditions score is taken directly from Existing Conditions #2 Total a up or down based upon the Proposed Conditions view.		5
Special Condit	ion B. Are there other aesthetic elements that add to this resource?	2			Total:	20
Respond to each question below using	a score of 0 to 3 (0 littered/polluted to 3 free of litter/pollution) Special Condition C. Is this zone free from pollution and/or litter?	2	3. Comments	ts:		
	Existing Conditions #2 Total (Sum 2A through 2C)	7	impact on the	ean view is dominated by a highly visible and very large field of turbines. e view. Viewers will be drawn to the grid formation of the turbines and the rill be clearly visible and will animate the view.		
3. Comments:	Existing Conditions Grand Total (Sum #1 Total and #2 Total)	38				
	e seen by many users for extended periods of time. The visual clutter of the land area is perceive piers and horizon that frame the water. There is likely to be movement in the waves and in the us					

Personnel: Jocelyn Gavitt Visual Impact Assessment KOP: AC04 Ocean Casino Date: 2/16/21 **Proposed Conditions - Compatibility and Contrast Rating** Note: If an element is not present in the view the score should be a 0 (no impact), otherwise, rating should be a whole number score 4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible) Land Use: Water Resources: 3 2 Landform: 2 User Activity: 2 Total: Vegetation 10 5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) Water Resources: 3 Land Use: 3 Landform: 2 User Activity: 3 Vegetation: 2 Total: 13 6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominant) Water Resources Land Use: 2 User Activity: Landform 2 Vegetation: Total: 11 7. Comments: This view is a significant component of how this particular landscape is valued and the impact of this proposed field of turbines is significant. The proposed field of turbines will become the focus of the landscape, and because of its relative close proximity and large scale, it will dominate the landscape

ATLANTIC SHORES offshore wind

Date: 16 February 2021

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Visual Impact Assessment

Personnel: Jocelyn Gavitt

KOP: AC04 Ocean Casino

Date: 2/16/21

Proposed Conditions

8. Visibility Threshold Level - Check the box next to the description that most closely describes the visual prominence of the Project from the selected KOP,

Visibility Rating	Description	
Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more loosely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	
Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape-leaencape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so shongly that it is a major floous of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to storag contrasts in form, line, color, and lexture, bright light sources such as lighting and reflections and moving objects associated with the study subject may contribute substantially ordawing viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	
Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, cotor, texture, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual flidt, and views of it cannot be avoided except by turning one's head more than 45" from a direct view of the object. The object/phenomenon is the major focus of visual attention, and its large apparent size is a flight refore in 1s view dominance. In addition to size, contrasts in form, line, cotor, and tetrue; bright light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject defracts noticeably from views of other landscapelseascape elements.	✓

9. Comments:

The proposed conditions are highly visible, create strong contrast, and will strongly alter the image of this landscape

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	-	= 0	fshore	win

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Personnel: KAC

 ${\bf Landscape\ Similarity\ Zone:}\ \underline{{\it Casino\ District\ |\ City\ Center}}$

Key Observation Point Name/Number: AC04 OCR Sky Garden

Key Observation Point (KOP) Familiarization

Landscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.

The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form (proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes)

General elements of formal visual analysis to be considered include:

- Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or ephemeral landscapes.
- Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.
- Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint.
- Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors.

Principles of composition to be considered include:

1. Focal Point

Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape.

Does this view contain a focal point? 🗹 Yes 🔲 No

If yes, briefly identify/describe: Horizon line and slip of pink sky.

2. Order

Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land used/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.

Does this view contain a natural order? Yes No If yes, how does the natural order affect the view?

Urban landscape, dune, beach, ocean, horizon, and sky; horizontal landscape with very few vertical elements

		_	
Visual	Impact	Assessmen	ıt

Personnel:	KAC
KUP.	AC04 OCR Sky Garde

Principles of composition, continued: Date: 16 February 2021

1			 ,	
	3. Visual	Clutter		

Numerous unrelated built elements occurring within a view can creat- adverse effect on scenic quality.	e visual clutter (disrupting the natural order), which generally has ar
Does this view contain elements that contribute to visual clutter?	✓ Yes □ No

If yes, how does the visual clutter affect the view? Ditapidated land uses; utility poles and guard rails along roadway at beach edge and

Movement
 Motion of existing and proposed elements in a view can attract viewer attention.

Does this view contain elements in motion that are likely to attract viewer attention?

(If the answer is yes, Note these elements in rating form comments)

Factors affecting visual impact:

5. Duration of View

Some views are seen as quick glimpses while driving along a roadway or hiking a trail, while others are seen for a more prolonged period of time. Longer duration views of a project, especially from significant aesthetic resources, have the greatest potential for visual impact.

The duration of this view is: \square Short Term/Fleeting \checkmark Long-term

The frequency of this view is: 🗹 Repeated 🗆 Occasional

6. Atmospheric Conditions

Clouds, precipitation, haze, and other ambient weather-related conditions can affect the visibility of an object or objects. These conditions can greatly impact the visibility and contrast of project components with landscape/seascape elements and the design elements of form, line, color, leature, and scale.

Conditions in this view can be described as: \square Clear \square Partly Cloudy $ot \square$ Overcast \square Hazy

Conditions that may increase/decrease visibility could be described as: Thick cloud layer at the horizon in the photo interrupts the pink-red sky from being fully visible.

7. Lighting Direction

Backlighting refers to a viewing situation in which sunlight is coming toward the observer from behind a feature or elements in a scene. Front lighting refers to a situation where the light source is coming from behind the observer and failing directly upon the area being viewed. Side lighting refers to a viewing situation in which sunlight is coming from overhead or the side of the observer to a feature or elements in a scene. Lighting direction can have a significant effect on the visibility and contrast of landscape and project elements.

8. Scenic or Recreational Value

ATLANTIC SHORES

Designation as a scenic or recreational resource is an indication that there is broad public consensus on the value of that particular resource. The characteristics of the resource that contribute to its scenic or recreational value provide guidance in evaluating a project's visual impact on that resource.

Would viewers consider this location a valued scenic or recreational resource? $\ensuremath{\omega}$ Yes $\ensuremath{\square}$ No

How would the site be used for scenic or recreational enjoyment? The Atlantic City Beach

Visual Impact Assessment Personnel: K	(AC	Visual Impact Assessment	Personnel: KAC	
·	CO4 OCR Sky Garden	Visual impuot / issossiniont	KOP: ACO4 OCR Sky C	<u>Garden</u>
Existing Conditions Date: 1	6 February 2021	Proposed Conditions	Date: <u>16 February 202</u>	<u>!1</u>
1. In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1 liability to 9 dis	stinct)	1. With the proposed project in place, rate the aesthetic quality/sensitivity of each re	esource on a score of 1 to 9 (1 liability to 9 distir	nct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Score
	Score		Water Resources:	5
Water Reso	ources: 7		Landform:	6
Lan	dform: 6		Vegetation:	6
Vege	etation: 6		Land Use:	5
Lan	d Use: 7		User Activity:	5
User A	activity: 7		L	
Existing Conditions #1	Total: 33	Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct)		
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high density)		Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	3
Special Condition A. Does this zone contain any scenic, cultural, or historic landness	narks?			3
Special Condition B. Are there other aesthetic elements that add to this reso	ource? 1		Total:	30
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/pollution)			ı	
Special Condition C. Is this zone free from pollution and/or	r litter?	3. Comments:		
Existing Conditions #2 Total (Sum 2A through	gh 2C) 3	With the Project in place the view is now completely flocused on the massive wind farm and multiple arrangement. The view to the horizon is interrupted by the dense overlay of stacked turbines that organized pattern and are seemingly scattered through out the view, thereby introducing visual clut	are clearly visible at this viewing distance. The turbines di tter to what was otherwise a mostly pristine seascape view	do not have an w. It would be
Existing Conditions Grand Total (Sum #1 Total and #2 3. Comments:	Total) 36	impossible to sit in the Sky Garden and not be focused on the whirling and turning of the turbine bla	ades, which would be spinning at different cadences to ea	ach other.
Cultural Historic: Allantic City Beach				
Aesthetic: Extensive water view to the horizon. Natural rock jetty is interesting in texture against the relatively smooth nature of the wa	iter surface. Large surf waves.			
Litter: Urban visitor litter.				
Summary of View: This elevated view from the casino building terraces allows a wide, unobstructed view to the strong line where the cis focused outward as there is no adjacent architecture or land use to draw the viewers attention away from the ocean. Repeated utility vegetated dune and beach edge and fending directs the path of travel. These elements interrupt the seamless transition between the b front and the rolling surf.	poles punctuate the border the			
ATLANTIC SHORES offshore wind	3 of 6	ATLANTIC SHORES offshore wind		4 of 6
Visual Impact Assessment Personnel: K	(AC	Visual Impact Assessment	Personnel: KAC	
	COA OCD Class Conden	1 1	ACOA OCD Cl	C

Visual Impact Assess	ment	Per	sonnel: KAC
			KOP: ACO4 OCR Sky Ga
Proposed Conditions - Compati	bility and Cont	rast Rating	Date: 16 February 2021
	an element is not prese hould be a whole numbe	nt in the view the score should b er score.	e a 0 (no impact), otherwise,
4. Rate the compatibility of the proposed project of	on a scale of 1 to 3 (1 c	ompatible to 3 not compatible)
Water Resources:	3	Land Use:	3
Landform:	2	User Activity:	3
Vegetation:	1	Total:	12
5. Rate scale contrast of the proposed project on	a scale of 1 to 3 (1 min	imal to 3 severe)	
Water Resources:	3	Land Use:	3
Landform:	2	User Activity:	3
Vegetation:	1	Total:	12
6. Rate spatial dominance of the proposed project	t on a scale of 1 to 3 (1	subordinate, 2 co-dominant, 3	dominant)
Water Resources:	3	Land Use:	3
Landform:	1	User Activity:	3
Vegetation:	1	Total:	11
7. Comments:			
Compatibility: The magnitude of the turbine installation is of	overwhelming to the view.		
Scale: At 10.54-miles to the closest turbine the wind farm	scale over powers the adja	cent land uses and items of visual in	iterest.
Spatial Dominance: The wind farm is the dominant visual	feature within the view		

Visibility Rating	Description	
/isibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
Visibility level 2. Visible when scanning in he general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more loosely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
/isibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	
/isibility level 4. Plainly visible, so could to be missed by casual observers, but loes not strongly attract visual attention or forminate the view because of its apparent ize, for views in the general direction of he study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
/isibility level 5. Strongly attracts the visual attention of views in the general direction of he study subject. Attention may be drawn by the strong contrast in form, line, color, or exture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual alteriolion, drawing viewer attention immediately and tending to hold that attention. In addition to strong contrasts, in form, tier, cotor, and testure, bright light sources such as lighting and reflections! and moving objects associated with the study subject may contribute substantially of orating inverse relation. The visual promisence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	
risibility level 6. Dominates the view because the study subject fills most of the isual field for views in its general direction. strong contrasts in form, line, color, texture, uminance, or motion may contribute to iew dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by turning one's head more than 458 from a direct view of the object. The object/phenomenon is the major focus of visual attention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, color, and texture, tripfit light is ources and moving objects associated with the study subject may contribute substantially to drawing viewer altention. The visual prominence of the study subject defracts onliceably from views of other landscapedesacapse elements.	V



N/A

/isual Impact Assessment	Visual Impact Assessment	Personnel: Kiva VanDerGeest
vate: 02-16-2021 Personnel: Kiva VanDerGeest		KOP: <u>ACO4 - Ocean Casino</u>
	Principles of composition, continued:	Date: <u>02-16-2021</u>
andscape Similarity Zone: <u>Atlantic City</u> Key Observation Point Name/Number: <u>ACO4 - Ocean Casino</u> Key Observation Point (KOP) Familiarization	3. Visual Clutter Numerous unrelated built elements occurring within a view can create visual clutter adverse effect on scenic quality.	(disrupting the natural order), which generally has an
andscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.	Does this view contain elements that contribute to visual clutter?	□ No
he effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes)	If yes, how does the visual clutter affect the view? the amount and variety of bo although it is entirely contain 4. Movement	ardwalk user amenities adds visual clutter to the image, ed within the very bottom of the first framed view.
General elements of formal visual analysis to be considered include:	Motion of existing and proposed elements in a view can attract viewer attention.	
 Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions, especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or ephemeral landscapes. 	Does this view contain elements in motion that are likely to attract viewer attent (If the answer is yes, Note these elements in rating form comments) Factors affecting visual impact:	ion? 🗹 Yes 🗌 No
Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character		
of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Fexture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or	Duration of View Some views are seen as quick glimpses while driving along a roadway or hiking a of time. Longer duration views of a project, especially from significant aesthetic res	
contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.	The duration of this view is: Short Term/Fleeting Long-term	
 Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint. 	The frequency of this view is: ☐ Repeated ☑ Occasional	
 Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors. 	6. Atmospheric Conditions Clouds, precipitation, haze, and other ambient weather-related conditions can affer can greatly impact the visibility and contrast of project components with landscape line, color, texture, and scale.	
Principles of composition to be considered include:	Conditions in this view can be described as: Clear Partly Cloudy Clear	Overcast Hazy
1. Focal Point	Conditions that may increase/decrease visibility could be described as: clear of	
Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape. Does this view contain a focal point? Ves No	7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming toward the ob Front lighting refers to a situation where the light source is coming from behind the viewed. Side lighting refers to a viewing situation in which sunlight is coming from elements in a scene. Lighting direction can have a significant effect on the visibility	server from behind a feature or elements in a scene. observer and falling directly upon the area being overhead or the side of the observer to a feature or
If yes, briefly identify/describe: Focus in this view is drawn to the point of the stone jetty sitting out on the ocean.		-
2. Order	The relevant lighting condition can be described as: 🗹 backlit 🗖 frontlit	☐ side-lit
2. Order Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.	Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that there is broad resource. The characteristics of the resource that contribute to its scenic or recreat visual impact on that resource.	I public consensus on the value of that particular lonal value provide guidance in evaluating a project's
Does this view contain a natural order? ☑ Yes ☐ No If yes, how does the natural order affect the view?	Would viewers consider this location a valued scenic or recreational resource?	Yes No
the striation of uses exhibited across the view draws the viewer into the frame, the gaze then scans across the view and the dark sea at the horizon accenting the electric pink horizon sandwiched between dark sea and clouds holds the view.		nd concentration of site amenities signifies this place as source that is highly utilized.
ATLANTIC SHORES 1 of 6 offshore wind	ATLANTIC SHORES offshore wind	2

Visual Impact Assessment	Personnel: Kiva VanDerG	eest
·	KOP: ACO4 - Ocean	Casino_
Existing Conditions	Date: 02-16-2021	
In the existing view rate the aesthetic quality/sensitivity of each resource on a score	e of 1 to 9 (1 liability to 9 distinct)	
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), oth be a whole number score.	erwise, rating should	
		Score
	Water Resources:	6
	Landform:	6
	Vegetation:	5
	Land Use:	4
	User Activity:	4
E	xisting Conditions #1 Total:	25
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being hi	gh density)	
Special Condition A. Does this zone contain any scenic, co	ultural, or historic landmarks?	2
Special Condition B. Are there other aesthetic eleme	nts that add to this resource?	2
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of	f litter/pollution)	
Special Condition C. Is this zone from	ee from pollution and/or litter?	1
Existing Conditions #2	Total (Sum 2A through 2C)	5
Existing Conditions Grand Total 3. Comments:	(Sum #1 Total and #2 Total)	30
Motion likely to attract viewer attention in this view: Other users moving along the boardwalk and bead waves/flashing in dim lighting, Ocean waves.	ch (walking, biking, jogging, exercising). Buoys float	ng on
The existing view demonstrates a high overlook toward the ocean in the early morning hours. The uni and the ability to view from such an elevated vantage point. Land form in this view is minimal and pron amenities suggest this location anticipates serving large crowds. The minimal vegetation suggests its boardwalk, the height of the dunes blocks the majority of views from the boardwalk to the ocean, sugge view itself. The view is anchored on the bottom left corner by heavy muted grays, line, and texture of variety of lines, the boardwalk and handralis draw horizontal to vertical light posts, diagonal lines of th cross access brings viewer attention to the ocean scene. The electric fues of the early morning sky hit the expanse of the culward view of uninterrupted ocean dotted in the foreground by buoys. However, the scene just beyond the selected view indicates a sharp transition from well maintained st marred by pitting and pooled valer run-off.	vides a glimpse of large boardwalk and concentratio purpose as a protective element to hold the sandy sessing boardwalk user activity is centered away for the boardwalk. Viewer gaze moves across this area e vegetation and the shoreline with the stone pier p elp separate the deep tint of the clouds from the occ	n of site shoreline and in the ocean following the rojecting on a ean and highligh

2. Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct)

Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can be adjusted up or down based upon the Proposed Conditions view.

Special Conditions:

Total:

25

3. Comments:

This view within a highly developed urban area benefits from the uniqueness of the elevated vantage point providing viewers with a sense of the expansive nature of the open ocean. However, the introduction of the turbines encloses the view and re-centers the scene back to a strong emphasis on the built environment. The back-lit turbines spanning a good stricth of horizon, along with large substation massess greatly afters the nature of this view which once provided a visual respite from the intense development on land.

1. With the proposed project in place, rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1 liability to 9 distinct)

Visual Impact Assessment

Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.

Proposed Conditions

2 of 6

Score

3

5

5

4

3

Personnel: Kiva VanDerGeest

Water Resources:

Landform:

Vegetation:

Land Use:

User Activity:

KOP: <u>AC04 - Ocean Casino</u>

Date: <u>02-16-2021</u>

Visual Impact Assessment

Personnel: Kiva VanDerGeest

KOP: ACO4 - Ocean Casino

Date: 02-16-2021

Proposed Conditions - Compatibility and Contrast Rating

Note: If an element is not present in the view the score should be a 0 (no impact), otherwise, rating should be a whole number score.

4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible)

 Water Resources:
 3
 Land Use:
 1

 Landform:
 3
 User Activity:
 1

 Vegetation:
 2
 Total:
 10

5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe)

 Water Resources:
 3
 Land Use:
 1

 Landform:
 1
 User Activity:
 1

 Vegetation:
 2
 Total:
 8

6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominant)

 Water Resources:
 3
 Land Use:
 2

 Landform:
 3
 User Activity:
 2

 Vegetation:
 3
 Total:
 13

7 Comments:

The turbines placed and back-III on the horizon greatly affect the water resources and ocean viewing within this scene. However, the existing vegetation is minimal and the land form beginning the properties of the WTGs. Similarly, land use and user activity at this location stradied as fine line of lintense high rise development, neglected and abandoned land, with space caved out along the shorteline to take in the dispatient, neglected and abandoned land, with space caved out along the shorteline to take in the dispatient, neglected and the shortest place of the shortest place of the shortest place. The shortest place is the shortest place of the shortest place is the shortest place of the shortest place. However, the existing land use and user activity.

ATLANTIC SHORES

offshore wind

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Visual Impact Assessment

Personnel: Kiva VanDerGeest

KOP: ACO4 - Ocean Casino

Date: 02-16-2021

Proposed Conditions

8. Visibility Threshold Level - Check the box next to the description that most closely describes the visual prominence of the Project from the selected KOP.

Visibility level 1. Visible only after extended, close viewing otherwise invisible. An object/phenomenon that is near the extense first of visibility. It could not be seen by a person who was unsured off it in advance and loveling for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period. Visibility level 2. Visible when scanning in the general direction of the study subject otherwise likely to be missed by casual observers. Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers. An object/phenomenon that is very small and/or faint, but when the observer is scanning the best of the study subject and unlikely to be missed by casual observers. Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers, but without sufficient size or contrast to compete with major landscapel seascape elements. An object/phenomenon that is obvious and with sufficient size or contrast to compete with other onto the missed by casual observers, but without sufficient size or contrast to compete with major landscapel seascape elements. An object/phenomenon that is obvious and with sufficient size or contrast to compete with other onto the missed by casual observers, but does not strongly attract visual attention and insufficient size to occupy most of an observer's visual field. Visibility level 5. Strongly attracts the visual attention of when the general direction of the study subject. Altenion may be days a parter and the study subject. Altenion may be days a parter and the study subject interferes noticeably with views of nearby landscape/seascape elements.
the general direction of the study subject otherwise likely to be missed by casual observers be noticed by casual observers. The properties of the study subject and unlikely to be missed by casual observers be noticed by casual observers. Bowever, most people would not notice it without some active looking one active looking one active looking. Visibility level 4. Painty visible: so could not be missed by casual observers, but without sufficient size or contrast to compete with major inandecape' seascage elements. An object/phenomenon that can be easily detected after a brief look and would be visible to improve the missed by casual observers, but without sufficient size or contrast to compete with other not be missed by casual observers, but with insufficient visual contrast to storogie attraction or the study subject. Visibility level 4. Painty visible: so could not be missed by excause of its severy, but and contrast to storogie attraction or discovered the study subject. Visibility level 5. Strongly attracts the visual attention or divers in the general direction of the study subject. Altention may be done to the study subject, altention and insufficient visual attention. Alternative the subject was the subject of the study subject, altention and insufficient visual attention. Alternative the subject of the subject of the study subject, and the subject of the
in the general direction of the study subject and unlikely to be missed by casual observers. Wisibility level 4, Plainty visible, so could not be missed by casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements. Wisibility level 4, Plainty visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject. Wisibility level 5, Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn to strong contrast in form, line, color, and teaching the study subject. Attention may be tool both that attention, in addition to strong contrast in form, line, color, and teaching by the study subject, expenditure, turnismos, or motion.
not be missed by casual observers, but does not strongly attract visual disconsens strongly attract visual attention and insufficient size to occupy most of an observer's visual field. In disconserver's visual field. Wisbilly level 5. Strongly attracts the visual attention of views in the general direction of the study subject. An object/phenomenon that is not large but contrasts with the surrounding landscape elements attention of views in the general direction of the study subject. Attention may be thought attention and insufficient size to occupy most of an observer's visual field. Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be tool of that attention in addition to strong contrasts in form, ince, color, and texture, by the strong contrast in form, ince, color, or texture, luminance, or motion.
attention of views in the general direction or the study subject. Altention may be dead and the study subject. Altention may be dead well ending to both that attention in addition to strong contrasts in form, inc., coto, or totarue, luminance, or motion.
Visibility level 6. Dominates the view because the subty subject fills most of the visual field for views in its general direction. String contrasts in find, line, color, learn of the visual field for views in its general direction. String contrasts in find, line, color, learn of the visual field for views in its general direction. String contrasts in find, line, color, rand learning to the view of the object. The object/thenomenon is the major focus of visual attention, and its view dominance, or motion may contribute to view dominance. In addition to size, contrasts in form, line, color, and texture, bright light sources and moving objects associated with the study subject may contribute usbastnalish of orwing viewer attention. The visual periorimence of the study subject detracts noticeably from views of other landscape/seascape elements.

9. Comments:

Visu

The strong back-lighting against the muted pastel colors of the sky make the dark silhoutels pronounced within the view. With the turbines in motion it will become difficult to distract viewer attention from the turbines. However, I'the boardwalk and beach become fully utilized during the height of tourist season the entire view will be basy, distraction, and difficult to find focus. On davs that are both busy and more overcast or hazy the turbines may be more accronicately classified as a VTL.5

ATLANTIC SHORES
offshore wind

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Visual Impact Assessment

Date: February 17, 2021 Personnel: Steve Breitzka

Landscape Similarity Zone: <u>Casino District / City Center</u> Key Observation Point Name/Number: <u>AC04</u>

Key Observation Point (KOP) Familiarization

Landscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.

The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form (proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes)

General elements of formal visual analysis to be considered include:

- Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by
 their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions,
 especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than
 panoramic, canopied, or ephemeral landscapes.
- Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impart of visual impart.
- Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint.
- Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors.

Principles of composition to be considered include:

1. Focal Point

Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or lexture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape.

Does this view contain a focal point? <a>Z Yes <a>D No

If yes, briefly identify/describe: Man-made stone jetty extending approximately 375' straight out from the coastline. Pedestrian accessible

2. Order

Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.

Does this view contain a natural order? ✓ Yes ☐ No If yes, how does the natural order affect the view?

There is an order in the expansive open water meeting the sky as the sun rises; coming back to land with cresting waves lapping at a sandy beach. The beach is backed by low grassy vegetation and an elevated wood boardwalk.

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ıal Impact Assessment	Personnel: Steve Breitzka		
·	KOP:_AC04		
rinciples of composition, continued:	Date: February 17, 2021		
 Visual Clutter Numerous unrelated built elements occurring within a view can create visual clutte adverse effect on scenic quality. 	er (disrupting the natural order), which generally has an		
Does this view contain elements that contribute to visual clutter? $\hfill \square$ Yes	☑ No		
If yes, how does the visual clutter affect the view?			
4. Movement Motion of existing and proposed elements in a view can attract viewer attention.			
Does this view contain elements in motion that are likely to attract viewer atter	ntion? 🗹 Yes 🗆 No		
(If the answer is yes, Note these elements in rating form comments)			
actors affecting visual impact:			
 Duration of View Some views are seen as quick glimpses while driving along a roadway or hiking a of time. Longer duration views of a project, especially from significant aesthetic re 			
The duration of this view is: Short Term/Fleeting Long-term			
The frequency of this view is: Repeated Occasional			
6. Atmospheric Conditions Clouds, precipitation, haze, and other ambient weather-related conditions can afficant greatly impact the visibility and contrast of project components with landscap line, color, texture, and scale. Conditions in this view can be described as: Clear Party Cloudy	e/seascape elements and the design elements of form,		
Conditions that may increase/decrease visibility could be described as: Cloud	d bank creates a dark edge on the water at the horizon.		

Backlighting refers to a viewing situation in which sunlight is coming toward the observer from behind a feature or elements in a scene. Front lighting refers to a situation where the light source is coming from behind the observer and falling directly upon the area being viewed. Side lighting refers to a viewing situation in which sunlight is coming from overhead or the side of the observer to a feature or elements in a scene. Lighting direction can have a significant effect on the visibility and contrast of landscape and project elements.

Designation as a scenic or recreational resource is an indication that there is broad public consensus on the value of that particular resource. The characteristics of the resource that contribute to its scenic or recreational value provide guidance in evaluating a project's visual impact on that resource.

How would the site be used for scenic or recreational enjoyment? The view is from a Sky Garden at the Ocean Casino-Resort, a lush

The relevant lighting condition can be described as: 🗾 backlit 🔲 frontlit 🔲 side-lif

Would viewers consider this location a valued scenic or recreational resource?

Yes
No

ATLANTIC SHORES

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8. Scenic or Recreational Value

Visual Impact Assessment Personnel: Steve Bre	itzka	Visual Impact Assessment	Personnel: Steve Breitzka	a
KOP: <u>ACO4</u>	47.0004		KOP: <u>AC04</u>	
Existing Conditions Date: February	17, 2021	Proposed Conditions	Date: February 17, 2	2021
1. In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1 liability to 9 distinct)		With the proposed project in place, rate the aesthetic quality/sensitivity of each reso	ource on a score of 1 to 9 (1 liability to 9 di	stinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Score
	Score		Water Resources:	3
Water Resources:	9		Landform:	4
Landform:	7		Vegetation:	6
Vegetation:	6		Land Use:	2
Land Use:	9		User Activity:	2
User Activity:	9			
Existing Conditions #1 Total:	40	Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct) Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can		
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high density)		be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	3
Special Condition A. Does this zone contain any scenic, cultural, or historic landmarks?	3			
Special Condition B. Are there other aesthetic elements that add to this resource?	3		Total:	20
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/pollution)				20
Special Condition C. Is this zone free from pollution and/or litter?	2	3. Comments:		
Existing Conditions #2 Total (Sum 2A through 2C)	8	The proposed furbines have an imposing presence on the horizon, their density and spacing form majority of the view. Lighting plays an important role in proposed turbine visibility. The structures at the horizon that lightness this portion of the view. The clouds and water are dark near the furbin	s are backlit by the rising sun and there is a brea	ak in the clouds
Existing Conditions Grand Total (Sum #1 Total and #2 Total)	48	orange band as a backdrop. There is minimal existing development or interference in the natural order of this view, limited to a		
3. Comments:		the elevated boardwalk. The turbines and associated infrastructure contribute a band of development of the contribute and associated infrastructure contribute a band of development of the contribute and associated infrastructure contribute a band of development of the contribute and associated infrastructure contribute a band of development of the contribute and associated infrastructure contribute a band of development of the contribute and associated infrastructure contribute a band of development of the contribute and associated infrastructure contribute a band of development of the contribute and associated infrastructure contribute a band of development of the contribute and associated infrastructure contribute a band of development of the contribute and associated infrastructure contribute a band of development of the contribute and associated infrastructure contribute and associ		
This is a postcard view from the hotel Sky Garden where the eye is immediately drawn to the dark, clean, and calm horizon, accentuated b surrise. The view is drawn back to shore by a straight, stone-lextured jetty extending into the water. This focuses attention on the waves shore, leading up to a scrubly swath of vegetation. A wide wood boardwalk adds a constructed recreation aspect with railings, pedestrian lighting, benches, adirondack chairs, and trash receptacles. There is a softness to this view both in color with warm blues and earth-tones, and texture with the waves at the beach.	cresting at the sandy			
ATLANTIC SHORES offshore wind	3 of 6	ATLANTIC SHORES offshore wind		4 of 6
Viewal Image A A account Personnel: Steve Bre	eitzka	Vicual Impact Accessment	Personnel: Steve Breitzka	а

Visual Impact Assess	ment	Per	sonnel: Steve Breitzka
riodai impaoti toocco			KOP: <u>AC04</u>
Proposed Conditions - Compatil	oility and Cont	rast Rating	Date: February 17, 20.
	an element is not presen nould be a whole number	nt in the view the score should by r score.	e a 0 (no impact), otherwise,
4. Rate the compatibility of the proposed project o	n a scale of 1 to 3 (1 co	ompatible to 3 not compatible)	
Water Resources:	3	Land Use:	3
Landform:	2	User Activity:	3
Vegetation:	1	Total:	12
5. Rate scale contrast of the proposed project on a	scale of 1 to 3 (1 mini	mal to 3 severe)	
Water Resources:	3	Land Use:	3
Landform:	2	User Activity:	3
Vegetation:	1	Total:	12
6. Rate spatial dominance of the proposed project	on a scale of 1 to 3 (1	subordinate, 2 co-dominant, 3	dominant)
Water Resources:	3	Land Use:	2
Landform:	2	User Activity:	2
Vegetation:	3	Total:	12
7. Comments:			

Proposed Conditions Visibility Threshold Level - Check the ne selected KOP.	box next to the description that most closely describes the visual prominence of the F	Project fror
Visibility Rating	Description	
Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	
Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An objectiphenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending lo hold that attention. In addition to strong contrasts in form, line, color, and texture, bright light sources such as lighting and reflectional and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	√
Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by turning one's head more than 45° from a direct view of the object. The object-phenomenon is the mogif roccus of visual attention, and is, which is the object of the ob	





Visual Impact Assessment		Visual Impact Assessment	Personnel: <u>Jocelyn Gavitt</u>
Date: 2/16/21	Personnel: Jocelyn Gavitt		KOP: BC02 North Brigantine
		Principles of composition, continued:	Date: 2/16/21
Landscape Similarity Zone: Undeveloped Beach	Key Observation Point Name/Number: BC02 North Brig	3. Visual Gutter	
$\label{eq:Kop} \textbf{Key Observation Point (KOP) Familiarization}$		adverse effect on scenic quality.	hin a view can create visual clutter (disrupting the natural order), which generally has an
Landscape/seascape, viewer, and related factors to be considered du	ring evaluation of the KOP are outlined below.	Does this view contain elements that contrib	ute to visual clutter?
The effect of the proposed Project on these factors should be incorpo (proposed conditions). (This form is intended to record initial observations).			view?
General elements of formal visual analysis to be considered	includes	Motion of existing and proposed elements in a vio	ew can attract viewer attention.
•		Does this view contain elements in motion th	nat are likely to attract viewer attention?
especially those that are distinctly focal, enclosed, detailed,	logects and voids in the landscape that can be categorized by use vegetation, landform, water, and sky. Some compositions, or feature-oriented, are more vulnerable to modifications than	(If the answer is yes, Note these elements in	
panoramic, canopied, or ephemeral landscapes.		Factors affecting visual impact:	
 Form, Line, Color, and Texture: These are the four major of of a landscape/seascape, as well as a project. Form refers to 	compositional elements that define the perceived visual charact to the shape of an object that appears unified, often defined by	er 5. Duration of View	
edge, outline, and surrounding space. Line refers to the path or texture, usually evident as the edges of shapes or masses	the eye follows when perceiving abrupt changes in form, colors in the landscape/seascape. Texture, in this context, refers to	Some views are seen as quick glimpses while d	triving along a roadway or hiking a trail, while others are seen for a more prolonged period scially from significant aesthetic resources, have the greatest potential for visual impact.
the visual surface characteristics of an object. The extent to contrast with these same elements in the existing landscape	which form, line, color, and texture of a project are similar to or /seascape is a primary determinant of visual impact.	The duration of this view is: Short Term	n/Fleeting ☑ Long-term
 Spatial Dominance: The degree to which an object or lands and thus dominates seascape composition from a specific vi 		The frequency of this view is: Repeat	ed 🗹 Occasional
Project Scale: The apparent size of a proposed project in re	elation to its surroundings can define the compatibility of its sca	e 6. Atmospheric Conditions	
within the existing seascape. Perception of project scale is li other contextual factors.	kely to vary depending on the distance from which it is seen an		veather-related conditions can affect the visibility of an object or objects. These conditions project components with landscape/seascape elements and the design elements of form,
Principles of composition to be considered include:		Conditions in this view can be described as	s; ☑ Clear ☐ Partly Cloudy ☐ Overcast ☐ Hazy
1. Focal Point		Conditions that may increase/decrease visi	bility could be described as: More moisture in the atmosphere would likely decrease
Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their		7. Lighting Direction	visibility
tend to draw a viewer's attention. Examples include promin- lighthouse. If possible, a proposed project should not be site in the landscape/seascape.	ir surroundings in color, form, scale, or texture, and therefore ent trees, mountains, or cultural features, such as a distinctive ad so as to obscure or compete with important existing focal po	nts Front lighting refers to a situation where the ligh viewed. Side lighting refers to a viewing situation	h sunlight is coming toward the observer from behind a feature or elements in a scene. It source is coming from behind the observer and falling directly upon the area being in which sunlight is coming from overhead or the side of the observer to a feature or a significant effect on the visibility and contrast of landscape and project elements.
Does this view contain a focal point? 🗹 Yes 🗆 No			
If yes, briefly identify/describe: The horizon line acts as a foo	cal point in this view.	The relevant lighting condition can be described	d as: ☑ backlit ☐ frontlit ☐ side-lit
2. Order			
	termined by natural processes. Cultural landscapes exhibit ord	er 8. Scenic or Recreational Value	
	lopment. Elements in the landscape that are inconsistent with ew project is introduced to the landscape, intactness and order lors, and textures existing in the surrounding built or natural		e is an indication that there is broad public consensus on the value of that particular at contribute to its scenic or recreational value provide guidance in evaluating a project's
Does this view contain a natural order? Yes If yes, how does the natural order affect the view?	No	Would viewers consider this location a valued so	cenic or recreational resource? 🗹 Yes 🔲 No
The open water view that meets the horizon and skyline create a n	atural order.	How would the site be used for scenic or recrea	tional enjoyment? This is an area of undeveloped beach that is in close proximity and accessibly to a highly developed area.
ATLANTIC SHORES offshore wind		1 of 6 ATLANTIC SHORES offshore wind	2

ATLANTIC SHO		1 of 6	ATLANTIC SHORES offshore wind		2 of 6
Visual Impact A	ssessment Personnel: Jocelyn Ga	vitt	Visual Impact Assessment	Personnel: Jocelyn Gav	ritt
	KOP: BC02 North	Brigantine	Visual Impact Assessment	KOP: BC02 North	Brigantine
Existing Conditio	ns Date: <u>2/16/21</u>		Proposed Conditions	Date: <u>2/16/21</u>	
1. In the existing view rate	the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1 liability to 9 distinct)		1. With the proposed project in place, rate the aesthetic quality/sensitivity of each re	esource on a score of 1 to 9 (1 liability to 9	distinct)
Note: If an element is not pre be a whole number score.	sent in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Score
		Score		Water Resources:	2
	Water Resources:	9		Landform:	3
	Landform:	5		Vegetation:	4.5
	Vegetation:	4.5		Land Use:	3
	Land Use:	7		User Activity:	3
	User Activity:	8			
	Existing Conditions #1 Total:	33.5	2. Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct)		
2. Respond to each question	on below using a score of 0 to 3 (0 not present to 3 being high density)		Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	_
Special C	condition A. Does this zone contain any scenic, cultural, or historic landmarks?	3			5
Spe	cial Condition B. Are there other aesthetic elements that add to this resource?	2		Total:	20.5
Respond to each question	below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/pollution)				
	Special Condition C. Is this zone free from pollution and/or litter?	3	3. Comments:		
	Existing Conditions #2 Total (Sum 2A through 2C)	8	The open ocean view is dominated by a highly visible and very large field of turbines. Users in negative impact on the view. This is a stark contrast to the undeveloped nature of the environ significant visual clutter that becomes the focus of the view. The motion of the turbine blades	ment in the existing conditions. the proposed co	onditions add
3. Comments:	Existing Conditions Grand Total (Sum #1 Total and #2 Total)	41.5	the structures creates new lines in the view.		
	iew that will be seen by users for extended periods of time. There is movement in the waves, and a clean, sim r view dominates the landscape.	ple organization of			



Personnel: Jocelyn Gavitt **Visual Impact Assessment** KOP: BC02 North Brigantine Date: 2/16/21 **Proposed Conditions - Compatibility and Contrast Rating** Note: If an element is not present in the view the score should be a 0 (no impact), otherwise, rating should be a whole number score. 4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible) Land Use: Water Resources: 3 2 Landform: User Activity: 2 2 Vegetation: Total: 9 5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) $\,$ Water Resources: 3 Land Use: 3 Landform: 2 User Activity: 3 Vegetation: 0 Total: 11 6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominant) Water Resources: Land Use: 2 Landform: User Activity: 3 Vegetation: Total: 10 0 7. Comments:

Users of this environment will find a strong contrast in before/after conditions. The general appeal of this particular landscape is its undeveloped nature and pristine open water views. This will change dramatically with the view being dominated by the field of turbines. These proposed turbines create a significant "built" presence in an otherwise natural landscape.

ATLANTIC SHORES offshore wind

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Visual	Impact	Assessi	men

Personnel: Jocelyn Gavitt

KOP: BC02 North Brigantine

Date: 2/16/21

Proposed	Conditions
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8. Visibility Threshold Level - Check the box next to the description that most closely describes the visual prominence of the Project from the selected KOP,

Visibility Rating	Description	
Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape! seascape elements.	
Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape-leaencape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so shongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to storgo contrasts in form, line, color, and texture, bright light sources such as lighting and reflections! and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual promisence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	
Visibility level 6. Dominates the view because the study subject list most of the vesual field for vession in its general direction. Strong contrasts in form, line, cotor, toxture, luminance, or motion may contribute to view dominance.	An object/phenomenon with storag visual contrasts that is so large that it occupies most of the visual flict, and views of it cannot be avoided except by turning one's head more than 3 of the adirect view of the object. The object/phenomenon is the imagin focus of visual attention, and fits large apparent size is a might relator in 18 view dominance. In addition to size, contrasts in form, line, cotor, and textive, bright light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject defracts noticeably from views of other landscape/seasscape elements.	✓

9. Comments:

The proposed conditions are highly visible, create strong contrast, and will strongly alter the image of this landscape.

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Date: 16 February 2021	Personnel: KAC
Landscape Similarity Zone: <u>Undeveloped Beach</u>	Key Observation Point Name/Number: <u>BC02 N Brigatine NA</u>
Key Observation Point (KOP) Familiarizati	on
Landscape/seascape, viewer, and related factors to be consider	ed during evaluation of the KOP are outlined below.
	corporated into the scoring and comments on the VIA assessment form servations and should be completed quickly, taking no more than 5 minutes,
General elements of formal visual analysis to be consid	dered include:
their spatial arrangement. Basic landscape component	nt of objects and voids in the landscape that can be categorized by sinclude vegetation, landform, water, and sky. Some compositions, silled, or feature-oriented, are more vulnerable to modifications than
of a landscape/seascape, as well as a project. Form re edge, oulline, and surrounding space. Line refers to thit or texture, usually evident as the edges of shapes or m the visual surface characteristics of an object. The exte	ajor compositional elements that define the perceived visual character fers to the shape of an object that appears unified, often defined by path the eye follows when perceiving abrupt changes in form, color, asses in the landscape/seascape. Texture, in this context, refers to int to which form, line, color, and texture of a project are similar to or scape/seascape is a primary determinant of visual impact.
 Spatial Dominance: The degree to which an object or and thus dominates seascape composition from a spec 	landscape/seascape element occupies space in a landscape/seascape zific viewpoint.
	t in relation to its surroundings can define the compatibility of its scale e is likely to vary depending on the distance from which it is seen and
Principles of composition to be considered include	e:
1. Focal Point	
physical characteristics. Focal points often contrast wi tend to draw a viewer's attention. Examples include pr	tures stand out and are particularly noticeable as a result of their th their surroundings in color, form, scale, or texture, and therefore ominent frees, mountains, or cultural features, such as a distinctive se sited so as to obscure or compete with important existing focal points

Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.

Visual Impact Assessment	Personnel: KAC
Visual impust / tooossinont	KOP: BC02 N Brigatine NA
Principles of composition, continued:	Date: 16 February 2021
Visual Clutter Numerous unrelated built elements occurring within a view can create visual clutte adverse effect on scenic quality.	er (disrupting the natural order), which generally has an
Does this view contain elements that contribute to visual clutter? $\hfill \square$ Yes	☑ No
If yes, how does the visual clutter affect the view? N/A	
4. Movement Motion of existing and proposed elements in a view can attract viewer attention.	
Does this view contain elements in motion that are likely to attract viewer atte	ntion? 🗹 Yes 🗆 No
(If the answer is yes, Note these elements in rating form comments)	
Factors affecting visual impact:	
 Duration of View Some views are seen as quick glimpses while driving along a roadway or hiking of time. Longer duration views of a project, especially from significant aesthetic n 	
The duration of this view is: \square Short Term/Fleeting $ olimits \square$ Long-term	
The frequency of this view is: 🗹 Repeated 🗖 Occasional	
6. Atmospheric Conditions Clouds, precipitation, haze, and other ambient weather-related conditions can affician greatly impact the visibility and contrast of project components with landscap line, color, texture, and scale.	
Conditions in this view can be described as: 🗹 Clear 🗖 Partly Cloudy 🛘	Overcast Hazy
Conditions that may increase/decrease visibility could be described as: Hazz	y or overcast conditions could reduce the depth of visibility.
7. Lighting Direction	
Backlighting refers to a viewing situation in which surlight is coming toward the or Front lightling refers to a situation where the light source is coming from behind it viewed. Side lighting refers to a viewing situation in which sunlight is coming from elements in a scene. Lighting direction can have a significant effect on the visibili	ne observer and falling directly upon the area being n overhead or the side of the observer to a feature or
The relevant lighting condition can be described as: $\ \square\ $ backlit $\ \square\ $ frontlit	side-lit
8. Scenic or Recreational Value	
Designation as a scenic or recreational resource is an indication that there is bro resource. The characteristics of the resource that contribute to its scenic or recre visual impact on that resource.	
Would viewers consider this location a valued scenic or recreational resource?	☑ Yes □ No
How would the site be used for scenic or recreational enjoyment? Undeveloped I	Beach with associated natural area



2. Order

Does this view contain a focal point? \square Yes \square No If yes, briefly identify/describe: Horizon line.

Does this view contain a natural order? \square Yes \square No If yes, how does the natural order affect the view?

Beach, surf, waves, ocean, and horizon; horizontal landscape with strong striations of waves.

Visual Impact Assessment Personne	l: KAC	Visual Impact Assessment	Personnel: KAC	
KOF	P: BC02 N Brigatine NA	'	KOP: BC02 N Brig	atine NA
Existing Conditions Date	e: <u>16 February 2021</u>	Proposed Conditions	Date: 16 February	2021
1. In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1 liability to 9	9 distinct)	With the proposed project in place, rate the aesthetic quality/sensitivity of each reso	ource on a score of 1 to 9 (1 liability to 9	distinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Score
	Score		Water Resources:	5
Water R	esources: 7		Landform:	5
ı	Landform: 6		Vegetation:	4.5
V	egetation: 4.5		Land Use:	5
I	Land Use: 6		User Activity:	5
Use	er Activity: 6			
Existing Conditions	#1 Total: 29.5	Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct) Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can		
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high density)		be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	4
Special Condition A. Does this zone contain any scenic, cultural, or historic lan	ndmarks? 1			
Special Condition B. Are there other aesthetic elements that add to this r	resource? 1		Total:	28.5
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/pollution)			rotan	28.5
Special Condition C. Is this zone free from pollution an	d/or litter?	3. Comments:		
Existing Conditions #2 Total (Sum 2A thr	ough 2C)	With the Project in place, the view is totally focused on the massive wind farm and multiple elevated su straight on view to the wind farm emphasizes the perceived disorder of the turbine layout . There is a li	limited section of turbines that are densely stack	ing over
Existing Conditions Grand Total (Sum #1 Total and 3. Comments:	#2 Total) 33.5	themselves while the others are in a more random pattern, at varying heights. This layout pattern incre aesthetic quality of what was once a pristine seascape. The beach is no longer "undeveloped" due to It		
Cultural Historic: Undeveloped Beach Natural Area				
Aesthetic: Wide water view to the horizon. Rolling surf and sense of isolation and privateness.				
Litter: Limited visitor litter.				
Summary of View: The undeveloped view to the ocean and horizon is a visually pleasing combination of light colored fine sand the trash, gently rolling surf and sea birds dashing through the scene. The deep blue-green color of the water meets the light blue of the flatness of the horizon. The long rolling waves create strong striations of textured water though the midground, contrasting the	he horizon strongly, which emphasizes			
ATLANTIC SHORES offshore wind	3 of 6	ATLANTIC SHORES offshore wind		4 of 6
Visual Impact Assessment Personne	ıl: <i>KAC</i>	Visual Impact Assessment	Personnel: KAC	

Visual Impact Assess	sment	Pe	rsonnel: KAC
Tiodd: Impaot / toooot	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		KOP: BC02 N Brigatine NA
Proposed Conditions - Compati	ibility and Contr	ast Rating	Date: 16 February 2021
	f an element is not presen should be a whole number	t in the view the score should b score.	ne a 0 (no impact), otherwise,
4. Rate the compatibility of the proposed project	on a scale of 1 to 3 (1 co	mpatible to 3 not compatible)
Water Resources:	3	Land Use:	2
Landform:	2	User Activity:	3
Vegetation:	0	Total:	10
5. Rate scale contrast of the proposed project on	a scale of 1 to 3 (1 minir	mal to 3 severe)	
Water Resources:	3	Land Use:	2
Landform:	2	User Activity:	3
Vegetation:	0	Total:	10
6. Rate spatial dominance of the proposed project	t on a scale of 1 to 3 (1 s	subordinate, 2 co-dominant, 3	3 dominant)
Water Resources:	3	Land Use:	2
Landform:	2	User Activity:	3
Vegetation:	0	Total:	10

Visibility Rating	Description	
Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
Visibility level 2. Visible when scanning in he general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more obsely at an area, can be detected without extended viewing. It could sometimes be noticed by assual observers: however, most people would not notice it without some active looking.	
Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	
/Isibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
/isibility level 5. Strongly attracts the visual attention of views in the general direction of he study subject. Attention may be drawn by the strong contrast in form, line, color, or exture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending lo hold that attention. In addition to strong contrasts in form, line, color, and texture, bright light sources such as lighting and reflections and moving objects associated with the study subject may contribute substantially of averwing viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	
Irisibility level 6. Dominates the view because the study subject fills most of the risual field for views in its general direction. Strong contrasts in form, line, color, texture, uminance, or motion may contribute to riew dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by furning one's head more than 458 from a direct view of the object. The object/phenomenon is the major focus of visual attention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, color, and teature, bright light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject detheats noticeably from viewer of other landscapel seasosape elements.	V



Visual Impact Assessment			Visual Impact Assessment
Date: 02-16-2021	Personnel: KV		Principles of composition, continued:
Landscape Similarity Zone: Undeveloped Beach	Key Observation Point Name/Number: BC02 - Brigan	tine Nata	3. Visual Clutter
Key Observation Point (KOP) Familiarizati			Numerous unrelated built elements occurring within a adverse effect on scenic quality.
Landscape/seascape, viewer, and related factors to be consider	red during evaluation of the KOP are outlined below.		Does this view contain elements that contribute t
The effect of the proposed Project on these factors should be in-	corporated into the scoring and comments on the VIA assessment	t form	If yes, how does the visual clutter affect the view
(proposed conditions). (This form is intended to record initial obs	servations and should be completed quickly, taking no more than b	5 minutes)	4. Movement
General elements of formal visual analysis to be considered	dered include:		Motion of existing and proposed elements in a view of
•	nt of objects and voids in the landscape that can be categorized by	,	Does this view contain elements in motion that a
their spatial arrangement. Basic landscape component	s include vegetation, landform, water, and sky. Some composition ailed, or feature-oriented, are more vulnerable to modifications that	s,	(If the answer is yes, Note these elements in ratio
	najor compositional elements that define the perceived visual chara	acter	Factors affecting visual impact:
of a landscape/seascape, as well as a project. Form re	fers to the shape of an object that appears unified, often defined b	у	5. Duration of View
or texture, usually evident as the edges of shapes or m	e path the eye follows when perceiving abrupt changes in form, co nasses in the landscape/seascape. Texture, in this context, refers t	0	Some views are seen as quick glimpses while driving of time. Longer duration views of a project, especiall
	ent to which form, line, color, and texture of a project are similar to scape/seascape is a primary determinant of visual impact.	or	The duration of this view is: Short Term/Fle
 Spatial Dominance: The degree to which an object or and thus dominates seascape composition from a spec 	landscape/seascape element occupies space in a landscape/sea cific viewpoint.	scape	The frequency of this view is: Repeated
	ct in relation to its surroundings can define the compatibility of its s le is likely to vary depending on the distance from which it is seen		 Atmospheric Conditions Clouds, precipilation, haze, and other ambient weath can greatly impact the visbility and contrast of proje- line, color, texture, and scale.
Principles of composition to be considered include	e:		Conditions in this view can be described as:
1. Focal Point			Conditions that may increase/decrease visibility
	tures stand out and are particularly noticeable as a result of their		7. Lighting Direction
tend to draw a viewer's attention. Examples include pr lighthouse. If possible, a proposed project should not t in the landscape/seascape.	th their surroundings in color, form, scale, or texture, and therefore ominent trees, mountains, or cultural features, such as a distinctive be sited so as to obscure or compete with important existing focal	re	Backlighting refers to a viewing situation in which su Front lighting refers to a situation where the light sou viewed. Side lighting refers to a viewing situation in elements in a scene. Lighting direction can have a si
Does this view contain a focal point? Yes	☑ No		
If yes, briefly identify/describe:			The relevant lighting condition can be described as:
2. Order			
	der determined by natural processes. Cultural landscapes exhibit of		8. Scenic or Recreational Value
this natural order may detract from scenic quality. Whe	/development. Elements in the landscape that are inconsistent wite en a new project is introduced to the landscape, intactness and or es, colors, and textures existing in the surrounding built or natural		Designation as a scenic or recreational resource is a resource. The characteristics of the resource that co visual impact on that resource.
Does this view contain a natural order? Yes If yes, how does the natural order affect the view?			Would viewers consider this location a valued scenic
natural order in this view provides a strong sense of calm wi ocean swells	th smooth sand recently washed by waves, birds combing the tide, and the gentl	ie	How would the site be used for scenic or recreational
ATLANTIC SHORES		1 of 6	ATLANTIC SHORES

sual Impact Assessment	Personnel: AV
-	KOP: <u>BC02 - Brigantine Nata</u>
Principles of composition, continued:	Date: 02-16-2021
3. Visual Clutter	
Numerous unrelated built elements occurring within a view can cre adverse effect on scenic quality.	ate visual clutter (disrupting the natural order), which generally has an
Does this view contain elements that contribute to visual clutte	r? Yes 🛮 No
If yes, how does the visual clutter affect the view?	
4. Movement	
Motion of existing and proposed elements in a view can attract view	wer attention.
Does this view contain elements in motion that are likely to attr	ract viewer attention? 🛮 Yes 🗆 No
(If the answer is yes, Note these elements in rating form comm	ments)
Factors affecting visual impact:	
5. Duration of View	
Some views are seen as quick glimpses while driving along a road of time. Longer duration views of a project, especially from signific	dway or hiking a trail, while others are seen for a more prolonged period ant aesthetic resources, have the greatest potential for visual impact.
The duration of this view is: <a> Short Term/Fleeting Lo	ing-term
The frequency of this view is: Repeated Occasional	al
6. Atmospheric Conditions	
	nditions can affect the visibility of an object or objects. These conditions s with landscape/seascape elements and the design elements of form,
Conditions in this view can be described as: <a> Clear <a> F	Partly Cloudy Overcast Hazy
Conditions that may increase/decrease visibility could be des	cribed as: instances in which the turbines are back lit against light clouds,
7. Lighting Direction	or front-lit against dark storm clouds could increase visibility
Backlighting refers to a viewing situation in which sunlight is comir Front lighting refers to a situation where the light source is coming viewed. Side lighting refers to a viewing situation in which sunlight	ng toward the observer from behind a feature or elements in a scene. I rom behind the observer and failing directly upon the area being is coming from overhead or the side of the observer to a feature or ct on the visibility and contrast of landscape and project elements.
The relevant lighting condition can be described as:	t 🔲 frontlit 🗹 side-lit
8. Scenic or Recreational Value	
Designation as a scenic or recreational resource is an indication the resource. The characteristics of the resource that contribute to its visual impact on that resource.	hat there is broad public consensus on the value of that particular scenic or recreational value provide guidance in evaluating a project's
Would viewers consider this location a valued scenic or recreation	hal resource? 🗹 Yes 🔲 No
How would the site be used for scenic or recreational enjoyment?	The North Briganline Natural Area is utilized for enjoyment of the natural landscape including fishing, beach combing, and swimming
ATLANTIC SHORES offshore wind	2 of

Visual Impact Assessment	Personnel: KV	
	KOP: BC02 - Briga	ntine Na
Existing Conditions	Date: <u>02-16-2021</u>	
In the existing view rate the aesthetic quality/sensitivity of each resource on a score	re of 1 to 9 (1 liability to 9 distinct)	
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), at be a whole number score.	herwise, rating should	
		Score
	Water Resources:	8
	Landform:	6
	Vegetation:	4.5
	Land Use:	7
	User Activity:	8
E	Existing Conditions #1 Total:	33.
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being h $$	nigh density)	
Special Condition A. Does this zone contain any scenic, c	cultural, or historic landmarks?	2
Special Condition B. Are there other aesthetic elements	ents that add to this resource?	2
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of	of litter/pollution)	
Special Condition C. Is this zone fr	ree from pollution and/or litter?	3
Existing Conditions #2	2 Total (Sum 2A through 2C)	7
Existing Conditions Grand Total 3. Comments:	I (Sum #1 Total and #2 Total)	40.
Movement attracting viewer attention: variety of birds, ocean waves.		
This existing view demonstrates an ocean beach scene with a sense of undisturbed natural envoid distinct in part due to limited human interaction. Much of the surrounding region is highly deverthe Natural Area blocked from beach vehicle traffic, and passensty are infrequent. An expanse movement of the near foreground ocean ecosystem becomes apparent. Ocean wews circulating the properties of the properties	eloped serving a large tourism market while this of open ocean draws viewer attention to the dist	distant portion ance, but then

	Existing Conditions #2 Total (Sum 2A through 2C)	/
3. Comments:	Existing Conditions Grand Total (Sum #1 Total and #2 Total)	40.5
Movement attracting viewer attention: variety of	birds, ocean waves.	
of distinct in part due to limited human interaction the Natural Area blocked from beach vehicle tra movement of the near foreground ocean ecosys settle in response to wave movement. Visible a beach/shoreline/locean/hor/izon/sky, and encour map suggests the viewer finds dunes to their bis the right hand side, just beyond the view, former them to the natural ocean processes established.	h scene with a sense of undisturbed natural environment. Water Resources at this location are with n. Much of the surrounding region is highly developed serving a large toursm market while this dist fiftig, and passersby are infrequent. An expanse of open ocean draws viewer attention to the distance stem becomes apparent. Ocean waves circulating sea life, a variety of bird types scour the tide, flutt and form is flat, sandy beach with gentle slope toward the water. Horizontal lines stack age viewers to square themselves to the frame. Vegetation is not found within this view although th lock. Preservation and protection make-up the primary Land use and User activity within the framed ridock posts remind the viewer the scene is not unfouched. However, the noticeable decay of the pot of in the view. With this view is focused on the recreational nature of the site and its sweepings the shorteline to the south will find the distant high-rise buildings of Atlantic City shrouded in a soft it	ant portion of ee, but then leering, and e location view, but to losts relates unse of ocean,
ATLANTIC SHORES offshore wind		3 of 6

Visual Impact Assessment	Personnel: KV	
visual impact /133633ment	KOP: <u>BC02 - Brig</u>	antine Nat
Proposed Conditions	Date: <u>02-16-2021</u>	
 With the proposed project in place, rate the aesthetic quality/sensitivity of each resource. 	ce on a score of 1 to 9 (1 liability to 9	distinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact),		Score
otherwise, rating should be a whole number score.	Water Resources:	5
	Landform:	3
	Vegetation:	4.5
	Land Use:	5
	User Activity:	5
 Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct) Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can be adjusted up or down based upon the Proposed Conditions view. 	Special Conditions:	6
	Total:	28.5
3. Comments:		
with the proposed project in place the view transitions from a space for viewing natural processes to view they appear to transition between scattered disorganization and regimented adigment based on occan view is endosed by a wall of turbutes centered on the horizon. This valled affect may increas further capturing viewer attention. The horizontal nature of the land form stacked with beachlocean't upwards. Land Use and User Activity is distracted from natural processes and entangled with developed so the state of the viewers gaze once competing with the constant methodical motion of the WTGs.	n the exact location of the viewer. The on e with the unsynchronized movement of to orizon/sky now finds intensely vertical str pment. it is unlikely that the interplay of b	ce expansive urbine blades uctures protrudir

Personnel: KV Visual Impact Assessment KOP: BC02 - Brigantine Nata Date: 02-16-2021 Proposed Conditions - Compatibility and Contrast Rating Note: If an element is not present in the view the score should be a 0 (no impact), otherwise, rating should be a whole number score 4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible) Water Resources: Land Use: 3 3 Landform: User Activity 3 3 Vegetation: Total: 0 12 5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) Water Resources 3 Land Use: 3 Landform 3 User Activity: 3 Vegetation: Total: 0 12 6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominant) Water Resources Land Use 2 Landform User Activity: 2 Vegetation: Total: 10 0 7. Comments: The WTG compared to the existing environment do not find compatibility and their scale is quite sever. Despite the expanse of visible horizon at this location the size of the WTG at such close distance dominate the view. While vegetation is not in the view it is directly behind the viewer and in a shadow may beach. The relative shallowness of the beach width (and land form) is likely to be exacerbate by an enclosed feeling created from the expanse of turbines at this

near distance. Hazy conditions or variable lighting conditions may lessen this impact, but the size and expanse of the WTGs in this array and at this distance will

ATLANTIC SHORES

Visual	Impact	Assessment

Personnel: KV KOP: BC02 - Brigantine Nata

Date: 02-16-2021

Proposed Conditions

8. Visibility Threshold Level - Check the box next to the description that most closely describes the visual prominence of the Project from the selected KOP

Visibility Rating	Description	
Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers: however, most people would not notice it without some active looking.	
Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	
Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements as strongly that it is a major focus of visual alterition, drawing viewer attention immediately and tending to hold that alterition. In addition to strong contrasts in form, line, color, and testure, bright light sources such as lighting and reflections and moving objects associated with the study subject may contribute substratially to drawing viewer attention. The visual promisence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	
Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contracts that is so large that it occupies most of the wastal field, and views of it acoma the avoided except by turning one's head more than 45° from a direct view of the object. The object/phenomenon is the major focus of visual attention, and its large apparent size is a major factor in its view dominance. In addition to sixe, contracts in form, line, color, and texture, bright light sources and moving objects associated with the study subject may contribute substainably for drawing viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.	√

9. Comments:

(Ith the Turbines roughly centered on the available horizon, the size of individual turbines, and breadth of the array the Project at this location becomes the

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Visual Impact Assessment
Date: February 18, 2021 Personnel: Steve Breitzka
Landscape Similarity Zone: <u>Undeveloped Beach</u> Key Observation Point Name/Number: <u>BC02</u>
Key Observation Point (KOP) Familiarization
Landscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.
The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form (proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes,
General elements of formal visual analysis to be considered include:
 Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions, especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or ephemeral landscapes.
• Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.
 Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint.
 Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and

Principles of composition to be considered include:

1. Focal Point

Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape.

Does this view contain a focal point? \square Yes ${\color{red} \,}{\color{blue} \,}{\color{blue}$

If yes, briefly identify/describe:

2. Order

Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.

Does this view contain a natural order?
Yes
No If yes, how does the natural order affect the view'

men

Personnel:	Steve Breitzka
KOP:	BC02

Date: February 18, 2021

Principles of	composition,	continued
Principles of	composition,	continued

Visual Clu	ıtter										
Numerous	unrelated	built elemei	nts occurri	ng within a vi	ew can o	reate visual o	lutter ((disrupting t	he natural order), which gene	erally has a
adverse ef	ffect on sce	enic quality.									
_						🗆 .		7			

4. Movement

Motion of existing and proposed elements in a view can attract viewer attention

(If the answer is yes, Note these elements in rating form comments)

Factors affecting visual impact:

5. Duration of View

Some views are seen as quick glimpses while driving along a roadway or hiking a trail, while others are seen for a more prolonged period of time. Longer duration views of a project, especially from significant aesthetic resources, have the greatest potential for visual impact.

The duration of this view is: Short Term/Fleeting Long-term

The frequency of this view is:

Repeated
Occasional

6. Atmospheric Conditions

Clouds, precipitation, haze, and other ambient weather-related conditions can affect the visibility of an object or objects. These conditions can greatly impact the visibility and contrast of project components with landscape/seascape elements and the design elements of form,

Conditions in this view can be described as: ☑ Clear ☐ Partly Cloudy ☐ Overcast ☐ Hazy

Conditions that may increase/decrease visibility could be described as: Sky and air are both clear, as evidenced by a distant sailboat

7. Lighting Direction

Backlighting refers to a viewing situation in which sunlight is coming toward the observer from behind a feature or elements in a scene. Front lighting refers to a situation where the light source is coming from behind the observer and falling directly upon the area being viewed. Side lighting refers to a viewing situation in which sunlight is coming from overhead or the side of the observer to a feature or elements in a scene. Lighting direction can have a significant effect on the visibility and contrast of landscape and project elements.

The relevant lighting condition can be described as:	П	hacklit	П	frontlit	V	side-lit

8. Scenic or Recreational Value

Designation as a scenic or recreational resource is an indication that there is broad public consensus on the value of that particular resource. The characteristics of the resource that contribute to its scenic or recreational value provide guidance in evaluating a project's visual impact on that resource.

Would viewers consider this location a valued scenic or recreational resource?

Yes

No

How would the site be used for scenic or recreational enjoyment? This is an open, unobstructed view across the ocean. Also have to go to



Visual Impact Assessment Personnel: Steve Breit	tzka	Visual Impact Assessment	Personnel: Steve Breitzk	ka
KOP: <u>BC02</u>			KOP: <u>BC02</u>	
Existing Conditions Date: <u>February 1</u>	8, 2021	Proposed Conditions	Date: February 18,	2021
In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1 liability to 9 distinct)		With the proposed project in place, rate the aesthetic quality/sensitivity of each resource.	ce on a score of 1 to 9 (1 liability to 9 (fistinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact),	c on a soore or rice / (rinability to / c	
be a whole number score.		otherwise, rating should be a whole number score.		Score
	Score		Water Resources:	2
Water Resources:	8		Landform:	2
Landform:	7		Vegetation:	4.5
Vegetation:	4.5		Land Use:	3
Land Use:	8		User Activity:	2
User Activity:	7			
Existing Conditions #1 Total:	34.5	Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct) Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can		
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high density)		be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	3
Special Condition A. Does this zone contain any scenic, cultural, or historic landmarks?	0			
Special Condition B. Are there other aesthetic elements that add to this resource?	0		Total:	16.5
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/pollution)				
Special Condition C. Is this zone free from pollution and/or litter?	3	3. Comments:		
Existing Conditions #2 Total (Sum 2A through 2C)	3	This location has an ironic feeling of seclusion, where someone could come to a place wide open an Someone would need to come here with purpose; this is not a casual view from a road or a scenic or repetition and motion, and scale to the view. A previously undisturbed view of the ocean focuses on	verlook. The proposed turbines bring indus	stry, constructed
Existing Conditions Grand Total (Sum #1 Total and #2 Total) 3. Comments:	37.5	sky is a faded white-blue color at the horizon, clearly defining every component of the turbines that a	ppear darkened in this light.	
This is a nondescript stretch of oceanfront beach. There is nothing distinctive that gives the view any sort of identity, which in turn gives it a isolation. Warm grey sand, white low waves in the surf, dark blue to the horizon, and a faded blue to light blue cloudless sky. If not for the site nothing to focus on in the distance, just endless water.				
ATLANTIC SHORES offshore wind	3 of 6	ATLANTIC SHORES offshore wind		4 of 6
		I L		
Visual Impact Accoccment Personnel: Steve Brei.	tzka	Visual Impact Assessment	Personnel: Steve Breitzk	ka
Visual Impact Assessment Personnel: Steve Breit Kop: BC02		Visual Impact Assessment	KOP: <i>BC02</i>	
Date: February 1			Date: February 18,	2021
Proposed Conditions - Compatibility and Contrast Rating		Proposed Conditions		
Note: If an element is not present in the view the score should be a 0 (no impact), othen rating should be a whole number score.	vise,	Nisibility Threshold Level - Check the box next to the description that most closely des the selected KOP.	ribes the visual prominence of the Pi	roject from
		1. 1.		

Visual Impact Assessr	nent Pe	ersonnel: Steve Breitzka	Visual Impact Assessi	ment	Personnel: Steve Breitzka
ļ		KOP:_ <i>BC02</i>			KOP: <u>BC02</u>
Proposed Conditions - Compatibi	ility and Contrast Rating	Date: <u>February 18, 2021</u>	Proposed Conditions		Date: <i>February 18, 2021</i>
	n element is not present in the view the score should and be a whole number score.	be a O (no impact), otherwise,	Visibility Threshold Level - Check th the selected KOP.	e box next to the description that most closely describes	the visual prominence of the Project from
Rate the compatibility of the proposed project on	a scale of 1 to 3 (1 compatible to 3 not compatible	e)	Visibility Rating	Description	
Water Resources:	3 Land Use:	3	Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. who was unaware of it in advance and looking for it. Even under can be seen only after looking at it closely for an extended period	those circumstances, the object
Landform: Vegetation:	3 User Activity: O Total:	12	Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when thorizon or looking more closely at an area, can be detected with sometimes be noticed by casual observers; however, most people some active looking.	out extended viewing. It could
Rate scale contrast of the proposed project on a s Water Resources:			Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief le most casual observers, but without sufficient size or contrast to c seascape elements.	
Landform: Vegetation:	2 User Activity: O Total:	3 3 111	Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly affared visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or landscape/seascape elements, but with insufficient visual contraction and insufficient size to occupy most of an observer's vis attention and insufficient size to occupy most of an observer's vis	st to strongly attract visual
Rate spatial dominance of the proposed project o Water Resources: Landform: Vegetation:	3 Land Use: 3 User Activity: Total:	3 3 3 12 12 1	Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An objectlyhenomenon hat is not large but contrasts with the su os strongly that it is a major focus of visual attention, dawing vie tending 1 hold bid at altention. In addition to strong contrasts in fo bright light sources such as lighting and reflections! and moving subject may contribute substratibility of orwany leviere attention, study subject interferes noticeably with views of nearby landscap	wer attention immediately and rm, line, color, and texture, objects associated with the study The visual prominence of the
7. Comments: People would come to this spot for the view. While there is be to specifically detach and not have a focus. The proportion one turbine to the next, making this field seem enorm	s no defined existing focal element, the openness becomes durbines aller this feeling by dominating the entire h	mes the focal point; if people walk here it would vizion. There is nothing denoting scale other	Visibility level 6. Dominates the view because the study subject filis most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance.	An objectlyhenomenon with strong visual contrasts that is so lar visual field, and views of it cannot be avoided except by turning of direct view of the object. The object/phonomenon is the major large apparent size is a major factor in its view dominance. In all line, color, and tecture, tright light sources and moving objects may contribute substantially to drawing viewer attention. The visualization of the contraction o	ne's head more than 45° from ocus of visual attention, and its dition to size, contrasts in form, ssociated with the study subject all prominence of the study
unavoidable focus.	ous. As there is nothing to focus on in the existing view	, the near of turbines becomes the sole,			



There is nothing to see in this existing view. Your sight is either focused on the beach, the waves and water, or the sky. The turbines provide a dominant and consistent focal point in the distance.

Visual Impact Assessment	Visual Impact Assessment Personnel: Jocelyn Gavitt
Date: 2/16/21 Personnel: Jocelyn Gavitt	KOP: BHB01 Beach Haven
	Principles of composition, continued: Date: 2/16/21
Landscape Similarity Zone: Oceanfront Residential Key Observation Point Name/Number: BHB01 Beach Haven	3. Visual Clutter
Key Observation Point (KOP) Familiarization	Numerous unrelated built elements occurring within a view can create visual clutter (disrupting the natural order), which generally has an adverse effect on scenic quality.
Landscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.	Does this view contain elements that contribute to visual clutter?
The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form (proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes)	If yes, how does the visual clutter affect the view? The fence line and chair in the foreground attract one's attention. 4. Movement
General elements of formal visual analysis to be considered include:	Motion of existing and proposed elements in a view can attract viewer attention.
Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by	Does this view contain elements in motion that are likely to attract viewer attention? Yes No
their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions, especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or pehmeral landscapes.	(If the answer is yes, Note these elements in rating form comments)
Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character	Factors affecting visual impact:
of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by	5. Duration of View
edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to	Some views are seen as quick glimpses while driving along a roadway or hiking a trail, while others are seen for a more prolonged period of time. Longer duration views of a project, especially from significant aesthetic resources, have the greatest potential for visual impact.
the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.	The duration of this view is: ☐ Short Term/Fleeting ☑ Long-term
 Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint. 	The frequency of this view is: 🗹 Repeated 🗖 Occasional
 Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors. 	6. Atmospheric Conditions Clouds, precipitation, haze, and other ambient weather-related conditions can affect the visibility of an object or objects. These conditions can greatly impact the visibility and contrast of project components with landscape/seascape elements and the design elements of form, line, color, teature, and scalar.
Principles of composition to be considered include:	Conditions in this view can be described as: ☐ Clear ☐ Partly Cloudy ☐ Overcast ☑ Hazy
1. Focal Point	Conditions that may increase/decrease visibility could be described as: Drier conditions might increase visibility
Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, monutains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape.	7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming toward the observer from behind a feature or elements in a scene. Front lighting refers to a situation where the light source is coming from behind the observer an falling directly upon the area being viewed. Site lighting refers to a viewing situation in which sunlight is coming from overhead or the side of the observer to a feature or elements in a scene, Lighting direction can have a significant effect on the visibility and contrast of landscape and project elements.
Does this view contain a focal point? ☑ Yes ☐ No	
If yes, briefly identify/describe: The tall beach lookout chair anchors this view.	The relevant lighting condition can be described as: backlit frontlit side-lit
2. Order Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.	Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that there is broad public consensus on the value of that particular resource. The characteristics of the resource that contribute to its scenic or recreational value provide guidance in evaluating a project's visual impact on that resource.
Does this view contain a natural order?	Would viewers consider this location a valued scenic or recreational resource? 🗹 Yes 🗆 No
The layering of shoreline, open water and horizon create a natural order	How would the site be used for scenic or recreational enjoyment? This area will be used by nearby homeowners and visitors for recreation and views.
ATLANTIC SHORES 1 of 6	ATLANTIC SHORES offshore wind

		How would the site be used for scenic or recreational enjoyment? This area and view	a will be used by nearby homeowners and visitors for re ws.	creation
ATLANTIC SHORES offshore wind	1 of 6	ATLANTIC SHORES offshore wind		2 of 6
Visual Impact Assessment Personnel: Jocelyn G	Savitt	Visual Impact Assessment	Personnel: Jocelyn Gavi	itt
KOP: BHB01 Be	each Haven_	'	KOP: BHB01 Beach	h Haven
Existing Conditions		Proposed Conditions	Date: 2/16/21	
1. In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1 liability to 9 distinct)		With the proposed project in place, rate the aesthetic quality/sensitivity of eac	h resource on a score of 1 to 9 (1 liability to 9 (distinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact otherwise, rating should be a whole number score.),	Score
	Score		Water Resources:	3
Water Resources:	9		Landform:	4
Landform:	5		Vegetation:	4
Vegetation:	5		Land Use:	3
Land Use:	7		User Activity:	3
User Activity:	7			
Existing Conditions #1 Total:	33	2. Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct)	
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high density)		Note: Special Conditions score is taken directly from Existing Conditions #2 Total and of be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	5
Special Condition A. Does this zone contain any scenic, cultural, or historic landmarks?	3			
Special Condition B. Are there other aesthetic elements that add to this resource?	2		Total:	22
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/pollution)				
Special Condition C. Is this zone free from pollution and/or litter?	3	3. Comments:		
Existing Conditions #2 Total (Sum 2A through 2C)	8	The open ocean view is dominated by a very large field of turbines that will be in motion. Unegative impact on the view. The perspective of the arrangement of the structures create simulation and one could expect that clearer conditions or alternative lighting could increase	es new lines in the view. The conditions appear to b	
Existing Conditions Grand Total (Sum #1 Total and #2 Total) 3. Comments:	41			
This is a pristine open water view that will be seen by users for extended periods of time. The open water view dominates the landscape with the waves animating the scene. There is some visual clutter in the foreground, consisting of fences and roads, that will likely host human me this area tends to act as a somewhat cohesive element because most of the horizontal lines within it are parallel to the shoreline. The side chair anchors the view in the foreground.	novement and activity.			

Personnel: Jocelyn Gavitt Visual Impact Assessment KOP: BHB01 Beach Haven Date: 2/16/21 **Proposed Conditions - Compatibility and Contrast Rating** Note: If an element is not present in the view the score should be a 0 (no impact), otherwise, rating should be a whole number score. 4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible) Land Use: Water Resources: 3 2 Landform: 1 User Activity: 2 Total: Vegetation 9 5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) Water Resources: 3 Land Use: 2 Landform: 1 User Activity: 2 Vegetation: 1 Total: 9 6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominant) Water Resources Land Use: 2 User Activity: Landform 2 Total: Vegetation: 11 7 Comments:

The general appeal of this particular landscape is its open water views. This will change dramatically with the view being occupied by the proposed field of turbines. These proposed turbines create a significant "built" presence in an otherwise natural landscape. The level of contrast in this view, despite the visible nature of the turbines, is lower due to almospheric and lighting conditions.

ATLANTIC SHORES

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Visual	Impact	Assessi	men

Personnel: Jocelyn Gavitt

KOP: BHB01 Beach Haven

Date: 2/16/21

Proposed Conditions

8. Visibility Threshold Level - Check the box next to the description that most closely describes the visual prominence of the Project from the selected KOP,

Visibility Rating	Description	
Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more loosely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	
Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major forcus of visual faterition, drawing viewer attention immediately and tending to hold that attention. In addition to strong contrasts in form, line, color, and texture bright light sources such as lighting and reflectionst and moving objects associated with the study subject may contribute substantially of admain given extention. The visual promisence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	✓
Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by furning one's head more than 45° from a direct view of the object. The object/phenomenon is the major fous of visual attention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, color, and texture, bright [ight sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.	

9. Comments:

The proposed conditions are highly visible, and could become more visible in alternative viewing conditions



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visuai iiiipaci Ass	essment	
Date: 16 February 2021		Personnel: KAC
Landscape Similarity Zone:	Oceanfront Residential	Key Observation Point Name/Number: <u>BHB01 BHaven HD</u>
Key Observation Po	int (KOP) Familiarizati	on
Landscape/seascape, viewer,	and related factors to be considered	ed during evaluation of the KOP are outlined below.
		corporated into the scoring and comments on the VIA assessment form servalions and should be completed quickly, taking no more than 5 minutes,

General elements of formal visual analysis to be considered include:

- Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or ephemeral landscapes.
- Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or lexture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.
- Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint.
- Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors.

Principles of composition to be considered include:

1. Focal Point

Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape.

Does this view contain a focal point? 🗹 Yes 🔲 No

If yes, briefly identify/describe: Fore-ground beach fencing, pink-tinged horizon line and cotton-candy clouds.

2. Order

Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land used/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.

Man-made sand dune control, beach fence, beach and surf, ocean and horizon: the horizontal landscape is punctuated by the repeating vertical fence elements and raillings, which are a visual barrier, and the broken clouds in the sky that compress the view to the center of the image.

visuai	impact Assessment

Personnel:	KAC
KOP:	BHB01 BHaven HD
Date:	16 February 2021

Principles of composition, continued:

•	VISIGN STATES
	Numerous unrelated built elements occurring within a view can create visual clutter (disrupting the natural order), which generally has a adverse effect on scenic quality.
	Does this view contain elements that contribute to visual clutter? 🗹 Yes 🔲 No

4. Movement

Motion of existing and proposed elements in a view can attract viewer attention.

(If the answer is yes, Note these elements in rating form comments)

Factors affecting visual impact:

5. Duration of View

Some views are seen as quick glimpses while driving along a roadway or hiking a trail, while others are seen for a more prolonged period of time. Longer duration views of a project, especially from significant aesthetic resources, have the greatest potential for visual impact.

The duration of this view is: \square Short Term/Fleeting $\boxed{\hspace{-0.1cm} Z\hspace{-0.1cm}}$ Long-term

The frequency of this view is: 🗹 Repeated 🗆 Occasional

6. Atmospheric Conditions

Kallospheric Communities
Clouds, precipitation, haze, and other ambient weather-related conditions can affect the visibility of an object or objects. These conditions
can greatly impact the visibility and contrast of project components with landscape/seascape elements and the design elements of form,
line poler forther, and cools

Conditions that may increase/decrease visibility could be described as: The early morning view has a dark sky, a clear or bright sky

7. Lighting Direction

Backlighting refers to a viewing situation in which sunlight is coming toward the observer from behind a feature or elements in a scene. Front lighting refers to a situation where the light source is coming from behind the observer and failing directly upon the area being viewed. Side lighting refers to a viewing situation in which sunlight is coming from overhead or the side of the observer to a feature or elements in a scene. Lighting direction can have a significant effect on the visibility and contrast of landscape and project elements.

The relevant lighting condition can be described as:		backlit	Ш	frontlit	✓	side-li
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8. Scenic or Recreational Value

Designation as a scenic or recreational resource is an indication that there is broad public consensus on the value of that particular resource. The characteristics of the resource that contribute to its scenic or recreational value provide guidance in evaluating a project's visual impact on that resource.

Would viewers consider this location a valued scenic or recreational resource? 🗹 Yes 🗖 No

How would the site be used for scenic or recreational enjoyment? Beach Haven Historic District



Visual Impact Assessment Personnel: KAC		Visual Impact Assessm	nent Personnel: KAC	
КОР: <i>ВНВ01 В</i>	BHaven HD	Visual impact Assessii	кор: <u><i>ВНВ01 ВН</i></u>	laven HD
Existing Conditions Date: 16 Febru	nary 2021	Proposed Conditions	Date: <u>16 Februar</u>	ry 2021
1. In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1 liability to 9 distinct)		With the proposed project in place, rate the aesthet	ic quality/sensitivity of each resource on a score of 1 to 9 (1 liability to	9 distinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Note: If an element is not present in the view the score si otherwise, rating should be a whole number score.	ould be 4.5 of 9.0 (no impact),	Score
	Score		Water Resources:	6
Water Resources:	7		Landform:	6
Landform:	6		Vegetation:	6
Vegetation:	6		Land Use:	6
Land Use:	7		User Activity:	5
User Activity:	6			
Existing Conditions #1 Total:	32	Collectively rate special conditions on a score of 0 Note: Special Conditions score is taken directly from Exis		
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high density)		be adjusted up or down based upon the Proposed Condi		3
Special Condition A. Does this zone contain any scenic, cultural, or historic landmarks?	2			
Special Condition B. Are there other aesthetic elements that add to this resource?	0		Total:	32
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/pollution)				
Special Condition C. Is this zone free from pollution and/or litter?	1	3. Comments:		
Existing Conditions #2 Total (Sum 2A through 2C)	3	visual impact in this view, at this moment, since a portion of the	rned through the clouds. The side-lit condition as the sun is rising minimizes the ext turbines blend into the seep blue shades of the morning sky and others glow in a gh dark elements dotted along the horizon line. The light colored turbines are visually.	nostly light blue color
Existing Conditions Grand Total (Sum #1 Total and #2 Total) 3. Comments:	35	the viewer into the experience to engage the in between of the	moment between light and dark, when the wind farm transitions from being camoulla ntly greater later in the day, when the turbines are even more clearly articulated aga	iged to fully visible
Cultural Historic: Beach Haven Historic District				
Aesthetic: Wide water view to the horizon over a thin beach in front of the dune vegetation and beach fence, however, it is obstructed by man-man foreground.	de objects int he			
Litter: Beach visitor litter.				
Summary of view: The early morning view across the pedestrian entry to the beach and greater ocean landscape is pleasant and visually appeal foreground railings and beach fencing are both a visual barrier and visual clutter to the initial beach experience. The early morning sty is tinged p atmospheric haze and spotted cloud cover rendering the colors in the view to be deep hues and the ocean a mostly monochromatic deep green clouds.	pink and is heavy with			
ATLANTIC SHORES offshore wind	3 of 6	ATLANTIC SHORES offshore wind		4 of 6
Visual Impact Assessment Personnel: KAC		Visual Impact Assessment	Personnel: KAC	

Visual Impact Assessn	nent Pers	connel: KAC	Visual Impact Assessi	ment Personnel: KAC
Visual impact /155c55ii	Hone	KOP: BHB01 BHaven HD	γ	KOP: BHB01 BHaven HD
Proposed Conditions - Compatibi	lity and Contrast Rating	Date: <u>16 February 2021</u>	Proposed Conditions	Date: 16 February 2021
	element is not present in the view the score should be uld be a whole number score.	a O (no impact), otherwise,	8. Visibility Threshold Level - Check th the selected KOP.	e box next to the description that most closely describes the visual prominence of the Project from
Rate the compatibility of the proposed project on a	a scale of 1 to 3 (1 compatible to 3 not compatible)		Visibility Rating	Description
Water Resources:	2 Land Use:	2	Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.
Landform: Vegetation:	2 User Activity: Total:	9	Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.
5. Rate scale contrast of the proposed project on a s			Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.
Water Resources: Landform: Vegetation:	2 Land Use: 2 User Activity: 1 Total:	2 2 9	Visibility level 4. Plainty visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/chenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.
Rate spatial dominance of the proposed project or Water Resources: Landform: Vegetation:	n a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 c Land Use: User Activity: Total:	2 2 9	Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the storing contrast in form, line, color, or texture, luminance, or motion.	so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to strong contrasts in form, line, color, and texture,
7. Comments: Compatibility. The morning light conditions minimize the visue			Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by turning ones head more than 458 from a direct view of the object. The object/phenomenon is hemain focus of visual altertion, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, color, and etune, triplit light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.
Scale: The foreground elements are greater in perceived visus	0 7 0	a any.		
Spatial Dominance: The lightness of the turbines against the		and the state of t		
therefore, the turbines are not spatially dominant due to the ca		n rack of patterning in the turbine massing,	9. Comments:	
			N/A	



Visual Impact Assessment		Visua	I Impact Assessment	Personn	iel: KV
•	1/1/		•	KC	P: BHB01 Beach Haven
Date: <u>02-17-2021</u>	Personnel: KV	Prin	ciples of composition, continued:	Da	ite: 02-17-2021
andscape Similarity Zone: Oceanfront Residential Key Observation	ion Point Name/Number: <u>BHB01 Beach Haver</u>		Visual Clutter		
Key Observation Point (KOP) Familiarization			Numerous unrelated built elements occurring within a vadverse effect on scenic quality.		order), which generally has an
andscape/seascape, viewer, and related factors to be considered during evaluation of	f the KOP are outlined below.		Does this view contain elements that contribute to	visual clutter? 🗹 Yes 🗀 No	
The effect of the proposed Project on these factors should be incorporated into the sc proposed conditions). (This form is intended to record initial observations and should		rtes) 4.	If yes, how does the visual clutter affect the view? Movement	varied and bisecting lines from built elements add both view, the lines encourage the eye to move throughout	
General elements of formal visual analysis to be considered include:			Motion of existing and proposed elements in a view car	n attract viewer attention.	
Landscape/Seascape Composition: The arrangement of objects and voids	in the landscape that can be categorized by		Does this view contain elements in motion that are	e likely to attract viewer attention?	No
their spatial arrangement. Basic landscape components include vegetation, I especially those that are distinctly food, enclosed, detailed, or feature-oriente panoramic, canopied, or ephemeral landscapes.			(If the answer is yes, Note these elements in rating	g form comments)	
Form, Line, Color, and Texture: These are the four major compositional ele	ments that define the perceived visual character	Fac	ors affecting visual impact:		
of a landscape/seascape, as well as a project. Form refers to the shape of ar	object that appears unified, often defined by	5.	Duration of View		
edge, outline, and surrounding space. Line refers to the path the eye follows or texture, usually evident as the edges of shapes or masses in the landscap	e/seascape. Texture, in this context, refers to		Some views are seen as quick glimpses while driving of time. Longer duration views of a project, especially	along a roadway or hiking a trail, while others are s from significant aesthetic resources, have the great	een for a more prolonged period test potential for visual impact.
the visual surface characteristics of an object. The extent to which form, line, contrast with these same elements in the existing landscape/seascape is a p			The duration of this view is: Short Term/Flee		
 Spatial Dominance: The degree to which an object or landscape/seascape and thus dominates seascape composition from a specific viewpoint. 	element occupies space in a landscape/seascape		The frequency of this view is: Repeated	Occasional	
 Project Scale: The apparent size of a proposed project in relation to its surre within the existing seascape. Perception of project scale is likely to vary depe other contextual factors. 		6.	Atmospheric Conditions Clouds, precipitation, haze, and other ambient weather can greatly impact the visibility and contrast of project line, color, texture, and scale.		
Principles of composition to be considered include:			Conditions in this view can be described as: $\ \square$	Clear Partly Cloudy Dovercast Hazy	
1. Focal Point			Conditions that may increase/decrease visibility of	could be described as: clear even skies could increase	
Certain natural or man-made landscape/seascape features stand out and ar physical characteristics. Focal points often contrast with their surroundings i		7.	Lighting Direction	variability make some turbine of	usters contrast more or less
pnysical characteristics. Focal points offen confirst with meta surroundings it lend to draw a viewer's attention. Examples include prominent trees, mount lighthouse. If possible, a proposed project should not be sited so as to obsci in the landscape/seascape.	ains, or cultural features, such as a distinctive		Backlighting refers to a viewing situation in which sunl Front lighting refers to a situation where the light soun viewed. Side lighting refers to a viewing situation in wi elements in a scene. Lighting direction can have a sig	ce is coming from behind the observer and falling di hich sunlight is coming from overhead or the side of	irectly upon the area being f the observer to a feature or
Does this view contain a focal point? ✓ Yes No					
If yes, briefly identify/describe: while ocean meeting horizon serves as a primary	focal point, the fencing, lifeguard stand, etc, are also a focal		The relevant lighting condition can be described as:	☑ backlit ☐ frontlit ☑ side-lit	
2. Order					
Natural landscapes/seascapes have an underlying order determined by nat by displaying traditional or logical patterns of land use/development. Elemer this natural order may detract from scenic quality. When a new project is into are maintained through the repetition of the forms, lines, colors, and texture- environment.	its in the landscape that are inconsistent with oduced to the landscape, intactness and order	8.	Scenic or Recreational Value Designation as a scenic or recreational resource is an resource. The characteristics of the resource that con visual impact on that resource.	indication that there is broad public consensus on tribute to its scenic or recreational value provide gu	the value of that particular idance in evaluating a project's
Does this view contain a natural order? ☑ Yes ☐ No If yes, how does the natural order affect the view?			Would viewers consider this location a valued scenic	or recreational resource? 🗹 Yes 🔲 No	
natural order serves to help circulate the viewers gaze throughout the image despite th	e high value contrast of the shadowed railings and fencing		How would the site be used for scenic or recreational	enjoyment? this area is an NRHP Historic District and ocean and to access the shoreline beach.	
ATLANTIC SHORES offshore wind	1.		ANTIC SHORES offshore wind		2 of 6

Visual Impact Assessment	Personnel: KV	
Visual impast / issessiment	KOP: BHB01 Beac	h Haven
Eviation Conditions	Date: 02-17-2021	
Existing Conditions 1. In the existing view rate the aesthetic quality/sensitivity of each resource on a	score of 1 to 9 (1 liability to 9 distinct)	
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact be a whole number score.		
		Score
	Water Resources:	6
	Landform:	7
	Vegetation:	6
	Land Use:	6
	User Activity:	6
	Existing Conditions #1 Total:	31
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 be	ing high density)	•
Special Condition A. Does this zone contain any scen	ic, cultural, or historic landmarks?	2
Special Condition B. Are there other aesthetic el	ements that add to this resource?	1
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 f $$	ree of litter/pollution)	
Special Condition C. Is this zon	ne free from pollution and/or litter?	3
Existing Condition	s #2 Total (Sum 2A through 2C)	6
Existing Conditions Grand T 3. Comments:	otal (Sum #1 Total and #2 Total)	37
Movement attracting viewer attention: Ocean waves		
The existing view at this location takes advantage of a colorful horizon just after sunrise, a Oceanfront Residential areas are a primary land use within this study area, many of which natural and man-made, serve as protective measures and are common to this type of view but protecting the residences behind them. Young dune grasses, sand fencing, and highly stands and safely signage protect users in the scene. These elements entiven and compile integral parts of an average Oceanfront Residential scene.	have similarities with this location. Much of the elem- r. The rolling dune landform not only assists in holdin constructed beach access points protect these dune	ents in this view, g the shoreline s. Lifeguard
This area is within a NRHP district, the high sloping dunes are well maintained, and the vie pollution/litter.	w is generically in a well maintained area free from v	risible

Visual Impact Assessment	Personnel: KV	
Visual impuot / issossimont	KOP: BHB01 Beach	h Haven 🖁
Proposed Conditions	Date: 02-17-2021	
1. With the proposed project in place, rate the aesthetic quality/sensitivity of each resource	e on a score of 1 to 9 (1 liability to 9 c	listinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Score
	Water Resources:	4
	Landform:	5
	Vegetation:	5
	Land Use:	5
	User Activity:	5
	Total:	30
3. Comments:		
While the existing scene has a primary focus on elements which serve in support of ocean viewing, it viewing the WTGs. The back-lift side-lift turbines sit as dark silhouettes on the horizon with grey-ish bit darken the turbines blend with the sky, but are highlighted with a white glow from side-lift components manner that could be complimentary for some, but distanting for others.	ue hues break up the pink horizon. Where	the sky begins
Turbines break-up the open horizon and heavy substations sit as blocks in the distance. While the ve of turbines the viewer is likely to be distracted from them and focus on the arrangement of the turbine methodical movement of the turbine blades will likely hold the viewer attention.		
Turbines break-up the open horizon and heavy substations sit as blocks in the distance. While the ve of turbines the viewer is likely to be distracted from them and focus on the arrangement of the turbine		

Visual Impact Assessment Programme P	ersonnel: KV	Visual Impact Assessr	nent Personnel: <u>KV</u>
'	KOP: BHB01 Beach Haven ₩		KOP: <u>BHB01 Beach Haven</u>
Proposed Conditions - Compatibility and Contrast Rating	Date: <u>02-17-2021</u>	Proposed Conditions	Date: 02-17-2021 e box next to the description that most closely describes the visual prominence of the Project from
Note: If an element is not present in the view the score should rating should be a whole number score.	be a 0 (no impact), otherwise,	the selected KOP.	e oox next to the description that most closely describes the visual profilmence of the Project Hom
4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible	e)	Visibility Rating	Description
Water Resources: 3 Land Use:	3	Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.
Landform: 2 User Activity: Vegetation: 2 Total:	3 13	Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers: however, most people would not notice it without some a
5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe)		Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.
Water Resources: 3 Land Use:	2	observers. Visibility level 4. Plainly visible, so could	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other
Landform: 2 User Activity: Vegetation: 2 Total:	11	onto be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of	An Objecty plentoment in test shows as in with sauricent size or contacts of contribute with outer landscape beared per landscape beared to the insufficient value contracts to strongly attact visual attention and insufficient size to occupy most of an observer's visual field.
		the study subject.	
6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant,	3 dominant)	Visibility level 5. Strongly attracts the visual attention of views in the general direction of	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and
Water Resources: 3 Land Use:	2	the study subject. Attention may be drawn by the strong contrast in form, line, color, or	be always that is a timple recast in state attention, in addition to strong contrasts in form, line, color, and texture, bright light sources such as lighting and reflections and moving objects associated with the study
Landform: 2 User Activity: Vegetation: 2 Total:	2	texture, luminance, or motion.	subject may contribute substantially to drawing viewer attention. The visual prominence of the 'study subject interferes noticeably with views of nearby landscape/seascape elements.
7. Comments:		Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, lexture, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual floid, and views of it cannot be avoided except by turning one's head more than 45° from a direct view of the object. The object/phenomenon is the major flocus of visual attention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in from, line, cofur, and teature, bright light sources and moving objects associated with the study subject may contribute substantially to during viewer attention. The visual prominence of the study subject may contribute substantially to during viewer attention. The visual prominence of the study subject directors for indicately from views of other landscapelescape elements.
Turbines in the proposed view are primarily not compatible with the scene, however the echo of horizontal lines for strong vertical growth pattern lend to somewhat compatibility.	om the sand fencing and vegetation with a		
the distance of the turbines minimizes their scale contrast leading a primarily moderate contrast.			
The WTGs and amount of space they hold on the visible horizon become co-dominant with other elements in the previously was a primary focus of viewer attention, and the turbines are now likely to be a primary focus the turbin the water resources.		9. Comments:	
III: Wallo I (CSULL CS.		as described under VTL "drawing viewer att	ention immediately and tending to hold that attention."

Visual Impact Assessment	
Date: February 18, 2021	Personnel: Steve Breitzka
Landscape Similarity Zone: <u>Oceanfront Residential</u>	Key Observation Point Name/Number: BHB01
Key Observation Point (KOP) Familiarizati	on
Landscape/seascape, viewer, and related factors to be consider	red during evaluation of the KOP are outlined below.
	corporated into the scoring and comments on the VIA assessment form servations and should be completed quickly, taking no more than 5 minutes)
General elements of formal visual analysis to be consid	dered include:
their spatial arrangement. Basic landscape component	nt of objects and voids in the landscape that can be categorized by s include vegetation, landform, water, and sky, Some compositions, silled, or feature-oriented, are more vulnerable to modifications than
of a landscape/seascape, as well as a project. Form re edge, outline, and surrounding space. Line refers to th or lexture, usually evident as the edges of shapes or m the visual surface characteristics of an object. The exte	tajor compositional elements that define the perceived visual character fers to the shape of an object that appears unified, often defined by path the eye follows when perceiving abrupt changes in form, color, asses in the landscape/seascape. Texture, in this context, refers to ent to which form, line, color, and texture of a project are similar to or scape/seascape is a primary determinant of visual impact.
 Spatial Dominance: The degree to which an object or and thus dominates seascape composition from a spec 	landscape/seascape element occupies space in a landscape/seascape cific viewpoint.
	ct in relation to its surroundings can define the compatibility of its scale le is likely to vary depending on the distance from which it is seen and
Principles of composition to be considered include	9:
1. Focal Point	
physical characteristics. Focal points often contrast wi tend to draw a viewer's attention. Examples include pr	tures stand out and are particularly noticeable as a result of their th their surroundings in color, form, scale, or texture, and therefore ominent trees, mountains, or cultural features, such as a distinctive be sited so as to obscure or compete with important existing focal points
Does this view contain a focal point? Yes	☐ No
If yes, briefly identify/describe:	
2. Order	
by displaying traditional or logical patterns of land use this natural order may detract from scenic quality. Whe	der determined by natural processes. Cultural landscapes exhibit order (development. Elements in the landscape that are inconsistent with en a new project is introduced to the landscape, intactness and order is, colors, and textures existing in the surrounding built or natural
Does this view contain a natural order?	

Visual Impact Assessment	Personnel: Steve Breitzka
Tioudi III paoti iososomoni	KOP: <u>BHB01</u>
Principles of composition, continued:	Date: February 18, 2021
3. Visual Clutter	buto
Numerous unrelated built elements occurring within a view adverse effect on scenic quality.	can create visual clutter (disrupting the natural order), which generally has an
Does this view contain elements that contribute to visual	al clutter? 🔲 Yes 🔽 No
	nere is "clutter" in this view (boardwalk railling, dilapidated shoreline fence, signage, nd lifequard chair) but it is not significant enough to disrupt any kind of natural order.
4. Movement	
Motion of existing and proposed elements in a view can attr	act viewer attention.
Does this view contain elements in motion that are likely	y to attract viewer attention? 🗹 Yes 🔲 No
(If the answer is yes, Note these elements in rating for	n comments)
Factors affecting visual impact:	
5. Duration of View	
	g a roadway or hiking a trail, while others are seen for a more prolonged period significant aesthetic resources, have the greatest potential for visual impact.
The duration of this view is: $\ \square$ Short Term/Fleeting	☑ Long-term
The frequency of this view is: 🗹 Repeated 🗆 Oc	casional
6. Atmospheric Conditions	
	ated conditions can affect the visibility of an object or objects. These conditions ponents with landscape/seascape elements and the design elements of form,
Conditions in this view can be described as:	r ☑ Partly Cloudy ☐ Overcast ☐ Hazy
Conditions that may increase/decrease visibility could	be described as: There is a haze hovering over the water and the lighting
7. Lighting Direction	creates a warm glow over the whole scene.
Backlighting refers to a viewing situation in which sunlight i Front lighting refers to a situation where the light source is viewed. Side lighting refers to a viewing situation in which:	s coming toward the observer from behind a feature or elements in a scene. coming from behind the observer and falling directly upon the area being sumight is coming from overhead or the side of the observer to a feature or int effect on the visibility and contrast of landscape and project elements.
The relevant lighting condition can be described as:	backlit ☐ frontlit ☑ side-lit
	cation that there is broad public consensus on the value of that particular e to its scenic or recreational value provide guidance in evaluating a project's
Would viewers consider this location a valued scenic or rec	creational resource? 🛮 Yes 🗖 No
How would the site be used for scenic or recreational enjoy	There are residences along the beach presumably to take advantage of the view and the amenities here.
ATLANTIC SHORES	2 of

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6 of 6



ATLANTIC SHORES offshore wind

ATLANTIC SHORES

Visual Im	pact Assessment	Personnel: Steve Breitz	ka	Visual Impact Assessment	Personnel: Steve Breitzka	
	•	KOP: <u>BHB01</u>		Visual impact 163633mont	KOP: <u>BHB01</u>	
Existing Co	onditions	Date: February 18	, 2021	Proposed Conditions	Date: <i>February 18, 20</i>	021
1. In the existing	view rate the aesthetic quality/sensitivity of each resource on a score of	of 1 to 9 (1 liability to 9 distinct)		With the proposed project in place, rate the aesthetic quality/sensitivity of ea	ich resource on a score of 1 to 9 (1 liability to 9 disc	tinct)
Note: If an element be a whole number	nt is not present in the view the score should be 4.5 of 9.0 (no impact), othen er score.	vise, rating should		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impa otherwise, rating should be a whole number score.	ct),	Score
			Score		Water Resources:	1
		Water Resources:	9		Landform:	5
		Landform:	5		Vegetation:	5
		Vegetation:	5		Land Use:	1
		Land Use:	9		User Activity:	1
		User Activity:	9			
	Exi	sting Conditions #1 Total:	37	 Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distin Note: Special Conditions score is taken directly from Existing Conditions #2 Total and 		
2. Respond to ea	ach question below using a score of 0 to 3 (0 not present to 3 being high	density)		be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	1
S	Special Condition A. Does this zone contain any scenic, cult	ural, or historic landmarks?	1			
	Special Condition B. Are there other aesthetic element	s that add to this resource?	0		Total:	14
Respond to each	n question below using a score of 0 to 3 (0 littered/polluted to 3 free of li	tter/pollution)				
	Special Condition C. Is this zone free	from pollution and/or litter?	1	3. Comments:		
	Existing Conditions #2 T	otal (Sum 2A through 2C)	2	The proposed turbine field breadth is significant, capturing the majority of the horizon. A turbines, increasing their visibility and presence. The turbines on the left side of the view point where head on view of row looks tree-like. The low side-light makes the turbines or	are stacked in way that makes their appearance more de	ense, to the
3. Comments:	Existing Conditions Grand Total (S	Sum #1 Total and #2 Total)	39	horizon haze masks the turbines on the right side, blending the individual structures into		nateu. Tile
provides a warmth fence line, and sig use.	I three-story multi-family residential buildings in this area taking advantage of the to everything and a translucency to the cresting waves. The view out over the w pnage), although turning 180 degrees completely alters the calm nature of this score sky has a dense grayish pink haze at the horizon, creating a mattle backdrop before the contract of the contrac	vater is free from significant development (c ene with the presentation of a dense urban	only a boardwalk, residential land			
ATT - 1.5				AT ANTIG GLOOM		
	TIC SHORES offshore wind		3 of 6	ATLANTIC SHORES offshore wind		4 of 6
Vicual	Impact Accessment	Personnel: Steve Breitz	rka	Visual Impact Assessment	Personnel: Steve Breitzka	

Visual Impact Assess	sment	Pe	ersonnel: Steve Breitzka
			KOP: <u>BHB01</u>
Proposed Conditions - Compat	ihility and Cont	rast Rating	Date: February 18, 20
	,	Ü	
	lf an element is not preser should be a whole numbe	t in the view the score should i score.	be a 0 (no impact), otherwise,
Rate the compatibility of the proposed project	on a coole of 1 to 2 /1 or	mantible to 2 not competible	۵)
Water Resources:		Land Use:	
	3		3
Landform:	1	User Activity:	3
Vegetation:	1	Total:	11
5. Rate scale contrast of the proposed project on	a scale of 1 to 3 (1 mini	mal to 3 severe)	
Water Resources:	3	Land Use:	3
Landform:	1	User Activity:	3
Vegetation:	1	Total:	11
6. Rate spatial dominance of the proposed project	ct on a scale of 1 to 3 (1	subordinate, 2 co-dominant,	3 dominant)
Water Resources:	2	Land Use:	3
Landform:	2	User Activity:	3
Vegetation:	3	Total:	13
	_		
7. Comments:			

roposed Conditions Visibility Threshold Level - Check the e selected KOP.	box next to the description that most closely describes the visual prominence of the Pr	oject from
Visibility Rating	Description	
/isibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
fisibility level 2. Visible when scanning in the general direction of the study subject; therwise likely to be missed by casual ibservers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	
/isibility level 4. Plainly visible, so could not be missed by casual observers, but does of strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
/isibility level 5. Strongly attracts the visual attention of views in the general direction of he study subject. Attention may be drawn by the strong contrast in form, line, color, or exture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to strong contrasts in form, line, color, and lexture, bright injury contribute substantially of orwandy element and moving objects associated with the study subject may contribute substantially of orwandy element affection. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	✓
Visibility level 6. Dominates the view pecause the study subject fills most of the risual field for views in its general direction. Strong contrasts in form, line, color, texture, uminance, or mollon may contribute to riew dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by turning one's head more than 45' from a direct view of the object. The object/phenomenon is femal forcus of visual altertation, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, cold, and better, bright light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject dieracts noticeably from viewer of other landscaped-gesescape elements.	





Visual Impact Assessment	Visual Impact Assessment Personnel: Jocelyn Gavitt	
'	KOP: <u>BHB02 Center Street</u>	t 🗈
Date: 08/22/22 Personnel: Jocelyn Gavitt	Principles of composition, continued: Date: 08/22/22	_
Landscape Similarity Zone: Oceanfront Residential Key Observation Point Name/Number: BHB02 Center Street	Visual ClutterNumerous unrelated built elements occurring within a view can create visual clutter (disrupting the natural order), which generally has a	
Key Observation Point (KOP) Familiarization	adverse effect on scenic quality.	
Landscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.	Does this view contain elements that contribute to visual clutter? 🗹 Yes 🔲 No	
The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form	If yes, how does the visual clutter affect the view? there are some elements (vegetation/ fencing) on the dunes in the foreground that grab ones attention.	
(proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes)	4. Movement	
General elements of formal visual analysis to be considered include:	Motion of existing and proposed elements in a view can attract viewer attention.	
Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by the control processor of the composition of the control processor of the contr	Does this view contain elements in motion that are likely to attract viewer attention? 🛮 Yes 🗖 No	
their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions, especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or ephemeral landscapes.	(If the answer is yes, Note these elements in rating form comments)	
Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character	Factors affecting visual impact:	
of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color,	5. Duration of View	
or lexture, usually evident as the edges of shapes or masses in the landscapelseascape. Texture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or	Some views are seen as quick glimpses while driving along a roadway or hiking a trail, while others are seen for a more prolonged peri of time. Longer duration views of a project, especially from significant aesthetic resources, have the greatest potential for visual impact	
contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.	The duration of this view is: ☐ Short Term/Fleeting ☑ Long-term	
Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint.	The frequency of this view is: ☑ Repeated ☐ Occasional	
Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale	6. Atmospheric Conditions	
within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors.	Clouds, precipitation, haze, and other ambient weather-related conditions can affect the visibility of an object or objects. These conditions can greatly impact the visibility and contrast of project components with landscape/seascape elements and the design elements of forn line, color, texture, and scale.	
Principles of composition to be considered include:	Conditions in this view can be described as: ☐ Clear ☑ Partly Cloudy ☐ Overcast ☐ Hazy	
1. Focal Point	Conditions that may increase/decrease visibility could be described as: Clear conditions would increase view	
Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their	7. Lighting Direction	
physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape.	Backlighting refers to a viewing situation in which sunlight is coming toward the observer from behind a feature or elements in a scene. Front lighting refers to a situation where the light source is coming from behind the observer and falling directly upon the area behing viewed. Side lighting refers to a viewing situation in which sunlight is coming from overhead or the side of the observer to a feature or	
Does this view contain a focal point? ☐ Yes ☑ No	elements in a scene. Lighting direction can have a significant effect on the visibility and contrast of landscape and project elements.	
If yes, briefly identify/describe:		
2. Order	The relevant lighting condition can be described as:	
Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order	8. Scenic or Recreational Value	
by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order	Designation as a scenic or recreational resource is an indication that there is broad public consensus on the value of that particular	
are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.	resource. The characteristics of the resource that contribute to its scenic or recreational value provide guidance in evaluating a project visual impact on that resource.	ŝ
Does this view contain a natural order? ☑ Yes ☐ No If yes, how does the natural order affect the view?	Would viewers consider this location a valued scenic or recreational resource? 🗹 Yes 🗆 No	
There is a basic layering of sky, horizon, ocean, beach and dune area. The layers are skewed slightly in a perspective moving to the right side of the view.	How would the site be used for scenic or recreational enjoyment? This view will be used by nearby residents and visitors for recreational enjoyment and viewing.	
ATLANTIC CHOOSE		
ATLANTIC SHORES 1 of 6	ATLANTIC SHORES offshore wind	2 of

Visual Impact Assessment	Personnel: <u>Jocelyn Gar</u> KOP: <u>BHB02 Cen</u>		Visual Impac
	Date: 08/22/22		
Existing Conditions	Date. OUIZE/ZZ		Proposed Conditio
1. In the existing view rate the aesthetic quality/sensitivity of each resource on a s			1. With the proposed project i
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), be a whole number score.	otherwise, rating should		Note: If an element is not prese. otherwise, rating should be a wi
		Score	
	Water Resources:	9	
	Landform:	5	
	Vegetation:	4.5	
	Land Use:	8	
	User Activity:	9	
	Existing Conditions #1 Total:	35.5	Collectively rate special co
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being	g high density)		Note: Special Conditions score be adjusted up or down based u
Special Condition A. Does this zone contain any scenic	, cultural, or historic landmarks?	3	
Special Condition B. Are there other aesthetic ele	ments that add to this resource?	2	
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 fre	e of litter/pollution)		
Special Condition C. Is this zone	e free from pollution and/or litter?	3	3. Comments:
Existing Conditions	#2 Total (Sum 2A through 2C)	8	This open water view is now domin component to the landscape. View nature view. The turbines are high
Existing Conditions Grand Tol	tal (Sum #1 Total and #2 Total)	43.5	·

Personnel: Jocelyn Gavitt ct Assessment KOP: BHB02 Center Street Date: 08/22/22 in place, rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1 liability to 9 distinct) ent in the view the score should be 4.5 of 9.0 (no impact), whole number score. Score Water Resources: 2 Landform: 3 Vegetation: 4.5 Land Use: 3 User Activity: 2 onditions on a score of 0 to 9 (0 liability to 9 distinct) e is taken directly from Existing Conditions #2 Total and can I upon the Proposed Conditions view. Special Conditions: 5 Total: 19.5 inated by a large field of highly visible furbines that form their own patterns. They become the focus of the view and lend an industrial ewers will be affected by the presence of the furbines, likely in a negative manner. They create significant contrast to the existing open pibly visible in all lighting conditions and the magnitude of the field extends across the horizon line.



Visual Impact Assessment Pers	sonnel: <i>Jocelyn Gavitt</i> KOP: <i>BHB02 Center Street</i>	Visual Impact Assessn	nent Personnel: <u>Jocelyn Gavitt</u> KOP: BHB02 Center Street 🛍
Proposed Conditions - Compatibility and Contrast Rating Note: If an element is not present in the view the score should be rating should be a whole number score.	Date: 08/22/22	Proposed Conditions 8. Visibility Threshold Level - Check the the selected KOP.	Date: 08/22/22 box next to the description that most closely describes the visual prominence of the Project from
4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible)		Visibility Rating	Description
Water Resources: 3 Land Use:	2	Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and booking for it. Even under those circumstances, the object can be seen only after looking at it doesly for an exherted period.
Landform: 1 User Activity: Vegetation: 0 Total:	8	Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.
Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) Water Resources: 3 Land Use:	2	Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.
Landform: 1 User Activity: Vegetation: 0 Total:	2 8	Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly afterd visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.
6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 c Water Resources: Land Use: Landform: Vegetation: O Total:	2 2 9	Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition is strong, contrasts in form, line, color, and texture, bright light sources such as lighting and reflections! and moving objects associated with the study subject may contribute substantially of drawing viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements.
7. Comments: The open natural water view is interrupted by a large imposing industrial field of turbines extending across the horizon line: ordered to chaotic as one moves ones head back and forth. The contrast is high and the turbines dominate the view.		Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in Is general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by furning one's head more than 468 from a direct view of the object. The object/phenomenon is the mappir locus of visual altertion, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, coirt, and teture, tright light sources and moving objects associated with the study subject may contribute substantially to drawing viewer afterition. The visual prominence of the study subject detracts noticeably from views of other landscape/seasscape elements.
		9. Comments:	

Visual Impact Assessment

Date: 22 August 2022 Personnel: KAC

Landscape Similarity Zone: Oceanfront Res, Seascape Key Observation Point (KOP) Familiarization

Landscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.

The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form (proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes)

 $\label{thm:constraints} \textbf{General elements of formal visual analysis to be considered include:}$

- Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by
 their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions,
 especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than
 panoramic, canopied, or ephemeral landscapes.
- Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.
- Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint.
- Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors.

Principles of composition to be considered include:

1. Focal Point

ATLANTIC SHORES

Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape.

Does this view contain a focal point? 🗹 Yes 🔲 No

If yes, briefly identify/describe: Open beach view with sand fence in foreground and pink-tinged sunset with fluffy clouds in background.

2. Order

Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.

Does this view contain a natural order?
Yes No If yes, how does the natural order affect the view?

Man-made dune control, sand fence, beach and surf, ocean and horizon. Foreground view is punctuated by the repeating vertical fence posts, the midground waves accentuate the horizontal alignments in the ocean, sand, and sky.

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sual Impact Assessment	Personnel: KAC
, , , , , , , , , , , , , , , , , , , ,	KOP: <u>BHB02</u>
Principles of composition, continued:	Date: 22 August 2022
Visual Clutter Numerous unrelated built elements occurring within a view can create visual clutt adverse effect on scenic quality.	ter (disrupting the natural order), which generally has an
Does this view contain elements that contribute to visual clutter? $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	□ No
If yes, how does the visual clutter affect the view? Sand fence rails and post	s
Movement Motion of existing and proposed elements in a view can attract viewer attention.	
Does this view contain elements in motion that are likely to attract viewer attr	ention? 🗹 Yes 🗆 No
(If the answer is yes, Note these elements in rating form comments)	
Factors affecting visual impact:	
Duration of View Some views are seen as quick glimpses while driving along a roadway or hiking of time. Longer duration views of a project, especially from significant aesthetic.	
The duration of this view is: Short Term/Fleeting Long-term	
The frequency of this view is: $\ \ \ \ \ \ \ \ \ \ \ \ \ $	
6. Atmospheric Conditions Clouds, precipitation, haze, and other ambient weather-related conditions can all can greatly impact the visibility and contrast of project components with landsca line, color, texture, and scale.	
Conditions in this view can be described as: Clear Partly Cloudy	Overcast 🗹 Hazy
Conditions that may increase/decrease visibility could be described as: Lac	k of cloud cover; clear sky conditions
7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming toward the Front lighting refers to a situation where the light source is coming from behind t viewed. Side lighting refers to a viewing situation in which sunlight is coming fror elements in a scene. Lighting direction can have a significant effect on the visibil	he observer and falling directly upon the area being m overhead or the side of the observer to a feature or
The relevant lighting condition can be described as: 🗹 backlit 🔽 frontlit	☑ side-lit
Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that there is bror resource. The characteristics of the resource that contribute to its scenic or recreasual impact on that resource.	
Would viewers consider this location a valued scenic or recreational resource?	☑ Yes ☐ No
How would the site be used for scenic or recreational enjoyment? Beach Haven	Historic District

the focus of the viewer. The patterns created by the receding rows in perspective create a level of intrigue, as the order and alignment is clear from some directions and

ses rows. Visibility reduces during sunset hours as the lighting creates a less contrasting condition

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1 of 6

then appears to fall out of order as the view cro

ATLANTIC SHORES

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Visual Impact Assessment Personnel:			Visual Impact Assessment		Personnel: KAC	
KOP:	BHB02		•		KOP: <i>BHB02</i>	
Existing Conditions	22 August 202	22	Proposed Conditions		Date: 22 August 20.	22
In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1 liability to 9 di	istinct)		With the proposed project in place, rate the aesthetic quality/sensitivity	v of each resource on	a score of 1 to 9 (1 liability to 9 d	istinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.			Note: If an element is not present in the view the score should be 4.5 of 9.0 (no otherwise, rating should be a whole number score.		,	Score
		Score			Water Resources:	5
Water Res	sources:	7			Landform:	6
Lai	ndform:	6			Vegetation:	6
Veg	getation:	6			Land Use:	6
Lar	nd Use:	7			User Activity:	5
User	Activity:	6				
Existing Conditions #	1 Total:	32	Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 Note: Special Conditions score is taken directly from Existing Conditions #2 To			
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high density)			be adjusted up or down based upon the Proposed Conditions view.	iai anu can	Special Conditions:	2
Special Condition A. Does this zone contain any scenic, cultural, or historic land	lmarks?	2				
Special Condition B. Are there other aesthetic elements that add to this res	source?	0			Total:	30
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/pollution)						30
Special Condition C. Is this zone free from pollution and/o	or litter?	1	3. Comments:			
Existing Conditions #2 Total (Sum 2A throu	ugh 2C)	3	The sunrise sky is dominated by the line of backlit turbines along the horizon line. The viewer's attention, in addition to the soothing pallet of sunrise colors that leads the view			
Existing Conditions Grand Total (Sum #1 Total and #2 3. Comments:	2 Total)	35	The Noon view is highly contrasting between the sky, water, sand and fencing, thereby and texture and the waves less dramatic. The addition of the side lit turbines and front another textural element within the view.			
Cultural Historic: Beach Haven Historic District						
Aesthetic: Wide-open water view to the horizon over a compressed beach view due to an elevation change in front of the dune vegeta	ation and sand fence	e.				
Litter: Beach visitor litter.						
Summary of view: The early morning view across the pedestrian entry to the beach and the greater view to the ocean landscape is pi Noon and sunset view are not as visually compelling in color, atmosphere and texture since the noontime sun bleaches out the colors dulled in contrast to the survise view: however, the Noon View has the most dynamic water conditions. The noontime water seems to	s in the view, and the	e sunset view is				
ATLANTIC SHORES offshore wind		3 of 6	ATLANTIC SHORES oftshore wind			4 of 6

ATLANTIC SHORES offshore wind	3 of 6 ATLANTIC SHORES 4 of 6 offshore wind
Visual Impact Assessment Personnel: KAC KOP: BHB02 Date: 22 August 2022 Proposed Conditions - Compatibility and Contrast Rating Note: If an element is not present in the view the score should be a 0 (no impact), otherwise, rating should be a whole number score.	Visual Impact Assessment Personnel: KAC KOP: BHB02 Date: 22 August 2022 Proposed Conditions 8. Visibility Threshold Level - Check the box next to the description that most closely describes the visual prominence of the Project from the selected KOP.
4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible) Water Resources: 3 Land Use: 3	Visibility Rating Visibility level 1. Visible only after extended, close viewing; otherwise invisible. An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.
Landform: 2 User Activity: 3 Vegetation: 1 Total: 12	Visibility level 2. Visible when scanning in the general direction of the study subject through the general direction of the study subject otherwise likely to be missed by casual observers. An object/phenomenon that is very small and/or faint, but when the observer is scanning the other closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers: however, most people would not notice it without some active looking.
S. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) Water Resources: 3 Land Use: 3	Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.
Landform: 2 User Activity: 3 Vegetation: 1 Total: 12	Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.
6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominant) Water Resources: Land Use: User Activity: Table	Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contracts in form, line, color, or leafure, luminance, or motion. An object/phenomenon that is not large but contracts with the surrounding landscape elements so strongly that it is a major focus of visual attention, in drawing viewer attention immediately and tending to hood that attention, in addition to strong contracts in form, line, color, and feature, the properties of the study subject interferes as one as lighting and reflectional and roung objects associated with the study subject interferes noticeably with views of nearby landscapebaseacepe elements.
Vegetation: 1 Total: 11 7. Comments:	Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in 18 general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance. View dominance.
Compatibility: The density of turbines and the industrial footprint on the horizon reduces the aesthetic quality of the view. Scale: The scale of the turbines is based upon the cumulative visual weight of the entire system, versus a singular turbine.	
Spatial Dominance: The vastness of the ocean is in contrast to the visual weight of the turbines. Both have visual weight and spatial dominance in the view.	9. Comments:



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Visual Impact Assessment	Visual Impact Assessment	Personnel: Kiva VanDerGeest
Date: 2022-08-22 Personnel: Kiva VanDerGeest		KOP: <u>BHB02</u>
andscape Similarity Zone: SCA - Ocean Front Resider Key Observation Point Name/Number: BHB02	Principles of composition, continued: 3. Visual Clutter	Date: 2022-08-22
Key Observation Point (KOP) Familiarization	Numerous unrelated built elements occurring within a view can create visual adverse effect on scenic quality.	clutter (disrupting the natural order), which generally has an
andscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.	Does this view contain elements that contribute to visual clutter?	fes No
The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form proposed conditions). (This form is intended to record initial abservations and should be completed quickly, taking no more than 5 minutes)	If yes, how does the visual clutter affect the view? Dune fencing, silt fen these elements and the second of the s	cing, and access point adds minimal clutter to the view. However, the shadows they cast also added interest to the view.
General elements of formal visual analysis to be considered include:	Motion of existing and proposed elements in a view can attract viewer attention	un.
Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by	Does this view contain elements in motion that are likely to attract viewer	attention? 🗹 Yes 🗆 No
their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions, especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or ephemeral landscapes.	(If the answer is yes, Note these elements in rating form comments)	
Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character	Factors affecting visual impact:	
of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by	5. Duration of View	
edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to	Some views are seen as quick glimpses while driving along a roadway or hil of time. Longer duration views of a project, especially from significant aesthe	
the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.	The duration of this view is: ☐ Short Term/Fleeting ☑ Long-term	
 Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint. 	The frequency of this view is: 🗹 Repeated 🗆 Occasional	
 Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors. 	6. Atmospheric Conditions Clouds, precipitation, haze, and other ambient weather-related conditions ca can greatly impact the visbility and contrast of project components with land line, color, teature, and scale.	
Principles of composition to be considered include:	Conditions in this view can be described as: ☐ Clear ☑ Partly Clou	dy Overcast Hazy
1. Focal Point	Conditions that may increase/decrease visibility could be described as:	Haze, overcast conditions
Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent frees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape.	7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming toward Front lighting refers to a situation where the light source is coming from beht viewed. Side lighting refers to a viewing situation in which sunlight is coming elements in a scene. Lighting direction can have a significant effect on the v	nd the observer and falling directly upon the area being from overhead or the side of the observer to a feature or
Does this view contain a focal poin!? ☐ Yes ☑ No		
If yes, briefly identify/describe: there is no central focal point of this view, but rather the open expansiveness of the horizon is the focus.	The relevant lighting condition can be described as: 🗾 backlit 🔲 from	ntlit 🗹 side-lit
2. Order		
Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with	8. Scenic or Recreational Value	
this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.	Designation as a scenic or recreational resource is an indication that there is resource. The characteristics of the resource that contribute to its scenic or visual impact on that resource.	
Does this view contain a natural order? ☑ Yes ☐ No If yes, how does the natural order affect the view?	Would viewers consider this location a valued scenic or recreational resource	e? ☑ Yes ☐ No
Natural order of this view provides the viewer entry into the scene and alludes to the surrounding land uses providing beach access to those in the residential areas just beyond the scene.	How would the site be used for scenic or recreational enjoyment? Public be	achfront
ATLANTIC SHORES 1 of 6	ATLANTIC SHORES offshore wind	2

Visual Impact Assessment	Personnel: Kiva VanDerGeest	
	KOP: <u>BHB02</u>	
Existing Conditions	Date: 2022-08-22	
In the existing view rate the aesthetic quality/sensitivity of each resource on	a score of 1 to 9 (1 liability to 9 distinct)	
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impa be a whole number score.	act), otherwise, rating should	
		Score
	Water Resources:	6
	Landform:	7
	Vegetation:	6
	Land Use:	5
	User Activity:	5
	Existing Conditions #1 Total:	29
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 b	eing high density)	
Special Condition A. Does this zone contain any sce	nic, cultural, or historic landmarks?	1
Special Condition B. Are there other aesthetic e	elements that add to this resource?	1
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3	free of litter/pollution)	
Special Condition C. Is this zo	one free from pollution and/or litter?	3
Existing Conditio	ns #2 Total (Sum 2A through 2C)	5
Existing Conditions Grand 3. Comments:	Total (Sum #1 Total and #2 Total)	34
Movement attracting viewer attention: Ocean waves; clouds and vegetation moving in the win	d.	
The existing view is situated on a slightly elevated viewing platform located at the midpoint of fending create strong verifical likes in an otherwise horizontal view and the darker colors of the access structure, dunes, and dune vegetation are all protective measures to support both browns of the wooden access structure are offset by the light colors of the sandy shoreline file prints and vehicle tracks closer to the shoreline. A strong horizon-line marks a definitive line be sky. The sky is represented in three various conditions with a multi-color surrise, mid-day with	wood provide an location from which the viewers eye can e the shoreline and the residential use just behind the view. I cked with dark colors of vegetation along the dunes and sha etween the deeper colors of the ocean water and the lighter	enter the scene The washed adows from foo colors of the

This area is a publicly accessible beach, the beach access structure adds variety and interest to line and form in this view, no litter is currently present.

Visual Impact Assessment	Personnel: Kiva VanDero	Geest
	KOP: <u>BHB02</u>	
Proposed Conditions	Date: 2022-08-22	
 With the proposed project in place, rate the aesthetic quality/sensitivity of each resource. 	ce on a score of 1 to 9 (1 liability to 9 d	istinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact),	······································	Score
otherwise, rating should be a whole number score.	Water Resources:	5
	Landform:	5
	Vegetation:	6
	Land Use:	5
	User Activity:	5
	Total:	31
3. Comments:		
3. Comments: The existing view does not have a strong central focus beyond the open expanse of horizon and the centre horizon. The expanse of turbines and dark silhouettes when back-it somewhat encloses the outward view access point and fencing, and further enclose the viewer especially during conditions in which the turbines along the shore.	of the ocean. The vertical lines of the turbine	s mimic the
The existing view does not have a strong central focus beyond the open expanse of horizon and the cent- horizon. The expanse of turbines and dark silhouettes when back-lit somewhat encloses the outward view access point and fencing, and further enclose the viewer especially during conditions in which the turbines	of the ocean. The vertical lines of the turbine are back-lit and are more similar in color to v	s mimic the ertical element
The existing view does not have a strong central focus beyond the open expanse of horizon and the cent- horizon. The expanse of turbines and dark silhouettes when back-lit somewhat encloses the outward view access point and fencing, and further enclose the viewer especially during conditions in which the turbines along the shore. The expanse of turbines on the horizon breaks up the open view and will draw viewer attention from the ex-	of the ocean. The vertical lines of the turbine, are back-lit and are more similar in color to vidisting landform and vegetation. Viewers may timospheric haze. When back-lit the turbines re	s mimic the ertical element also be drawn nay sit heavy o
The existing view does not have a strong central focus beyond the open expanse of horizon and the centri- horizon. The expanse of turbines and dark silhouettes when back it somewhat encloses the outward view access point and fencing, and further enclose the viewer especially during conditions in which the turbines along the shore. The expanse of turbines on the horizon breaks up the open view and will draw viewer attention from the er position their view in a direction to specifically include or exclude visibility of the turbines. At this distance the turbines have a potential to be quite variable depending on time of day, lighting, and a	of the ocean. The vertical lines of the turbine, are back-lit and are more similar in color to vidisting landform and vegetation. Viewers may timospheric haze. When back-lit the turbines re	s mimic the ertical element also be drawn nay sit heavy o
The existing view does not have a strong central focus beyond the open expanse of horizon and the centri- horizon. The expanse of turbines and dark silhouettes when back it somewhat encloses the outward view access point and fencing, and further enclose the viewer especially during conditions in which the turbines along the shore. The expanse of turbines on the horizon breaks up the open view and will draw viewer attention from the er position their view in a direction to specifically include or exclude visibility of the turbines. At this distance the turbines have a potential to be quite variable depending on time of day, lighting, and a	of the ocean. The vertical lines of the turbine, are back-lit and are more similar in color to vidisting landform and vegetation. Viewers may timospheric haze. When back-lit the turbines re	s mimic the ertical element also be drawn nay sit heavy o

Visual Impact Assessment	Personnel <u>: Kiva VanDerGeest</u> KOP: BHB02	Visual Impact Assessm	ent Personnel: <u>Kiva VanDerGees</u> KOP: <u>BHB02</u>	t
Proposed Conditions - Compatibility and Note: If an element is no rating should be a whole	Date: 2022-08-22 Contrast Rating not present in the view the score should be a 0 (no impact), otherwise,	Proposed Conditions 8. Visibility Threshold Level - Check the the selected KOP.	Date: 2022-08-22 box next to the description that most closely describes the visual prominence of the Project	from
4. Rate the compatibility of the proposed project on a scale of 11 Water Resources: Landform: Vegetation: 2 5. Rate scale contrast of the proposed project on a scale of 1 to: Water Resources: Landform: 2	Land Use: 3 User Activity: 3 Total: 13	close viewing: otherwise invisible. Visibility level 2. Visible when scanning in the general direction of the study subject: otherwise likely to be missed by casual observers. Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers. Visibility level 4. Plainly visible, so could not be missed by casual visible should not be missed by casual visible should not be missed by casual visible, so could	Description An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware off it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period. An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing, it could sometime be noticed by assaul observers; however, most people would not notice in without some active looking, and an object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements. An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient size or contrast to compete with other landscape/seascape elements, but with insufficient size or contrast to compete with other landscape/seascape elements, but with insufficient size or contrast to compete with other landscape/seascape elements, but with insufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual or contrast to strongly attract visual	
Vegetation: 2 6. Rate spatial dominance of the proposed project on a scale of Water Resources: Landform: Vegetation: 2	Total: 11	does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject. Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn	attention and insufficient size to occupy most of an observer's visual field. An objectiphenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing visious attention immediately and tention to addition to strong rootsess in form like order, and tenture	✓
7. Comments:	expanse of the view and uninterrupted horizon. However, the vertical elements mimic the	Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it earnot be a woolded except by turning one's head more than 458 from a direct (view of the object. The object/phenomenon is the major focus of visual attention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, color, and texture, bright light sources and moving objects associated with the study subject may contribute substantially for daving viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.	
appear out of scale with development and structures in the surrounding area with other features such as the access point fencing and vegetation.	d individual components are not discernible, the height of the turbines at this distance do a of this view. Similarly, the turbines do not dominate the view, but do become co-domin	9. Comments: The turbines are plainly visible on the horizon a	nd draw viewer attention. however they do not occupy the majority of the field of view.	
ATLANTIC SHORES offshore wind		5 of 6 ATLANTIC SHORES offshore wind	PRINT DOCUMENT TO PDF	6

Visual Impact Assessment	
Date: August 23, 2022	Personnel: Steve Breitzka
Landscape Similarity Zone; Oceanfront Residential	Key Observation Point Name/Number: BHB02
Key Observation Point (KOP) Familiarization	no
Landscape/seascape, viewer, and related factors to be considered	ed during evaluation of the KOP are outlined below.
	corporated into the scoring and comments on the VIA assessment form ervations and should be completed quickly, taking no more than 5 minutes
General elements of formal visual analysis to be consid-	ered include:
their spatial arrangement. Basic landscape components	t of objects and voids in the landscape that can be categorized by include vegetation, landform, water, and sky. Some compositions, led, or feature-oriented, are more vulnerable to modifications than
of a landscape/seascape, as well as a project. Form ref edge, outline, and surrounding space. Line refers to the or texture, usually evident as the edges of shapes or m the visual surface characteristics of an object. The extern	ajor compositional elements that define the perceived visual character ers to the shape of an object that appears unified, often defined by path the eye follows when perceiving abrupt changes in form, color, asses in the landscape/seascape. Texture, in this context, refers to not to which form, line, color, and texture of a project are similar to or cape/seascape is a primary determinant of visual impact.
 Spatial Dominance: The degree to which an object or and thus dominates seascape composition from a special 	landscape/seascape element occupies space in a landscape/seascape ific viewpoint.
	in relation to its surroundings can define the compatibility of its scale is likely to vary depending on the distance from which it is seen and
Principles of composition to be considered include	
1. Focal Point	
physical characteristics. Focal points often contrast wit tend to draw a viewer's attention. Examples include pro	ures stand out and are particularly noticeable as a result of their their surroundings in color, form, scale, or texture, and therefore mineral frees, monitains, or cultural features, such as a distinctive a sited so as to obscure or compote with important assisting focal points.
Does this view contain a focal point? ☑ Yes ☐	l No
If yes, briefly identify/describe: There is a triangular po	rtion in the lower right consisting of a railing with plokets and plant material.
2. Order	
by displaying traditional or logical patterns of land use/ this natural order may detract from scenic quality. Whe	or determined by natural processes. Cultural landscapes exhibit order- development. Elements in the anacksape that are inconsistent with in a new project is introduced to the fandscape, intactness and order, s, colors, and textures existing in the surrounding built or natural
Does this view contain a natural order? Wes	□ No
The order consists of development, signified by a railing that	presumes access to the beach; followed by a smooth beige sandy beach lapped by dewer in and extending to the horizon where it meets a solid cloud bank.

ual Impact Assessment	Personnel: Steve Breitzka
a diguia and a diguia	KOP: BHB02
rinciples of composition, continued:	Date: August 23, 2022
3, Visual Clutter	
Numerous unrelated built elements occurring within a view can criss adverse effect on scenic quality.	ate visual clutter (disrupting the natural order), which generally has an
Does this view contain elements that contribute to visual clutter	r7 🔲 Yes 🗹 No
If yes, how does the visual clutter affect the view?	
4. Movement	
Motion of existing and proposed elements in a view can attract view	ver attention.
Does this view contain elements in motion that are likely to attra	act viewer attention? 🗹 Yes 🗆 No.
(If the answer is yes, Note these elements in rating form comm	nents)
actors affecting visual impact:	
5. Duration of View	
	tway or hiking a trail, while others are seen for a more prolonged period ant aesthetic resources, have the greatest potential for visual impact.
The duration of this view is; Short Term/Fleeting Lor	ng-lerm
The frequency of this view is: Repeated Occasional	
6. Atmospheric Conditions	
	nditions can affect the visibility of an object or objects. These conditions s with landscape/seascape elements and the design elements of form.
Conditions in this view can be described as:	Partly Cloudy Overcast Hazy
Conditions that may increase/decrease visibility could be desc	pribed as; Haze or log would decrease visibility. The horizon is a clear line at all three times of day in this view.
7. Lighting Direction	
Front lighting refers to a situation where the light source is coming	is coming from overhead or the side of the observer to a feature or
The relevant lighting condition can be described as: backlit	☐ frontlit ☑ side-lit
8. Scenic or Recreational Value	
Designation as a scenic or recreational resource is an indication th	nat there is broad public consensus on the value of that particular- scenic or recreational value provide guidance in evaluating a project's
Would viewers consider this location a valued scenic or recreations	al resource? 🗹 Yes 🗀 No
How would the site be used for scenic or recreational enjoyment?	This view portrays an Idyllic beach scene.
ATLANTIC SHORES	



 \checkmark

Visual Impact Assessment	Personnel: Steve Breitzk	10	Visual Impact As	ssessment	Personnel: Steve Breitz	.Kd
	KOP: BHB02		- Frank World State of		KOP: BHB02	_
Existing Conditions	Date: August 23, 2	022	Proposed Conditions		Date: August 23, 2	2022
1. In the existing view rate the aesthetic quality/sensitivity of each resource on a sco	ore of 1 to 9 (1 liability to 9 distinct)			rate the aesthetic quality/sensitivity of each resour	ce on a score of 1 to 9 (1 liability to 9	distinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), of be a whole number score.	therwise, rating should		Note: If an element is not present in the vi otherwise, rating should be a whole numb	riew the score should be 4,5 of 9,0 (no impact), ber score.		Score
7722.000		Score			Water Resources:	1
	Water Resources:	9			Landform:	4
	Landform:	5			Vegetation:	3
	Vegetation:	5				-
	Land Use:	9			Land Use:	1
					User Activity:	1
	User Activity:	9				
	Existing Conditions #1 Total:	37		on a score of 0 to 9 (0 liability to 9 distinct)		
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being to	high density)		be adjusted up or down based upon the F	irectly from Existing Continions #2 Total and can Proposed Conditions view:	Special Conditions:	3
Special Condition A, Does this zone contain any scenic,	cultural, or historic landmarks?	3				
Special Condition B. Are there other aesthetic elem	nents that add to this resource?	2			Total:	42
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free	of litter/pollution)				T. Carrier	13
Special Condition C. Is this zone f	free from pollution and/or litter?	2	3. Comments:			
List to 37 or 18			The proposed turbines become a definitive to viewpoint, making them appear cluttered; and	ocal point extending from one side of the view to the other. Ti d points where the turbines are in line with one another, making	here are points where the turbines are stagging them appear dark and heavy. The existing	pered from this
Existing Conditions #	#2 Total (Sum 2A through 2C)	7	angles in the landscape including the railing.	the line of the beach against the wayes, and the horizon. The clouds are pale blue at the horizon, further defining the tart	se turbines punctuate the horizon like fence p	posts and provide
Existing Conditions Grand Tota 3. Comments:	al (Sum #1 Total and #2 Total)	44				
The Simulated Photograph Extent frames a postcard view of this public beach. Controlled access the	Through the dune landscape protects the limits of dis	sturbance. The sand				
appears smooth and free of large rocks, and the calm veiler gently rolls toward the viewer. The shall the view in two. This leaves all of the feature and dominant colors to the lower half of the view and a						
		3 of 6	ATLANTIC SHORES offshore wind			40
the view in two. This teaves all of the texture and dominant colors to the lower half of the view and a state of t	Descendal: Stove Breitzie		offshore wind		Berrannal-Steve Breitzie	
the view in two. This teaves all of the texture and dominant colors to the lower half of the view and a ATLANTIC SHORES	Personnel: <u>Steve Breitzk</u> Krop- BHB02			ment	Personnel: Steve Breitz	
The view in Ivo. This leaves all of the feature and dominant colors to the lower half of the view and a strain of the vie	KOP: BHB02	ka	offshore wind	ment	KOP: BHB02	ika
ATLANTIC SHORES offshore wind Visual Impact Assessment Proposed Conditions - Compatibility and Contrast Rate	KOP: <u>BHB02</u> Date: <u>August 23, 2</u>	022	Visual Impact Assessi Proposed Conditions 8. Visibility Threshold Level - Check th	ment se box next to the description that most closely des	KOP: BHB02 Date: August 23, 2	2022
ATLANTIC SHORES offshore wind Visual Impact Assessment Proposed Conditions - Compatibility and Contrast Rate	KOP: BHB02	022	Visual Impact Assessi		KOP: BHB02 Date: August 23, 2	2022
ATLANTIC SHORES offshore wind Visual Impact Assessment Proposed Conditions - Compatibility and Contrast Rat Note: if an element is not present in the view rating should be a whole number score.	ting Date: August 23, 20 ting One score should be a 0 (no impact), otherwise	022	Visual Impact Assessi Proposed Conditions 8. Visibility Threshold Level - Check th		KOP: <u>BH802</u> Date: <u>August 23, 2</u> scribes the visual prominence of the P	2022
Visual Impact Assessment Proposed Conditions - Compatibility and Contrast Rat Note: if an element is not present in the view rating should be a whole number score. 4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to	ting Date: August 23, 20 ting of the score should be a 0 (no impact), otherwise of not compatible)	022	Visual Impact Assessi Proposed Conditions 8. Visibility Threshold Level - Check th	ee box next to the description that most closely des Description	KOP: BH802 Date: August 23, 2 scribes the visual prominence of the P schilly, it sould not be seen by a person:	2022 Project from
Visual Impact Assessment Proposed Conditions - Compatibility and Contrast Rat Note: if an element is not present in the view rating should be a whole number score. 4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to Water Resources: 3	ting Date: August 23, 20 ting of the score should be a 0 (no impact), otherwise of not compatible) Land Use: 3	022	Visual Impact Assessi Proposed Conditions 8. Visibility Threshold Level - Check th the selected KOP: Visibility Rating Visibility Rating Visibility Rating Visibility Rating	be box next to the description that most closely des Description An object/phenomenon that is near the acrome limit of vi- who was unneared of in advisora and bother of it. Event can be seen only after booking at it closely for an extenden	KOP: BHB02 Date: August 23, 2 scribes the visual prominence of the P scribes the visual prominence of the P scribes the visual prominence of the P under those concentrationes, the object of period.	2022
Visual Impact Assessment Proposed Conditions - Compatibility and Contrast Rat Note: if an element is not present in the view rating should be a whole number score. 4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to Water Resources: 3	ting Date: August 23, 20 ting of the score should be a 0 (no impact), otherwise of not compatible)	022	Visual Impact Assessi Proposed Conditions 8. Visibility Threshold Level - Check th the selected KOP. Visibility Rating Visibility acting	be box next to the description that most closely des Description An object/plenomenon that is near the actrums first of virtual ways unknown of it in advance and looking for it. Even	KOP: BHB02 Date: August 23, 2 scribes the visual prominence of the P scribes the visual prominence of the P scribes the visual prominence of the P under those concentrations, the object of period. when the observer is accoming the divibout accorded viewing, it could	2022 Project from
Visual Impact Assessment Visual Impact Assessment Proposed Conditions - Compatibility and Contrast Rat Note: If an element is not present in the view rating should be a whole number score. 4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to Water Resources: Landform: 2	ting Date: August 23, 20 of the score should be a 0 (no impact), otherwise of not compatible) Land Use; User Activity: 3 Total: 13	022	Visual Impact Assessi Proposed Conditions 8. Visibility Threshold Level - Check th the selected KOP. Visibility Rating *Vasibility Aution only other extended, close viewing: otherwise invisible. Visibility level 2. Visibility when acarming in the general direction of the study subject otherwise Newly to be missed by casual blokevers. Visibility level 3. Visible other a torier glacor- in the general direction in the study subject in the general direction in the study subject.	Description that most closely des Description that most closely des Description An object/presement that is near the accreme first of vi- with owns unterser of it in advance and looking for it, Eu- cian be seen only after looking all a closely for an extended An object/presement that is very small and/or faint, but forction or looking more closely all an area, can be disloted accrediture be noticed by casual observers, however, most some script looking more closely all an area, can be disloted. An object/presement that can be easily descript after and casual observers, but without scripted after a nous casual observers, but without scripted after a	A pate: August 23, 2 pate: August 24, 2 pate: Augus	2022 Project from
ATLANTIC SHORES Offshore wind Visual Impact Assessment Proposed Conditions - Compatibility and Contrast Rat Note: If an element is not present in the view rating should be a whole number score. 4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to Water Resources: Landform: Vegetation: 2	ting Date: August 23, 20 of the score should be a 0 (no impact), otherwise of not compatible) Land Use; User Activity: 3 Total: 13	022	Visual Impact Assessi Proposed Conditions 8. Visibility Threshold Level - Check th the selected KOP: Visibility Rating - Visibility Rating - Visibility sevel 1. Visible only after extended, close verying otherwise invisible. Visibility sevel 2. Visible when scarming in the general direction of the study subject otherwise wholy to be missed by casual potentia. Visibility well 3. Visible when a torier glasco-	Description An object/phenomenon that is near the across first it of the force of	A pate: August 23, 2 pate: August 24, 2 pate: Augus	2022 Project from
Visual Impact Assessment Visual Impact Assessment Proposed Conditions - Compatibility and Contrast Rat Note: if an element is not present in the view rating should be a whole number score. 4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to Water Resources: Landform: Vegetation: 5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 see Water Resources: 3 Landform: Vegetation: 2 5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 see Water Resources: 3	ting Date: August 23, 20 of the score should be a 0 (no impact), otherwise of a not compatible) Land Use: User Activity: Total: 13	022	Visual Impact Assessi Proposed Conditions 8. Visibility Threshold Level - Check th the selected KOP. Visibility Rating - Visibility Parting - Visibility Sevel 2. Visible only albe extended, close viewing, otherwise minibile. Visibility Sevel 2. Visible when scanning in the general direction of the study subject otherwise Weby to be missed by casual observers. Visibility Sevel 3. Visible after a brief glacce in the general direction of the study subject and unlikely to be released by casual observers. Visibility Sevel 4. Plainty solid Sobervers, but not be missed by casual observers, but not be missed by casual observers.	Description An object/phenomenon that is near the extreme first it or who was unware of it in advance and toking for it. Even can be seen only with bodies if it could be a received. An object/phenomenon that is very small and/or fairs, but furnar or bodies more or bodies more object for a residence and or bodies of the country of the	KOP: BH802 Date: August 23, 2 scribes the visual prominence of the P scribes the visual prominence of t	2022 Project from
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Visual Impact Assessment	Visual Impact Assessment Personnel: <u>Jocelyn Gavitt</u>	
•	KOP: BHB03 Holyoke Aven	7
Date: 08/22/22 Personnel: Jocelyn Gavitt	Principles of composition, continued: Date: 08/22/22	
Landscape Similarity Zone: Oceanfront Residential Key Observation Point Name/Number: BHB03 Holyoke Avent	3. Visual Clutter	
Key Observation Point (KOP) Familiarization	Numerous unrelated built elements occurring within a view can create visual clutter (disrupting the natural order), which generally has an adverse effect on scenic quality.	
Landscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.	Does this view contain elements that contribute to visual clutter? Yes No	
The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form (proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes)	If yes, how does the visual clutter affect the view?	
	Motion of existing and proposed elements in a view can attract viewer attention.	
General elements of formal visual analysis to be considered include:	Does this view contain elements in motion that are likely to attract viewer attention? ☑ Yes ☐ No	
 Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include segelation, landform, water, and sky. Some propositions, especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than 	Obes this view contain elements in motion that are likely to duract viewer attention? (If the answer is yes, Note these elements in rating form comments)	
panoramic, canopied, or ephemeral landscapes.	Factors affecting visual impact:	
 Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by 	5. Duration of View	
edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to	Some views are seen as quick glimpses while driving along a roadway or hiking a trail, while others are seen for a more prolonged perio	
the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or	of time. Longer duration views of a project, especially from significant aesthetic resources, have the greatest potential for visual impact.	
contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.	The duration of this view is: ☐ Short Term/Fleeting ☑ Long-term	
 Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint. 	The frequency of this view is: 🗹 Repeated 🗆 Occasional	
 Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors. 	6. Atmospheric Conditions Clouds, precipitation, haze, and other ambient weather-related conditions can affect the visibility of an object or objects. These condition can greatly impact the visibility and contrast of project components with landscape/seascape elements and the design elements of form, line, color, return, and scale.	
Principles of composition to be considered include:	Conditions in this view can be described as: ☐ Clear ☑ Partly Cloudy ☐ Overcast ☐ Hazy	
1. Focal Point	Conditions that may increase/decrease visibility could be described as: Clear conditions would increase view	
Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewers attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape. Does this view contain a focal point? Yes No	7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming toward the observer from behind a feature or elements in a scene. Front lighting refers to a situation where the light source is coming from behind the observer and falling directly upon the area being viewed. Side lighting refers to a viewing situation in which sunlight is coming from overhead or the side of the observer to a feature or elements in a scene. Lighting direction can have a significant effect on the visibility and contrast of landscape and project elements.	
If yes, briefly identify/describe:	The relevant lighting condition can be described as:	
2. Order	The following annual contrained as the backing in the following in the following contrained as the backing in the following contrained as the backing in the following contrained as the backing in the b	
Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.	8. Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that there is broad public consensus on the value of that particular resource. The characteristics of the resource that contribute to its scenic or recreational value provide guidance in evaluating a project's visual impact on that resource.	:
Does this view contain a natural order?	Would viewers consider this location a valued scenic or recreational resource? ☑ Yes ☐ No	
There is a clear layering of beach, sand fence, water, horizon line, and sky. These are all uninterrupted horizontal layers across the view.	How would the site be used for scenic or recreational enjoyment? This view will be used by nearby residents and visitors for recreational enjoyment and viewing.	
ATLANTIC SHORES offshore wind 1 of 6	ATLANTIC SHORES	2 0

			node are see asserted seeme of recreational enjoyment	 This view will be used by nearby residents and visitors for recreati enjoyment and viewing. 	onal
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Visual Impact Assessment Personnel: Jocelyn G	Gavitt	 Visual	I Impact Assessment	Personnel: Jocelyn Gavit	
кор: <i>ВНВ03 Н</i> с	olyoke Aven	Visual	i impuot 7133033inont	KOP: BHB03 Holyol	e Aven
Existing Conditions Date: 08/22/22		Propose	d Conditions	Date: <u>08/22/22</u>	
1. In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1 liability to 9 distinct)		1. With the pro	oposed project in place, rate the aesthetic quality/sensiti	vity of each resource on a score of 1 to 9 (1 liability to 9 dis	stinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.			ment is not present in the view the score should be 4.5 of 9.0 ing should be a whole number score.	(no impact),	Score
	Score			Water Resources:	2
Water Resources:	9			Landform:	3
Landform:	5			Vegetation:	4.5
Vegetation:	4.5			Land Use:	3
Land Use:	8			User Activity:	2
User Activity:	9				
Existing Conditions #1 Total:	35.5		y rate special conditions on a score of 0 to 9 (0 liability to	•	
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high density)			Conditions score is taken directly from Existing Conditions #2 o or down based upon the Proposed Conditions view.	* Total and can Special Conditions:	5
Special Condition A. Does this zone contain any scenic, cultural, or historic landmarks?	3				
Special Condition B. Are there other aesthetic elements that add to this resource?	2			Total:	19.5
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/pollution)					.,,,,
Special Condition C. Is this zone free from pollution and/or litter?	3	3. Comments:	:		
Existing Conditions #2 Total (Sum 2A through 2C)	8	component to the		t form their own patterns. They become the focus of the view and len es, likely in a negative manner. They create significant contrast to the ude of the field extends across the horizon line.	
Existing Conditions Grand Total (Sum #1 Total and #2 Total) 3. Comments:	43.5				
This is an uninterrupted open water view that will be seen by users repeatedly and for long periods of enjoyment. The open water view dominates movement of the waves provides the local activity. There only man made element in this view is the sand fence and it fits into the horizontal order regularity.					

Visual Impact Assessment	Personnel: Jocelyn Gavitt KOP: BHB03 Holyoke Aver	Visual Impact Assessr	nent Personnel: <u>Jocelyn Gavitt</u> KOP: BHB03 Holyake Aven
Proposed Conditions - Compatibility and C Note: If an element is not rating should be a whole	Date: 08/22/22 Contrast Rating of present in the view the score should be a 0 (no impact), otherwise,	Proposed Conditions 8. Visibility Threshold Level - Check the the selected KOP.	Date: <u>08/22/22</u> box next to the description that most closely describes the visual prominence of the Project from
Rate the compatibility of the proposed project on a scale of 1 to	o 3 (1 compatible to 3 not compatible)	Visibility Rating	Description
Water Resources: 3	Land Use: 2	Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.
Landform: 1 Vegetation: 0	User Activity: 2 Total: 8	Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.
Rate scale contrast of the proposed project on a scale of 1 to 3 Water Resources: 3	t (1 minimal to 3 severe) Land Use: 2	Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.
Landform: 1 Vegetation: 0	User Activity: 2 Total: 8	Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.
6. Rate spatial dominance of the proposed project on a scale of 1 Water Resources: Landform: Vegetation: O	to 3 (1 subordinate, 2 co-dominant, 3 dominant) Land Use: User Activity: Total: 9	Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual alterition, drawing viewer attention immediately and tending to hold that alterinon. In addition to strong contrasts in form, line, color, and testure, bright light sources such as lighting and reflectional and moving objects associated with the study subject interferes noticeably with views of nearby landscape/seascape elements.
7. Comments: The original appeal of this landscape is the uninterrupted open water view. The	the proposed furbines completely change the mood of the landscape, lending a strong oproposed conditions. These are most visible when backlit, and highlight the magnitude of	Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in large general direction. Strong contracts in form, line; color; testure, laminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by turning one's head more than 45 from a direct view of the object. The object/phenomenon is the major focus of visual attention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, the contrast is the state of t
			spe and pattern of the field of infrastructure. The proposed turbines populate the entire horizon from this view and be by the receding rows in perspective create a level of intrigue, as the order and alignment is clear from some directions

Visual Impact Assessment	
Date: 22 August 2022	Personnel: KAC

Landscape Similarity Zone: <u>Oceanfront Res, Seascape</u> Key Observation Point Name/Number: <u>BHB03</u>

Key Observation Point (KOP) Familiarization

Landscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.

The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form (proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes)

 $\label{thm:constraints} \textbf{General elements of formal visual analysis to be considered include:}$

- Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by
 their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions,
 especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than
 panoramic, canopied, or ephemeral landscapes.
- Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.
- Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint.
- Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors.

Principles of composition to be considered include:

1. Focal Point

ATLANTIC SHORES

Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape.

Does this view contain a focal point? <a>Z Yes <a>D No

If yes, briefly identify/describe: sand fence edge in foreground and horizon line.

2. Order

ATLANTIC SHORES

Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.

Does this view contain a natural order? ✓ Yes ☐ No If yes, how does the natural order affect the view?

thin line of dune sand, buried sand fence with vertical posts, and rolling surf leading to the horizon.

eir ofore nctive ncal points	
ibit order with d order ral	
1 of 6	

Visual Impact Assessment	Personnel: KAC
	KOP: <u>BHB03</u>
Principles of composition, continued: 3. Visual Clutter Numerous unrelated built elements occurring within a view can create visu adverse effect on scenic quality.	Date: 22 August 2022 all clutter (disrupting the natural order), which generally has an
Does this view contain elements that contribute to visual clutter?	Yes No
If yes, how does the visual clutter affect the view? sand fence, vertical	al post, and footprints along dune edge.
Movement Motion of existing and proposed elements in a view can attract viewer atter	ntion.
Does this view contain elements in motion that are likely to attract view	wer attention? Ves No
(If the answer is yes, Note these elements in rating form comments)	
Factors affecting visual impact:	
5. Duration of View Some views are seen as quick glimpses while driving along a roadway or of time. Longer duration views of a project, especially from significant ase The duration of this view is: ☐ Short Term/Fleeting ☑ Long-term	thetic resources, have the greatest potential for visual impact.
The frequency of this view is: 🗹 Repeated 🗖 Occasional	
6. Atmospheric Conditions Clouds, precipitation, haze, and other ambient wealther-related conditions can greatly impact the visibility and contrast of project components with la line, color, texture, and scale.	
Conditions in this view can be described as: Clear Partly Cl	loudy 🗖 Overcast 🗹 Hazy
Conditions that may increase/decrease visibility could be described a	as: Lack of cloud cover; clear conditions
7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming towa Front lighting refers to a situation where the light source is coming from b viewed. Side lighting refers to a viewing situation in which sunlight is com- elements in a scene. Lighting direction can have a significant effect on the	ehind the observer and falling directly upon the area being ing from overhead or the side of the observer to a feature or
The relevant lighting condition can be described as: 🔽 backlit 🗹 t	frontlit 🗹 side-lit
8. Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that ther resource. The characteristics of the resource that contribute to its scenic visual impact on that resource.	
Would viewers consider this location a valued scenic or recreational resou	urce? 🛮 Yes 🗖 No
How would the site be used for scenic or recreational enjoyment? Beach	Haven Borough Public Beach

PRINT DOCUMENT TO PDF

ATLANTIC SHORES

Visual Impact Assessment Personnel: KAC		Visual Impact Assessment	Personnel: KAC	
KOP: <u>BHB03</u>		Trought in	KOP: <u>BHB03</u>	
Existing Conditions Date: 22 Augus	<u>t 2022</u>	Proposed Conditions	Date: 22 August 202	22
1. In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1 liability to 9 distinct)		With the proposed project in place, rate the aesthetic quality/sensitivity of each re-	source on a score of 1 to 9 (1 liability to 9 dis	stinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Score
	Score		Water Resources:	5
Water Resources:	6		Landform:	5
Landform:	5		Vegetation:	5
Vegetation:	5		Land Use:	5
Land Use:	6		User Activity:	5
User Activity:	6			
Existing Conditions #1 Total:	28	Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct) Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can		
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high density)		be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	1
Special Condition A. Does this zone contain any scenic, cultural, or historic landmarks?	1			•
Special Condition B. Are there other aesthetic elements that add to this resource?	0		Total:	26
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/pollution)				20
Special Condition C. Is this zone free from pollution and/or litter?	1	3. Comments:		
Existing Conditions #2 Total (Sum 2A through 2C)	2	The surrise sky is dominated by the line of backlit turbines along the horizon line. The midground or alternating the viewer's attention between the turbines and the surf action. The condinensed space be and not linviting, especially due to the dark shadows and dark ocean. The stacked turbines in the left	tween the sand fence and rolling surf at high tide is v	visually off putting
Existing Conditions Grand Total (Sum #1 Total and #2 Total)	30	The Noon view is highly contrasting between the sky, water, sand and fencing, thereby making the e	elements look separate and distinct from each other.	The repetition of
Cultural Historic: Beach Haven Borough Public Beach		the turbines along the horizon are in keeping with the repetition of the sand pence panels in the forer lit turbines along the horizon line in the Noonlime view is another distinct textural element within the and far right are highly visible at Noon, inspiring a slinky extension of turbines over the horizon line.		
Aesthetic: Wide-open water view to the horizon over a thin beach strip in front of the dune vegetation and sand fence.		The sunset view is more restrained in color and texture; however, the hues of the colors are rich and	inviting to look at, as well as the rolling surf in its der	ep teal color and
Litter: Beach visitor litter.		The sunset view is more restrained in color and tenture: however, the hues of the colors are rich and inviting to look at, as well as the dynamic wave action. The water's edge is not up against the sand fence edge and therefore it feels welcoming to enter the beach, along the horizon line are just another tentural element within the view, but they are visually muted due to the light furbine coloring; is stightly shifted, therefore, the stacked furbines to the left of the view are no longer visible in this view; however, the far right stack		ed sky. The view
Summary of view. The early morning view across the beach and greater ocean landscape is pleasant; however, the sand fence is a visual obstacl oddly buried, and is not velcoming to the viewer to make any uther approach. The dark colors and shadows are also foreboding, but rich in hus as visually compelling in color, almosphere, and texture since the sum bleaches out the mid day colors. The surset view is the most visually comp dynamic water conditions, warm colors, and textures. Since the light is subduced in the surset view, and the sand fence is gently lit, the fence doe an obstacle to reaching the water. The deep rich color of the ocean at surset is the visually dominant element in the ocean view.	. The Noon view is not pelling due to the	against the light colored sky.	w, inverse , ne ia nyn siazaci iuliunes ale niove	ately visible
ATLANTIC SHORES offshore wind	3 of 6	ATLANTIC SHORES offshore wind		4 of 6

offshore wind		offshore wind		
	W40			
Visual Impact Assessment Per	rsonnel: KAC	Visual Impact Assessi		
	KOP: <u>BHB03</u>			BHB03
Proposed Conditions - Compatibility and Contrast Rating	Date: <u>22 August 2022</u>	Proposed Conditions		22 August 2022
Note: If an element is not present in the view the score should b rating should be a whole number score.	e a 0 (no impact), otherwise,	Visibility Threshold Level - Check th the selected KOP.	e box next to the description that most closely describes the visual prom	ninence of the Project from
4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible)		Visibility Rating	Description	
Water Resources: 3 Land Use:	2	Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen who was unaware of it in advance and looking for it. Even under those circumstance can be seen only after looking at it closely for an extended period.	
Landform: 2 User Activity: Vegetation: 1 Total:	10	Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scan horizon or looking more closely at an area, can be detected without extended viewin sometimes be noticed by casual observers; however, most people would not notice i some active looking.	ng. It could
5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe)		Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual	An object/phenomenon that can be easily detected after a brief look and would be vi most casual observers, but without sufficient size or contrast to compete with major seascape elements.	
Water Resources: 3 Land Use: Landform: 2 User Activity: Vegetation: 1 Total:	2 2 10	observers. Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An objectlyhenomenon that is obvious and with sufficient size or contrast to compel landscape/seascape elements, but with insufficient visual contrast to strongly attract attention and insufficient size to occupy most of an observer's visual field.	
6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 Water Resources: Land Use: Landform: 2 User Activity: Vegetation: 1 Total:	2 3 11	Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion. Visibility level 6. Dominates the view	An objectlyhenomenon that is not large but contrasts with the surrounding landscap os strongly that it is a major focus of visual attention, drawing viewer attention imme lending lo hold that attention. In addition is toring contrasts in form, line, color, and bright light sources such as lighting and reflections! and moving objects associated subject may contribute substratifiely of ordawing viewer attention. The visual promine study subject interferes noticeably with views of nearby landscape/seascape element An object/lighenomenon with strong visual contrasts that is so large that it occupies in	ediately and texture, with the study ence of the nts.
7. Comments: Compatibility: The density of turbines and industrial footprint on the horizon reduces the aesthetic quality of the view: how front lightning of the turbines and light sky conditions.	ever, the sunset view is less affected due to the	because the study subject fills most of the visual field for views in 1s general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance.	visual field, and views of it cannot be avoided oxopit by furning one's head more had a direct view of the object. The object/phenomenon is hemaily focus of visual alter large apparent size is a major factor in its view dominance. In addition to size, contil line, color, and foculture, tript light sources and moving objects associated with the smay contribute substantially to drawing viewer attention. The visual prominence of it subject defracts moticeably from views of other landscape/seascape elements.	ntion, and its rasts in form, study subject
Scale: The scale of the turbines is based upon the cumulative visual weight of the entire system, versus a singular turbine	<u>.</u>			
Spatial Dominance: The vastness of the ocean is in contrast to the visual weight of the turbines. Both have visual weight	and spatial dominance in the view.	9. Comments:		



Visual Impact Assessment	Visual Impact Assessment	Personnel: Kiva VanDerGeest
Date: 2022-08-22 Personnel: Kiva Var	nDerGeest	KOP: <u><i>BHB03</i></u>
	Principles of composition, continued:	Date: <u>2022-08-22</u>
	3. Visual Clutter Numerous unrelated built elements occurring within a v	view can create visual clutter (disrupting the natural order), which generally has an
Key Observation Point (KOP) Familiarization	adverse effect on scenic quality.	
Landscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.	Does this view contain elements that contribute to	visual clutter? Yes V No
The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA asses	ssment form If yes, how does the visual clutter affect the view?	
(proposed conditions). (This form is inlended to record initial observations and should be completed quickly, taking no more		
General elements of formal visual analysis to be considered include:	Motion of existing and proposed elements in a view car	n attract viewer attention.
Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categor		e likely to attract viewer attention? 🔽 Yes 🗆 No
their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky, Some complesspecially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modification panoramic, canopied, or ephemeral landscapes.		g form comments)
 Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visua 	al character Factors affecting visual impact:	
of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often de edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in for	anno antino	
or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, r	refers to of time. Longer duration views of a project, especially	along a roadway or hiking a trail, while others are seen for a more prolonged period from significant aesthetic resources, have the greatest potential for visual impact.
the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are sim contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.	The duration of this view is: Short Term/Flee	ting 🗹 Long-term
 Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape and thus dominates seascape composition from a specific viewpoint. 	pe/seascape The frequency of this view is: ☑ Repeated ☐	Occasional
Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility		
within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is other contextual factors.		er-related conditions can affect the visibility of an object or objects. These conditions components with landscape/seascape elements and the design elements of form,
Principles of composition to be considered include:	Conditions in this view can be described as: 🗹	Clear ☑ Partly Cloudy ☐ Overcast ☐ Hazy
1. Focal Point	Conditions that may increase/decrease visibility of	could be described as: Hazelovercast
Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and the		
tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a dis	istinctive Backlighting refers to a viewing situation in which sun	light is coming toward the observer from behind a feature or elements in a scene. ce is coming from behind the observer and falling directly upon the area being
lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing in the landscape/seascape.	yiewed. Side lighting refers to a viewing situation in wi	hich sunlight is coming from overhead or the side of the observer to a feature or inficant effect on the visibility and contrast of landscape and project elements.
Does this view contain a focal point? ☑ Yes ☐ No	elements in a scene. Lighting direction can have a sig	illineant effect on the visibility and contrast of landscape and project elements.
If yes, briefly identify/describe: The dune fence if far enough from the viewer to be a central focus in the view	The relevant lighting condition can be described as:	☑ backlit □ frontlit ☑ side-lit
2. Order		
Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes e by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsist	tent with	
this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness	and order Designation as a scenic or recreational resource is an	indication that there is broad public consensus on the value of that particular tribute to its scenic or recreational value provide guidance in evaluating a project's
are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or n- environment.	visual impact on that resource.	
Does this view contain a natural order? ☑ Yes ☐ No If yes, how does the natural order affect the view?	Would viewers consider this location a valued scenic of	or recreational resource? 🗹 Yes 🔲 No
The viewers eye is drawn through the image in a formal order moving from one horizontal line to the next. from the dune, to the fenci shoreline, and across the waves to the horizon and skyline.	How would the site be used for scenic or recreational	enjoyment? This is a public beach with ocean access.
ATLANTIC SHORES	1 of 6 ATLANTIC SHORES	2 of 6
offshore wind	offshore wind	2 010

Visual Impact Assessment	Personnel: Kiva VanDerGe	est
	KOP: <u>BHB03</u>	
Existing Conditions	Date: 2022-08-22	
In the existing view rate the aesthetic quality/sensitivity of each resource on a s	core of 1 to 9 (1 liability to 9 distinct)	
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), be a whole number score.	otherwise, rating should	
		Score
	Water Resources:	6
	Landform:	6
	Vegetation:	5
	Land Use:	6
	User Activity:	5
	Existing Conditions #1 Total:	28
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being	g high density)	
Special Condition A. Does this zone contain any scenic	c, cultural, or historic landmarks?	1
Special Condition B. Are there other aesthetic ele	ments that add to this resource?	1
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 fre	e of litter/pollution)	
Special Condition C. Is this zone	e free from pollution and/or litter?	3
Existing Conditions	#2 Total (Sum 2A through 2C)	5
Existing Conditions Grand Tol 3. Comments:	tal (Sum #1 Total and #2 Total)	33
Movement attracting viewer attention: Ocean waves; clouds and vegetation moving in the wind.		
This view is from a sand dune at the top of a path leading to the beach shoreline, the path to the sand protected dune dotted with small clumps of grass, and toward the fair side of the dune fencing stope toward the fencing and the drops from view. The fail even shoreline extends from the dune. The dune fencing creates hard vertical and hortzontal lines in a view that is otherwise limited in his tower elevation, and partially obscured by the dune, make the fence a focal point in the view with and slight movement of the water are also somewhat paralled to the dune fencing. The hortzons it fencing, and shoreline. The sky has a gentle straition of clouds which continue the hortzontal lines user adultiset derively in the view or centered on beach viewing and access. Land use and user	The dune itself creates the primary landform which crefence to the tide line where small ponds form depending man intervention, the distance of the fencing and locatiostrong lines and color contrast with the water line beyons once distant in the view, but again is parallel to the dun. Viegetation is limited to small clumps of dune grass. Th	ates a gentle on time of day. n at a slightly i. The waves ie, dune e land use and

Personnel: Kiva VanDerGeest **Visual Impact Assessment** KOP: BHB03 Date: 2022-08-22 **Proposed Conditions** 1. With the proposed project in place, rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1 liability to 9 distinct) Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score. Score Water Resources: 5 Landform: 6 Vegetation: 5 Land Use: 5 User Activity: 5 2. Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct) Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can be adjusted up or down based upon the Proposed Conditions view. Special Conditions: 5 Total: 31 The introduction of authines into this view adds an expanse of structures across the horizon which, especially during back-lit conditions, somewhat encloses the viewer. The vertical form of the furtienes across the horizon mimics the form and span of the dune fencing and slats. The open view of the water is now limited by the massing of turbines with limited glimpses to the horizon in locations where the turbines align, or stack. The furthines appear duttered in locations where the rouss do not align, and the massing diminishes toward the right of the view where the turbine array ends. During conditions in which the turbines are sisted and front-lit, and the sky appears light in color the turbines are visible on the horizon, but do not hold the viewer attention. Viewers are likely to look at the turbines, but also orient their view to other areas where the open ocean is available. The slightly elevated view causes the furbines to appear at eye level and the viewer to look across the landscape leaving the landform largely unaffected by the furbines. The viewers attention is drawn to the furbines and the minimal vegetation is likely to be overlooked. The land use and user activity will also see minimal change, but the view of open ocean in this largely residential area is changed to a view of the turbines.



Visual Impact Assess	sment	Personnel: Kiva VanDerGeest	Visual Impact Assessr	ment Personnel: Kiva VanDe	rGeest
•		KOP: <u>BHB03</u>		KOP: <u>BHB03</u>	
Proposed Conditions - Compati	,	Date: <u>2022-08-22</u>	Proposed Conditions 8. Visibility Threshold Level - Check the	Date: 2022-08-22 e box next to the description that most closely describes the visual prominence of the l	
	f an element is not present in the view the score shoul should be a whole number score.	d be a 0 (no impact), otherwise,	the selected KOP.		
4. Pate the compatibility of the proposed project.	on a scale of 1 to 3 (1 compatible to 3 not compatil	nia)	Visibility Rating	Description	
Water Resources:	3 Land Use:	2	Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it dosey for an extended perior.	
Landform: Vegetation:	2 User Activity: 2 Total:	11	Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be defected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
Rate scale contrast of the proposed project on Water Resources:			Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	
vvaler Resources. Landform: Vegetation:	3 Land Use: 1 User Activity: 1 Total:	2 2 9	Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	✓
Rate spatial dominance of the proposed projec Water Resources: Landform: Vegetation:	t on a scale of 1 to 3 (1 subordinate, 2 co-dominan 3 Land Use: 2 User Activity: Total:	2 2 11	Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to strong contrasts in form, line, cotor, and texture, bright light sources such as lighting and reflectional and moving objects associated with the study subject may contribute substantially of ordaving viewer attention. The visual promisence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	
7. Comments: The project is not compatible with the current view of the cuse, and user activities. The scale of the turbine on the ho	spen ocean, but is somewhat compatible with the low varialitrizon somewhat encloses the viewer, but the expanse of sh	in and elevation of the landform, vegetation, land relieve and rolling dunes are not overwhelmed by	Visibility level 6. Dominates the view because the study sulpict fills most of the visual field for views in its general direction. Strong contracts in form, line; color, feeture, luminance, or moliton may contribute to view dominance.	An object/phenomenon with strong visual contracts that is so large that if occupies most of the visual field, and wees of ta canno be avoided except by turning one's head more than 458 from a direct view of the object. The object/phenomenon is the major focus of visual attention, and its large apparent size is a major factor in its view dominance. In addition to size, contracts in from, line, color, and texture, bright light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.	
the turbines. Similarly, the ocean becomes dominated by the are considered co-dominant.	the turbines, but the landform, vegetation, land use and user	activity are to over shadowed by the turbines and		s may draw, and hold, viewer attention. However, during front and side-lit conditions the turbines are sub nd side-lit conditions are likely to see the turbines, but focus their view in front of them and out to the ope	
ATLANTIC SHORES offshore wind		5 of 6	ATLANTIC SHORES offshore wind	PRINT DOCUMENT TO PDF	6 of 6

/isual Impact Assessment		Visual Impact Assessment	Personnel: Steve Breitzka
		Today Impact recognists	KOP: BHB03
ate: August 24, 2022	Personnel: Steve Breitzka	Principles of composition, continued:	Date: August 24, 2022
andscape Similarity Zone: Oceanfront Residential	Key Observation Point Name/Number: BHB03	3, Visual Clutter	Date: Transport and Transport
(ey Observation Point (KOP) Familiarization	n	Numerous unrelated built elements occurring within a view can create valverse effect on scenic quality.	
andscape/seascape, viewer, and related factors to be considere	ed during evaluation of the KOP are outlined below.	Does this view contain elements that contribute to visual clutter?	Yes No
	orporated into the scoring and comments on the VIA assessment form ervations and should be completed quickly, taking no more than 5 minutes)	If yes, how does the visual clutter affect the view? 4. Movement	
General elements of formal visual analysis to be conside	ered include:	Motion of existing and proposed elements in a view can attract viewer a	ettention.
	t of objects and voids in the landscape that can be categorized by	Does this view contain elements in motion that are likely to attract	viewer attention? 🗹 Yes 🗌 No.
	include vegetation, landform, water, and sky. Some compositions, led, or feature-oriented, are more vulnerable to modifications than	(If the answer is yes, Note these elements in rating form comments	
Proposition of the state of the	ajor compositional elements that define the perceived visual character	Factors affecting visual impact:	
of a landscape/seascape, as well as a project. Form ref	ers to the shape of an object that appears unified, often defined by	5. Duration of View	
or texture, usually evident as the edges of shapes or ma	path the eye follows when perceiving abrupt changes in form, color, asses in the landscape/seascape. Texture, in this context, refers to	Some views are seen as quick glimpses while driving along a roadway of time. Longer duration views of a project, especially from significant:	
	nt to which form, line, color, and texture of a project are similar to or cape/seascape is a primary determinant of visual impact.	The duration of this view is: Short Term/Fleeting Long-II	erm
 Spatial Dominance: The degree to which an object or land thus dominates seascape composition from a special 	landscape/seascape element occupies space in a landscape/seascape lific viewpoint.	The frequency of this view is: Repeated Occasional	
	in relation to its surroundings can define the compatibility of its scale is likely to vary depending on the distance from which it is seen and	 Atmospheric Conditions Clouds, precipitation, haze, and other ambient weather-related conditions are greatly impact the visibility and contrast of project components with line, color, backing, and scale. 	
Principles of composition to be considered include	•	Conditions in this view can be described as: Clear Partly	Cloudy Overcast Hazy
1. Focal Point		Conditions that may increase/decrease visibility could be describe	ad as: Haza or log would decrease visibility. The horizon is a clear
physical characteristics. Focal points often contrast witl tend to draw a viewer's attention. Examples include pro	ures stand out and are particularly noticeable as a result of their in their surroundings in color, form, scale, or texture, and therefore princent frees, mountains, or cultural features, such as a distinctive a sited so as to obscure or compete with important axisting focal points	7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming to Front lighting refers to a situation where the light source is coming fron viewed. Side lighting refers to a viewing situation in which sunlight is or elements in a scene. Lighting direction can take a significant effect or.	at sunset obscure the turbines more than other times of day, ward the observer from behind a feature or elements in a scene. he behind the observer and fatting directly upon the area being groung from overhead or the side of the observer to a feature or
Does this view contain a focal point? Yes	l No	and the state of t	and an artifact of the second
If yes, briefly identify/describe:		The relevant lighting condition can be described as: backlit	frontlit 🗹 side-lit
2. Order			
by displaying traditional or logical patterns of land use/ this natural order may detract from scenic quality. When	or determined by natural processes. Cultural landscapes which order- development. Elements in the landscape that are inconsistent with n a new project is introduced to the landscape, intactness and order, s, colors, and textures existing in the surrounding built or natural	8. Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that the resource. The characteristics of the resource that contribute to its scen visual impact on that resource.	
Does this view contain a natural order?	□ No	Would viewers consider this location a valued scenic or recreational re	source? Ves No
The order is simply comprised of beach, water, and sky. The is colm and dark, only breaking at the hearth, and the sky is a	beach is interrupted by a low sand fence and small sporadic grass clumps; the water	How would the site be used for scenic or recreational enjoyment?	in visus restresse an inhillio haisett anima



Visual Impact Assessment	Pers	onnel: Steve Breits	tka	Visual Impact As	sessment	Personnel: Steve Breitz	zka
		KOP: BHB03		- Steam White and		KOP: BHB03	_
Existing Conditions		Date: August 24,	2022	Proposed Conditions		Date: August 24,	2022
	sensitivity of each resource on a score of 1 to 9 (1 liabili	ty to 9 distinct)		The second second second second second	ate the aesthetic quality/sensitivity of each resou	rce on a score of 1 to 9 (1 liability to 9	distinct)
Note: If an element is not present in the view the so be a whole number score.	core should be 4.5 of 9.0 (no impact), otherwise, rating should	Я		Note: If an element is not present in the violenmen, rating should be a whole number	iew the score should be 4.5 of 9.0 (no impact).		Score
The of Marine Introduce Section			Score	orierwise. laung should be a whole home	er suve.	Water Resources:	1
	Wat	ter Resources:	9			Landform:	5
		Landform:	5			Vegetation:	3
		Vegetation:	3				
		Land Use:	9			Land Use:	1
						User Activity:	1
		User Activity:	9				
	Existing Condit	ions #1 Total:	35		on a score of 0 to 9 (0 liability to 9 distinct) rectly from Existing Continions #2 Total and can		
	re of 0 to 3 (0 not present to 3 being high density)			be adjusted up or down based upon the F		Special Conditions:	3
Special Condition A, Does	this zone contain any scenic, cultural, or histor	ric landmarks?	3				
Special Condition B.	Are there other aesthetic elements that add to	this resource?	2			Total:	14
Respond to each question below using a score	of 0 to 3 (0 littered/polluted to 3 free of litter/pollution)						1
Spe	acial Condition C. Is this zone free from pollution	on and/or litter?	2	3. Comments:			
	Existing Conditions #2 Total (Sum 2/	A through 2C)	7	appearance of one massive turbine. Turbine	cal point extending across the entire view. There is a line is to the right are staggered, making them appear abundant nd sand fence. This encloses the water and condenses the	and cluttered. The turbines serve as another	another, giving the r fence in the view
2				takeaning are use established by the loted-tro	in pain laire. His amposs ha sard an mineraes n	, your	
3. Comments:	isting Conditions Grand Total (Sum #1 Total	and #2 Total)	42				
There is a softness to this view, smooth windswept sand	t with small clumps of grass, low cresting waves, calm light blue wa se colors are all warm earth lones, contributing to the calminess.	ter forming the horizon, an	d a mostly cloudy				
ATLANTIC SHORES offshore wind			3 of 6	ATLANTIC SHORES offshore wind			4
Visual Impact Asses	sment Pers	onnel: Steve Breits	tka	Visual Impact Assessi	ment	Personnel: Steve Breitz	zka
Vioudi impuot Aoooo	omone	KOP: BHB03				KOP: BHB03	
Proposed Conditions - Compa	tibility and Contrast Rating	Date: August 24,	2022	Proposed Conditions		Date: August 24,	2022
Note, rating	If an element is not present in the view the score should be a shole number score.	a 0 (no impact), otherw	186.		e box next to the description that most closely de		Project from
	t on a scale of 1 to 3 (1 compatible to 3 not compatible). Land Use:	9			An object/phenomenon that is near the extreme limit of who was unaware of it in advance and looking for it. Eve	isibility. If sould not be seen by a person- n under those circumstances, the object	
Water Resources: Landform:	3 Land Use; 1 User Activity:	3		Visibility level 2: Visible when scanning in	can be seen only after looking at it closely for an extend An object/phenomenon that is very small and/or faint, by	d period.	
Vegetation:	1 Total:	11		the general direction of the study subject otherwise likely to be missed by casual observers.	horizon or looking more closely at an area, can be detec sometimes be noticed by casual observers; however, m some active looking.	ted without extended viewing. It could	
5. Rate scale contrast of the proposed project of	on a scale of 1 to 3 (1 minimal to 3 severe)	-		Visibility level 3. Visible after a brief glasco in the general direction of the study subject and unlikely to be missed by casual.	An object/phenomenon that can be easily detected after most casual observers, but without sufficient size or con seascape elements.	a tinef look and would be visible to rast to compete with major landscape/	
Water Resources:	3 Land Use:	3		observers			- 1-1
Landform:	1 User Activity:	3		Visibility level 4: Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or	An object/phenomenon that is obvious and with sufficient landscape/seascape elements, but with insufficient visus attention and insufficient size to occupy most of an obse	contrast to strongly attract visual	
Vegetation:	1 Total:	11		dominate the view because of its apparent size, for views in the general direction of the study subject.			
6. Rate spatial dominance of the proposed proje	ect on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 o	dominant)		Visibility level 5. Strongly altracts the visual	An object/phenomenon that is not large but contrasts wi	h the surrounding landscape elements	_
Water Resources:	3 Land Use:	3		attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or	so strongly that it is a major focus of visual attention, dra- tending to hold that attention. In addition to strong contra- bright light sources such as lighting and reflectional and	sts in form, line, color, and texture, moving objects associated with the study	
Landform:	1 User Activity:	3		texture, luminance, or motion.	subject may contribute substantially to drawing viewer a study subject interferes noticeably with views of nearby	tention. The visual prominence of the	
Vegetation:	1 Total:	11		Visibility level 6. Dominates the view because the study subject fifts most of the visual field for views in its general direction. Strong contrasts in form, time, color, feature, luminance, or motion may contribute to	An object/phenomenon with strong visual contrasts that visual field, and views of it cannot be avoided except by a direct view of the object. The object/phenomenon is it larget apparent size is a major factor in its view dominal inex, color, and houture, bright light sources and moving of	turning one's head more than 458 from e major focus of visual attention, and its es. In addition to size, contrasts in form,	
7. Comments:				view dominance.	may contribute a distraction in drawing visual attention	Action Consequences in a rise always amounted	
	the extensive view into this scene toward the horizon. There are n			their sections.	subject defracts noticeably from views of other landscap	The visual prominence of the study alseascane elements.	

9. Comments:

The furthers have a strong presence from one side of the view to the other. There is some relief on the far left and right where the turbines appear aligned, although this alignment makes the turbines heavier on the horizor.

The lighting and cloud color in the sunset simulation obscure the turbines more than the other times of day, as though there is a sheer veil at the horizon. The turbines are still orderable though more as a mass than Edinbushis.



/isual Impact Assessment	Visual Impact Assessment Personnel: Jocelyn Gavitt	_
·	KOP: BLB02 Barnegat Light	7
· · · · · · · · · · · · · · · · · · ·	Principles of composition, continued: Date: 08/24/22	_
andscape Similarity Zone: Residents/Tourists Key Observation Point Name/Number: BLB02 Barnegat Light	3. Visual Clutter	
Key Observation Point (KOP) Familiarization	Numerous unrelated built elements occurring within a view can create visual clutter (disrupting the natural order), which generally has an adverse effect on scenic quality.	
andscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.	Does this view contain elements that contribute to visual clutter? 🗹 Yes 🗌 No	
The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes)	If yes, how does the visual clutter affect the view? the buildings covering much of the landscape draw one's attention 4. Movement	
General elements of formal visual analysis to be considered include:	Motion of existing and proposed elements in a view can attract viewer attention.	
Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by	Does this view contain elements in motion that are likely to attract viewer attention?	
Landscape acceptance composition. The amaginetin of objects and votors in the shadscape rate and sky. Some compositions, the spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions, especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or enhemeral landscapes.	(If the answer is yes, Note these elements in rating form comments)	
Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character	Factors affecting visual impact:	
of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by	5. Duration of View	
edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to	Some views are seen as quick glimpses while driving along a roadway or hiking a trail, while others are seen for a more prolonged perio of time. Longer duration views of a project, especially from significant aesthetic resources, have the greatest potential for visual impact.	Jd
the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.	The duration of this view is: 🗹 Short Term/Fleeting 🗆 Long-term	
 Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint. 	The frequency of this view is: ☐ Repeated ☑ Occasional	
 Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors. 	Clouds, precipitation, haze, and other ambient weather-related conditions can affect the visibility of an object or objects. These condition can greatly impact the visbility and contrast of project components with landscape/seascape elements and the design elements of form, line, color, returne, and scale.	
Principles of composition to be considered include:	Conditions in this view can be described as: ☐ Clear ☐ Partly Cloudy ☑ Overcast ☐ Hazy	
1. Focal Point	Conditions that may increase/decrease visibility could be described as: Clear conditions would increase view	
Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, monatians, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape.	7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming toward the observer from behind a feature or elements in a scene. Front lighting refers to a situation where the light source is coming from behind the observer and falling directly upon the area being viewed. Slick lighting refers to a viewing situation in which sunlight is coming from overhead or the side of the observer to a feature or elements in a scene. Lighting direction can have a significant effect on the visibility and contrast of landscape and project elements.	
Does this view contain a focal point? Yes No		
If yes, briefly identify/describe:	The relevant lighting condition can be described as: backlit frontlit side-lit	
2. Order Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.	Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that there is broad public consensus on the value of that particular resource. The characteristics of the resource that contribute to its scenic or recreational value provide guidance in evaluating a projects visual impact on that resource.	;
Does this view contain a natural order? 🗹 Yes 🗌 No If yes, how does the natural order affect the view?	Would viewers consider this location a valued scenic or recreational resource? ☑ Yes ☐ No	
There is a basic layering of foreground with a pattern of development on land and the ocean in the mid-ground and sky above.	How would the site be used for scenic or recreational enjoyment? This is a coveled view from a lighthouse.	
ATLANTIC SHORES 1 of 6	ATLANTIC SHORES offshore wind	20

environment.			visualing	pact of that resource.		
Does this view contain a natural order? Yes N f yes, how does the natural order affect the view?	lo		Would vie	ewers consider this location a valued scenic or recreation	nal resource? Ves No	
There is a basic layering of foreground with a pattern of developmen	t on land and the ocean in the mid-ground and sky above.			uld the site be used for scenic or recreational enjoyment?		
				ta the site be asserted seeme of recreational enjoyment.	This is a coveted view from a lighthouse.	
ATLANTIC SHORES offshore wind		1 of 6		C SHORES offshore wind		2 of 6
			1			
Visual Impact Assessment	Personnel: Jocelyn Gav	ritt	Visual Ir	npact Assessment	Personnel: Jocelyn Gavin	<u>tt</u>
	KOP: BLB02 Barne	egat Ligh#		pastriosocomoni	KOP: BLB02 Barne	gat Ligh <mark>#</mark>
Existing Conditions	Date: 08/24/22		Proposed Co	onditions	Date: 08/24/22	
In the existing view rate the aesthetic quality/sensitivity of each resou	rce on a score of 1 to 9 (1 liability to 9 distinct)		11 .		ity of each resource on a score of 1 to 9 (1 liability to 9 d	listinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (n be a whole number score.	o impact), otherwise, rating should			is not present in the view the score should be 4.5 of 9.0 (i ould be a whole number score.	'no impact),	Score
		Score			Water Resources:	5
	Water Resources:	8			Landform:	4
	Landform:	6			Vegetation:	5
	Vegetation:	6			Land Use:	6
	Land Use:	8			User Activity:	8
	User Activity:	9				
	Existing Conditions #1 Total:	37	Collectively rate	e special conditions on a score of 0 to 9 (0 liability to 9	9 distinct)	
2. Respond to each question below using a score of 0 to 3 (0 not present	to 3 being high density)			itions score is taken directly from Existing Conditions #2 Town based upon the Proposed Conditions view.	Total and can Special Conditions:	5
Special Condition A. Does this zone contain an	y scenic, cultural, or historic landmarks?	3				
Special Condition B. Are there other aesth	netic elements that add to this resource?	2			Total:	33
Respond to each question below using a score of 0 to 3 (0 littered/pollute	ed to 3 free of litter/pollution)					
Special Condition C. Is t	this zone free from pollution and/or litter?	3	3. Comments:			
Existing Cor	nditions #2 Total (Sum 2A through 2C)	8		this location to have an extended view. This view includes the p e turbines are distant enough that they do not overwhelm the vie	proposed turbines in the distant waters. Viewers will see these turb iew.	ines as features
Existing Conditions Go 3. Comments:	rand Total (Sum #1 Total and #2 Total)	45				
This view from a lighthouse is anchored by a vast expanse of developed land in the follocation for the viewpoint at this height, which maximizes the viewing distance.	reground and open ocean views in the background. People will o	come to this				



Visual Impact Assessment	Personnel: <u>Jocelyn Ga</u> KOP: <u>BLB02 Bar</u>	Visual impact Assessing	ent
Proposed Conditions - Compatibility and Con Note: If an element is not press rating should be a whole numb	nt in the view the score should be a 0 (no impact), otherw	Proposed Conditions 8. Visibility Threshold Level - Check the b the selected KOP.	ox next to the descrip
4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 o	compatible to 3 not compatible)	Visibility Rating	
Water Resources: 2	Land Use: 2	close viewing; otherwise invisible. v	An object/phenomenon that who was unaware of it in a can be seen only after look
Landform: 1 Vegetation: 1	User Activity: 2 Total: 8	the general direction of the study subject; hotherwise likely to be missed by casual s	An object/phenomenon that norizon or looking more classes cometimes be noticed by come active looking.
5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 min		in the general direction of the study subject in	An object/phenomenon th nost casual observers, bu eascape elements.
Water Resources: 2 Landform: 1 Vegetation: 1	Land Use: 1 User Activity: 2 Total: 7	Visibility level 4. Plainly visible, so could not be missed by casual observers, but	An object/phenomenon th andscape/seascape elem attention and insufficient s
Water Resources: Landform: 1 Very late in a scale of 1 to 3 (1)	Land Use: 1 User Activity: 2	attention of views in the general direction of s the study subject. Attention may be drawn to by the strong confrast in form, line, color, or texture, luminance, or motion.	An object/phenomenon that to strongly that it is a maje ending to hold that attenti- right light sources such a subject may contribute sub- tudy subject interferes no
Vegetation: 1 7. Comments:	Total: 6	because the study subject fills most of the visual field for views in its general direction. a Strong contrasts in form, line, color, texture, it luminance, or motion may contribute to view dominance.	An object/phenomenon wi isual field, and views of it i direct view of the object. arge apparent size is a m ne, color, and texture, bri nay contribute substantial subject detracts noticeably
This simulation shows that the turbines are visible but not dominant on the horizon.	/iewers will see them, but they do not overwhelm the view.	9. Comments:	augus vuitaus iroiltadii)

Visual Impact Assessment

Date: 24 August 2022 Personnel: KAC Landscape Similarity Zone: Resident/Tourists Key Observation Point Name/Number: BLB02

Key Observation Point (KOP) Familiarization

ATLANTIC SHORES

Landscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.

The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form (proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes)

General elements of formal visual analysis to be considered include:

- Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions, especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or ephemeral landscapes.
- Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Exture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or context with these cames demand in the outlet place are context. contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.
- Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint.
- Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors.

Principles of composition to be considered include:

1. Focal Point

Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape.

Does this view contain a focal point? $\ensuremath{\mbox{\ensuremath{\square}}}$ Yes $\ensuremath{\mbox{\ensuremath{\square}}}$ No

If yes, briefly identify/describe: Horizon and neighborhood housing

2. Order

ATLANTIC SHORES

Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.

Does this view contain a natural order? Yes No If yes, how does the natural order affect the view'

Fan of residential structures out to ocean, water tower on the far right, surf edge, ocean and horizon with fluffy clouds above

Personnel: Jocelyn Gavitt

KOP: BLB02 Barnegat Light

Date: 08/24/22

tion that most closely describes the visual prominence of the Project from

Visibility Rating	Description	
Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more loosely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	√
Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape-seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object/phenomenon that is not large but contracts with the surrounding landscape elements o strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to strong contracts in form, line, color, and texture, bright light sources such as fighting and reflections! and moving objects associated with the study subject may contribute substantially of dawing viewer attention. The visual promisence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	
Visibility level 6. Dominates the view because the study subject fils most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by furning one's head more than 456 from a direct view of the object. The object/phenomenon is the major focus of visual attention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, color, and tecture, tright light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.	

packlighted condition could render the turbines much more impactful

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Visual Impact Assessment	Personnel: KAC
•	KOP: <u>BLB02</u>
Principles of composition, continued:	Date: 24 August 2022
 Visual Clutter Numerous unrelated built elements occurring within a view can create visua adverse effect on scenic quality. 	al clutter (disrupting the natural order), which generally has an
Does this view contain elements that contribute to visual clutter?	Yes No
If yes, how does the visual clutter affect the view? Mass of residential if	homes with interspersion of tree canopy.
4. Movement	
Motion of existing and proposed elements in a view can attract viewer attent	tion.
Does this view contain elements in motion that are likely to attract view	er attention? 🗹 Yes 🗆 No
(If the answer is yes, Note these elements in rating form comments)	
Factors affecting visual impact:	
5. Duration of View	
Some views are seen as quick glimpses while driving along a roadway or h of time. Longer duration views of a project, especially from significant aesth	
The duration of this view is: $\ \square$ Short Term/Fleeting $\ \square$ Long-term	
The frequency of this view is: 🗹 Repeated 🗆 Occasional	
6. Atmospheric Conditions	
Clouds, precipitation, haze, and other ambient weather-related conditions of can greatly impact the visibility and contrast of project components with lan line, color, texture, and scale.	
Conditions in this view can be described as: Clear Partly Clo	udy Overcast Hazy
Conditions that may increase/decrease visibility could be described as	s: Clear skies and time of day.
7. Lighting Direction	
Backlighting refers to a viewing situation in which sunlight is coming loware Front lighting refers to a situation where the light source is coming from bel viewed. Side lighting refers to a viewing situation in which sunlight is comin elements in a scene. Lighting direction can have a significant effect on the	hind the observer and falling directly upon the area being ng from overhead or the side of the observer to a feature or
The relevant lighting condition can be described as:	ontlit side-lit
8. Scenic or Recreational Value	
Designation as a scenic or recreational resource is an indication that there resource. The characteristics of the resource that contribute to its scenic or visual impact on that resource.	is broad public consensus on the value of that particular recreational value provide guidance in evaluating a project's
Would viewers consider this location a valued scenic or recreational resour	rce? 🗹 Yes 🗌 No
How would the site be used for scenic or recreational enjoyment?	at Lighthouse State Park and Fishing Access

Visual Impact Assessment	Personnel: KAC		Visual Impact Assessment	Personnel: KAC	
	KOP: <u>BLB02</u>		·	KOP: <u>BLB02</u>	
Existing Conditions	Date: <u>24 August 20</u>	022	Proposed Conditions	Date: 24 August 2022	2
1. In the existing view rate the aesthetic quality/sensitivity of each resource of	n a score of 1 to 9 (1 liability to 9 distinct)		With the proposed project in place, rate the aesthetic quality/sensitivity of each	resource on a score of 1 to 9 (1 liability to 9 disti	inct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no imple a whole number score.	nact), otherwise, rating should		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Score
		Score		Water Resources:	5
	Water Resources:	5		Landform:	5
	Landform:	5		Vegetation:	6
	Vegetation:	6		Land Use:	5
	Land Use:	5		User Activity:	5
	User Activity:	5			
	Existing Conditions #1 Total:	26	Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct) Note: Special Conditions score is taken directly from Existing Conditions #2 Total and ca	nn	
2. Respond to each question below using a score of 0 to 3 (0 not present to 3	being high density)		be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	2
Special Condition A. Does this zone contain any so	enic, cultural, or historic landmarks?	1			
Special Condition B. Are there other aesthetic	elements that add to this resource?	0		Total:	28
Respond to each question below using a score of 0 to 3 (0 littered/polluted to	3 free of litter/pollution)				
Special Condition C. Is this	zone free from pollution and/or litter?	1	3. Comments:		
Existing Conditi	ions #2 Total (Sum 2A through 2C)	2	There is very little noticeable change on the horizon due to the light color of the turbines on the wi the view.	ille sky. The visual clutter of the homes and trees visually	y dominates
Existing Conditions Grand 3. Comments:	d Total (Sum #1 Total and #2 Total)	28			
Cultural Historic: Barnegat Lighthouse State Park and Fishing Access					
Aesthetic: Long view to the ocean.					
Litter: Visitor litter.					
Summary of view: The view is focused on the background view to the horizon and fluffy cloudark green tree cover and homes scalered through the view. Viewer's would most likely us quality of the sky at sunset or sunrise.					
ATLANTIC SHORES offshore wind		3 of 6	ATLANTIC SHORES offshore wind		4 of 6

Visual Impact Assessmen	nt Perso	nnel: KAC	Visual Impact Assessi	ment	Personnel: KAC
Visual impuot / issussinoi		(OP: <u>BLB02</u>	'		KOP: <u>BLB02</u>
Proposed Conditions - Compatibility	and Contrast Rating	Date: <u>24 August 2022</u>	Proposed Conditions		Date: 24 August 2022
Troposou conditions compatibility	and contrast rearing			e box next to the description that most closely describes the	ne visual prominence of the Project from
	ent is not present in the view the score should be a a whole number score.	0 (no impact), otherwise,	the selected KOP.		
Rate the compatibility of the proposed project on a scale	le of 1 to 3 (1 compatible to 3 not compatible)		Visibility Rating	Description	
Water Resources:	1 Land Use:	1	Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It c who was unaware of it in advance and looking for it. Even under the can be seen only after looking at it closely for an extended period.	
Landform:	1 User Activity:	1	Visibility level 2. Visible when scanning in the general direction of the study subject;	An object/phenomenon that is very small and/or faint, but when the horizon or looking more closely at an area, can be detected without	
Vegetation:	1 Total:	5	otherwise likely to be missed by casual observers.	sometimes be noticed by casual observers; however, most people v some active looking.	vould not notice it without
5. Rate scale contrast of the proposed project on a scale o			Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look most casual observers, but without sufficient size or contrast to correseascape elements.	
Water Resources:	1 Land Use:	1	Visibility level 4. Plainly visible, so could	An object/phenomenon that is obvious and with sufficient size or co	ntrast to compete with other
	1 User Activity:	1	not be missed by casual observers, but does not strongly attract visual attention or	landscape/seascape elements, but with insufficient visual contrast t attention and insufficient size to occupy most of an observer's visua	
Vegetation:	1 Total:	5	dominate the view because of its apparent size, for views in the general direction of the study subject.		_
6. Rate spatial dominance of the proposed project on a sca	cale of 1 to 3 (1 subordinate, 2 co-dominant, 3 do	minant)	Visibility level 5. Strongly attracts the visual	An object/ohenomenon that is not large but contrasts with the surro	unding landscape elements
Water Resources:	1 Land Use:	1	attention of views in the general direction of the study subject. Attention may be drawn	so strongly that it is a major focus of visual attention, drawing viewe tending to hold that attention. In addition to strong contrasts in form,	r attention immediately and line, color, and texture,
Landform:	1 User Activity:	1	by the strong contrast in form, line, color, or texture, luminance, or motion.	bright light sources such as lighting and reflections! and moving obj subject may contribute substantially to drawing viewer attention. Th	e visual prominence of the
Vegetation:	1 Total:	5		study subject interferes noticeably with views of nearby landscape/s	<u> </u>
			Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to	An object/phenomenon with strong visual contrasts that is so large! visual field, and views of it cannot be avoided except by turning one a direct view of the object. The object/phenomenon is the major foc large apparent size is a major factor in its view dominance. In additi line, color, and texture, bright light sources and moving objects assor	's head more than 458 from us of visual attention, and its on to size, contrasts in form,
7. Comments:			view dominance.	may contribute substantially to drawing viewer attention. The visual subject detracts noticeably from views of other landscape/seascape	prominence of the study
There is very little noticeable change on the horizon due to the light of the view.	color of the turbines on the white sky. The visual clutter of	f the homes and trees visually dominates			
			9. Comments:		



/isual Impact Assessment	Visual Impact Assessment	Personnel: Kiva VanDerGeest
rate: 2022-08-24 Personnel: Kiva VanDerGee	est	KOP: <u>BLB02 - Barnegat Lig</u> t
· · · · · · · · · · · · · · · · · · ·	Principles of composition, continued:	Date: 2022-08-24
andscape Similarity Zone: <u>LCA - Recreation</u> Key Observation Point Name/Number: <u>BLB02 - Barnega</u>	1 1	/
Key Observation Point (KOP) Familiarization	Numerous unrelated built elements occurring within a view can create visual or adverse effect on scenic quality.	
andscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.	Does this view contain elements that contribute to visual clutter?	es 🗾 No
he effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment fo proposed conditions). (This form is inlended to record initial observations and should be completed quickly, taking no more than 5 in	minutes)	
	Movement Motion of existing and proposed elements in a view can attract viewer attention	
General elements of formal visual analysis to be considered include:	[] [· · · · · · · · · · · · · · · · ·	
 Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions, especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than 	Does this view contain elements in motion that are likely to attract viewer (If the answer is yes, Note these elements in rating form comments)	attention? MZ Yes LI No
panoramic, canopied, or ephemeral landscapes.	Factors affecting visual impact:	
 Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual charact of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by 	ter	
edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color		ing a trail, while others are seen for a more prolonged period
or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or	of time. Longer duration views of a project, especially from significant aesther	
contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.	The duration of this view is: ✓ Short Term/Fleeting ☐ Long-term	
 Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seasca and thus dominates seascape composition from a specific viewpoint. 	The frequency of this view is: Repeated Occasional	
 Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scal within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen an other contextual factors. 		
Principles of composition to be considered include:	Conditions in this view can be described as: ☐ Clear ☐ Partly Cloud	y 🗹 Overcast 🗹 Hazy
1. Focal Point	Conditions that may increase/decrease visibility could be described as:	visibility will increase on clear/partly cloudy days
Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their	7. Lighting Direction	
physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal poin the landscape/seascape.	Backlighting refers to a viewing situation in which sunlight is coming toward the	d the observer and falling directly upon the area being from overhead or the side of the observer to a feature or
Does this view contain a focal point? 🗹 Yes 🔲 No		
If yes, briefly identify/describe: Central point where shadow cast on land by clouds dissipates. & Roadway and water tower draw attention	n. The relevant lighting condition can be described as: 🗾 backlit 🔲 fron	tlit 🔲 side-lit
2. Order		
Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit ord by displaying traditional or logical patterns of land useldevelopment. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.	6. Scenic of Recreational value	
Does this view contain a natural order? ☑ Yes ☐ No If yes, how does the natural order affect the view?	Would viewers consider this location a valued scenic or recreational resource	? ✓ Yes □ No
The viewer's eye moves between the dark green vegetalive canopy & the muted light colors of the ocean/horizon/sky	How would the site be used for scenic or recreational enjoyment? The lighth	ouse is an NRHP within a State Park
ATLANTIC SHORES offshore wind	1 of 6 ATLANTIC SHORES offshore wind	2

Visual Impact Assessment	Personnel: Kiva VanDerG	Seest
1	KOP: BLB02 - Barn	egat Lig <u>t</u>
Existing Conditions	Date: 2022-08-24	
In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1	to 9 (1 liability to 9 distinct)	
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise be a whole number score.	e, rating should	
		Score
	Water Resources:	6
	Landform:	5
	Vegetation:	6
	Land Use:	7
	User Activity:	6
Existi	ing Conditions #1 Total:	30
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high de	ensity)	
Special Condition A. Does this zone contain any scenic, cultura	al, or historic landmarks?	3
Special Condition B. Are there other aesthetic elements to	hat add to this resource?	3
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter	/pollution)	
Special Condition C. Is this zone free fro	om pollution and/or litter?	3
Existing Conditions #2 Total	al (Sum 2A through 2C)	9
Existing Conditions Grand Total (Sur 3. Comments:	m #1 Total and #2 Total)	39
Movement attracting viewer attention: tree canopy, wave, and cloud movement		
This elevated KOP provides a view from the Barnegal lighthouse across the barrier island and out to the ope- views of the ocean, and the landform is primarily even with minimal topographic change. Vegetation is predo shoreline dune grass and scrubishrub forest are also discernible near the coastline. Land use at this KOP is use to anyone. User activity at this KOP is recreation with a focus on the State Park amenities including the l setting.	ominantly canopy from trees in the residentia State Park land open which preserve the sit	l areas, however, e for access and
This KOP is an NRHP and State Park, the elevated view provides a unique aesthetic element. No pollution is	s visible.	

Visual Impact Assessment	al Impact Assessment Personnel: Kiva VanDerGeest KOP: BLB02 - Barnegat Lis KOP: BLB02 - Barnegat Lis	
Trouble in pastriosocialists		
Proposed Conditions	Date: <u>2022-08-24</u>	
1. With the proposed project in place, rate the aesthetic quality/sensitivity of each resource	ce on a score of 1 to 9 (1 liability to 9 of	distinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Sco
	Water Resources:	5
	Landform:	4
	Vegetation:	6
	Land Use:	6
	User Activity:	5
 Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct) Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can be adjusted up or down based upon the Proposed Conditions view. 	Special Conditions:	9
	Total:	35
3. Comments:		
With the Facility in place the dark and hazy silhouette of turbines are visible on the horizon. While these tu haze and overcast conditions subdue the turbines and obscure their visibility considerably. During clear or the view and further distract viewers from the existing scene.		
Under the conditions presented in the photosimulation the turbines minimally distract from the landform wi even landscape. The vegetation is largely unaffected. Land Use is somewhat reduced as the focus on man energy, and shifts in the maritime relationship. User Activity will continue to be ocean and seascape viewin	aritime history may now include a focus on mo	dern technolo



Personnel: Kiva VanDerGeest Visual Impact Assessment KOP: BLB02 - Barnegat Liga Date: 2022-08-24 Proposed Conditions - Compatibility and Contrast Rating Note: If an element is not present in the view the score should be a 0 (no impact), otherwise, rating should be a whole number score 4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible) Land Use: Water Resources: 3 2 Landform: User Activity 3 3 Vegetation: Total: 2 13 5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) Water Resources: 3 Land Use: 3 Landform 2 User Activity: 3 Vegetation: 2 Total: 13 6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominant) Water Resources Land Use 2 Landform User Activity: 2 Vegetation: Total 2 10 7 Comments: The turbines are not compatible with the water resources or landform, but are somewhat compatible with the canopy vegetation in this view. Land use and user activity re also somewhat compatible as the focus will continue to be on viewing the ocean contrast with land use and user activity as the light house was once the dominant hight point and numerous lowers are now available on the horizon

The turbines subdued by haze become co-dominant with the landscape features. However, under clear conditions it is likely that they may become dominant at this

ATLANTIC SHORES

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Personnel: Kiva VanDerGeest

KOP: BLB02 - Barnegat Ligh

Date: 2022-08-24

Proposed Conditions

8. Visibility Threshold Level - Check the box next to the description that most closely describes the visual prominence of the Project from the selected KOP

Visibility Rating	Description	
Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it dosely for an extended period.	
Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more loosely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	5
Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or lexture, luminance, or motion.	An objectliphenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a majer flocus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to strong contrasts in form, line, color, and texture, bright light sources such as lighting and reflectionsl and moving objects associated with the study subject may contribute substantially of drawing viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	
Visibility level 6. Dominates the view because the study subject filis most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by turning one's head more than 45 from a direct view of the object. The object/phenomenon is the image focus of visual attention, and fils large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, cofer, and technic philight just consecs and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject defracts noticeably from views of other landscape/seascape elements.	

9. Comments:

ue to the hazy over cast conditions the turbines are visible, but faint and do not compete with major landscape elements. They may be considered co-dominant with in this view. However, under other lighting and sky conditions it is anticipated that the VTL may be higher

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Visual Impact Assessment	
Date: August 24, 2022	Personnel: Steve Breitzka
Landscape Similarity Zone: Recreation	Key Observation Point Name/Number: BLB02
Key Observation Point (KOP) Familiarization	
Landerson/sonerana viouse and soluted factors to be considered di	ring auglication of the KOP are pullined halow.

The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form (proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes)

General elements of formal visual analysis to be considered include:

- Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by
 their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions,
 especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or ephemeral landscapes.
- Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined yedge, outline, and surrounding space. Line refers to the path the eye follows when perceiving aborupt changes from, color, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or contrast with those same elements in the existing landscape/seascape is a primary determinant of visual impact.
- Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscap and thus dominates seascape composition from a specific viewpoint.
- Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors.

Principles of composition to be considered include:

1. Focal Point

Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points offen contrast with their surroundings in color, form, scale, or texture, and therefor tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinct lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal in the landscape/seascape.

Does this view contain a focal point? Yes No

If yes, briefly identify/describe; Water lower far right and interesting architecture scattered among mature vegetation in the foreground.

2. Order

Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with this natural order may defract from scenic quality. When a new project is introduced to the landscape, inatenses and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural

Does this view contain a natural order? W Yes D No. If yes, how does the natural order affect the view?

Seaside town development with two to three-story single-residential homes. The homes all appear to be similar sizes although they vary in style and color. The homes and adjacent trees do not illustrate a particular street pattern.

Visual Impact Assessment

Personnel: Steve Breitzka
KOP: BLB02
Date: August 24, 2022

Principles of composition, continued:

Visual Clutter
Numerous unrelated built elements occurring within a view can create visual clutter (disrupting the natural order), which generally has a
adverse effect on scenic quality.

Does this view contain elements that contribute to visual clutter? Yes No

If yes, how does the visual clutter affect the view? The architecture creates a clutter though it is not negative or disruptive. The angles and colors create a unique built texture for the foreground, softened by mature tree

4. Movement

Motion of existing and proposed elements in a view can attract viewer attention.

Does this view contain elements in motion that are likely to attract viewer attention?

Yes

No.

(If the answer is yes. Note these elements in rating form comments)

Factors affecting visual impact:

5. Duration of View

Some views are seen as quick glimpses while driving along a roadway or hiking a trial, while others are seen for a more prolonged period of time. Longer duration views of a project, especially from significant aesthetic resources, have the greatest potential for visual impact.

The duration of this view is: Short Term/Fleeting Long-term

The frequency of this view is:

Repeated
Occasional

Clouds, precipitation, haze, and other ambient weather-related conditions can affect the visibility of an object or objects. These or can greatly impact the visibility and contrast of project components with landscape/seascape elements and the design elements of form.

Conditions in this view can be described as:

Clear Partly Cloudy Overcast Hazy

Conditions that may increase/decrease visibility could be described as: There is a haze at the honzon, middle of the view than the sides.

7. Lighting Direction

Backlighting refers to a viewing situation in which sunlight is coming toward the observer from behind a feature or elements in a scene. Front lighting refers to a situation where the light source is coming from behind the observer and falling directly upon the area being viewed. Side lighting refers to a viewing situation in which sunlight is coming from overhead or the side of the observer to a feature or elements in a scene. Lighting direction can have a significant effect on the visibility and contrast of landscape and project elements.

The relevant lighting condition can be described as: | backlit | frontlit | side-lit

8. Scenic or Recreational Value

Designation as a scenic or recreational resource is an indication that there is broad public consensus on the value of that particular resource. The characteristics of the resource that contribute to its scenic or recreational value provide guidance in evaluating a project's visual impact on that resource.

Would viewers consider this location a valued scenic or recreational resource? Ves No

How would the site be used for scenic or recreational enjoyment? Climbing the Barnegat Lighthouse and gazing out over the town from 172 in the air.

Visual Impact Assessment	Personnel: Steve B	reitzka	Visual Impact As	ssessment	Personnel: Steve Breitz	ka
	KOP: BLB02		- F Could St. Butter of		KOP: BLB02	
Existing Conditions	Date: August	24, 2022	Proposed Conditions		Date: August 24, 2	022
1. In the existing view rate the aesthetic quality/	sensitivity of each resource on a score of 1 to 9 (1 liability to 9 distinct) ore should be 4.5 of 9.0 (no impact), otherwise, rating should		1. With the proposed project in place.	rate the aesthetic quality/sensitivity of each review the score should be 4.5 of 9.0 (no immed).	esource on a score of 1 to 9 (1 liability to 9 (distinct) Score
Le a prime finitives sucres		Score	ornerwise, raining should be a whole north	per suuve,	Water Resources:	6
	Water Resources	7			Landform:	5
	Landform	5			Vegetation:	7
	Vegetation	7			Land Use:	7
	Land Use	8			User Activity:	8
	User Activity	9			Dod Addivity.	0
	Existing Conditions #1 Total	36	Collectively rate special conditions	on a score of 0 to 9 (0 liability to 9 distinct)		
2. Respond to each question below using a sco	re of 0 to 3 (0 not present to 3 being high density)	50		strectly from Existing Continions #2 Total and can	Special Conditions:	
Special Condition A. Does	this zone contain any scenic, cultural, or historic landmarks?	3	2.0		opedia conditions.	7
2.000	Are there other aesthetic elements that add to this resource?	3			Total:	40
		3	3. Comments:			
Spe	icial Condition C. Is this zone free from pollution and/or litter		The proposed turbines are almost impercepti	ble on the distant horizon where the gray sky and gray ominence. Viewing the turbines left and right of center	water join. There is a small grouping in the center	of the view where
	Existing Conditions #2 Total (Sum 2A through 2C)	9	There is little impact on the overall scene, ho	wever, visitors to the lighthouse expecting an open and make them more visible and the only consistent mover	d expansive view from the top will catch glimpses of	turbines dotting
3. Comments:	isting Conditions Grand Total (Sum #1 Total and #2 Total)	45				
ATLANTIC SHORES offshore wind		3 of 6	ATLANTIC SHORES offshore wind			4 of
Visual Impact Asses		reitzka	Visual Impact Assess	ment	Personnel: Steve Breitzi	ka
	KOP: BLB02				KOP: BLB02	-
	tibility and Contrast Rating If an element is not present in the view the score should be a 0 (no impact), at should be a whole number score.		Proposed Conditions 8. Visibility Threshold Level - Check th the selected KOP.	e box next to the description that most closel	Date: <u>August 24, 2</u> ly describes the visual prominence of the P	
4. Rate the compatibility of the proposed projec	t on a scale of 1 to 3 (1 compatible to 3 not compatible)		Visibility Rating	Descrip	11111	
Water Resources:	1 Land Use; 1		Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the axtreme firm who was unaware of it in advance and looking for it can be seen only after looking at it closely for an ex-	Even under those circumstances, the object	
Landform: Vegetation:	1 User Activity: 2 1 Total: 6		Visibility level 2: Visible when scanning in the general direction of the study subject: otherwise exery to be missed by casual observers.	An object/phenomenon that is very small and/or fail horizon or looking more closely at an area, can be a sometimes be noticed by casual observers; however, some active looking.	detected without extended viewing. It could	V
5. Rate scale contrast of the proposed project o			Visibility level 3. Visible after a trief glance in the general direction of the study subject and unlikely to be reissed by casual or control of the con	An object/phenomenon that can be easily detected most casual observers, but without sufficient size o seascape elements.	after a bnef look and would be visible to r contrast to compete with major landscape/	
Water Resources:	1 Land Use: 1		observers. Visibility level 4: Plainty visible, so could	An object/phenomenon that is obvious and with suf		
Landform: Vegetation:	1 User Activity: 1 1 Total: 5		not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of	landscape/seascape elements, but with insufficient attention and insufficient size to occupy most of an		
	ict on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominant)		size, for views in the general direction of the study subject.			
Water Resources:	1 Land Use: 1 1 User Activity: 1		Visibility level 5. Strongly altracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or lexitive, luminance, or motion.	tending to hold that attention. In addition to strong or bright light sources such as lighting and reflections! subject may contribute substantially to drawing view	n, drawing viewer attention introductely and contrasts in form, line, color, and texture, and moving objects associated with the study wer attention. The visual prominence of the	
Vegetation:	1 Total: 5	Ç.	Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction:	study subject interferes noticeably with views of new An object/ohenomenon with strong visual contrasts visual field, and views of it cannot be avoided excep a direct view of the object. The object/ohenomenon	that is so large that it occupies most of the pt turning one's head more than 458 from	
7. Comments:			Strong contrasts in form, line, color, texture, immunos, or motion may contribute to view dominance.	large apparent size is a major factor in ts view dom line, color, and texture, bright light sources and mo- may contribute substantially to drawing viewer atter sublect deliracts noticeably from views of other land	inance. In addition to size, contrasts in form, ving objects associated with the study subject ation. The visual prominence of the study	
The turbines have a limited impact on the overall scene, and cloud cover,	They add an obscure focal point from the elevated lighthouse view although their visib	lity will depend on lighting				

9. Comments

The furbines may become more visible and apaprent when in motion

	VP	Personnel: Jocelyn Gavitt
Visual Impact Assessment	Visual Impact Assessment	KOP: BRT01 Bass River SF
Date: 2/16/21 Personnel: Jocelyn Gavi	Principles of composition, continued:	· ———
Landscape Similarity Zone: Salt Marsh Key Observation Point Name/Number: BRT01 Bass		Date: <u>2/16/21</u>
Key Observation Point (KOP) Familiarization	Numerous unrelated built elements occurring within a view of adverse effect on scenic quality.	can create visual clutter (disrupting the natural order), which generally has an
andscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.	Does this view contain elements that contribute to visual	Il clutter? Yes V No
The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessmen	ent form If yes, how does the visual clutter affect the view?	
proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than		
General elements of formal visual analysis to be considered include:	Motion of existing and proposed elements in a view can attra	act viewer attention.
Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by		y to attract viewer attention?
their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some composition especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications the panoramic, canopied, or ephemeral landscapes.		n comments)
Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual cha	Factors affecting visual impact:	
of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, or	by 5. Duration of View	
or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers	s to of time. Longer duration views of a project, especially from	a roadway or hiking a trail, while others are seen for a more prolonged period significant aesthetic resources, have the greatest potential for visual impact.
the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.	to or The duration of this view is: Short Term/Fleeting	Long-term
 Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/sea and thus dominates seascape composition from a specific viewpoint. 	eascape The frequency of this view is: Repeated 🗹 Occ	casional
 Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen other contextual factors. 	n and Clouds, precipitation, haze, and other ambient weather-rela	tled conditions can affect the visibility of an object or objects. These conditions onents with landscape/seascape elements and the design elements of form,
Principles of composition to be considered include:	Conditions in this view can be described as: 🗹 Clear	r ☐ Partly Cloudy ☐ Overcast ☐ Hazy
1. Focal Point	Conditions that may increase/decrease visibility could	be described as: Increased moisture in the atmosphere could reduce visibility.
Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefor tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinct lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal in the landscape/seascape.	ore Backlighting refers to a viewing situation in which sunlight is tive Backlighting refers to a viewing situation in which sunlight is If points Pront lighting refers to a situation where the light source is viewed. Side lighting refers to a viewing situation in which s	s coming toward the observer from behind a feature or elements in a scene. coming from behind the observer and falling directly upon the area being unlight is coming from overhead or the side of the observer to a feature or nt effect on the visibility and contrast of landscape and project elements.
Does this view contain a focal point? ☑ Yes ☐ No		
If yes, briefly identify/describe: The horizon line generally acts as the focus of this view.	The relevant lighting condition can be described as:	backlit frontlit side-lit
2. Order Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent withis natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and o are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.	with Oesignation as a second or recreational resource is an indic	ation that there is broad public consensus on the value of that particular to its scenic or recreational value provide guidance in evaluating a project's
Does this view contain a natural order? Yes No If yes, how does the natural order affect the view?	Would viewers consider this location a valued scenic or rec	reational resource? 🗹 Yes 🔲 No
The layering of the fields in the foreground, distant vegetation in the mid-ground and the sky meeting the land at the horizon create a nature to this view.	ral order How would the site be used for scenic or recreational enjoy	ment? Residents or tourists may pass through this area.
ATLANTIC SHORES offshore wind	1 of 6 ATLANTIC SHORES offshore wind	20

GIVII OI III GILL				
Does this view contain a natural order? Yes No If yes, how does the natural order affect the view?		Would viewers consider this location a valued scenic or recreational resource?	Yes No	
The layering of the fields in the foreground, distant vegetation in the mid-ground and the sky meeting the land at the horizon create a natural order to this view.		How would the site be used for scenic or recreational enjoyment? Residents or tourist	ts may pass through this area.	
ATLANTIC SHORES offshore wind	1 of 6	ATLANTIC SHORES offshore wind		2 of 6
Visual Impact Assessment Personnel: Jocelyn		Visual Impact Assessment	Personnel: Jocelyn Gavi	
KOP: <u>BRT01 B</u>	Bass River SF		KOP: BRT01 Bass	River SF
Existing Conditions Date: 2/16/21		Proposed Conditions	Date: 2/16/21	
1. In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1 liability to 9 distinct)		With the proposed project in place, rate the aesthetic quality/sensitivity of each resource.	ce on a score of 1 to 9 (1 liability to 9 c	distinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Score
	Score		Water Resources:	4.5
Water Resources:	4.5		Landform:	5
Landform:	5		Vegetation:	5
Vegetation:	6		Land Use:	6
Land Use:	6		User Activity:	5
User Activity:	5			
Existing Conditions #1 Total:	26.5	2. Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct)		
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high density)		Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	5
Special Condition A. Does this zone contain any scenic, cultural, or historic landmarks?	2			3
Special Condition B. Are there other aesthetic elements that add to this resource?	1		Total:	30.5
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/pollution)				
Special Condition C. Is this zone free from pollution and/or litter?	3	3. Comments:		
Existing Conditions #2 Total (Sum 2A through 2C)	6	The proposed turbines are barely visible from this viewpoint and will likely go unnoticed by the viewe the direction of the turbines and the impact can be classified as minimal.	r. This is not a location that prompts long,	repeated views in
Existing Conditions Grand Total (Sum #1 Total and #2 Total) 3. Comments:	32.5			
This is a wide open view across salt marsh. There is little complexity to the view. The horizon is the focus, with contrasting fields of colo the sky. There is some textural focus in the foreground created by varying vegetation.	r in the foreground and			

Personnel: Jocelyn Gavitt Visual Impact Assessment KOP: BRT01 Bass River SF Date: 2/16/21 **Proposed Conditions - Compatibility and Contrast Rating** Note: If an element is not present in the view the score should be a 0 (no impact), otherwise, rating should be a whole number score. 4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible) Land Use: Water Resources: 0 1 Landform: 1 User Activity: 1 Vegetation: Total: 4 5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) Water Resources: 0 Land Use: Landform: 1 User Activity: Vegetation: 1 Total: 4 6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominant) Water Resources Land Use: Landform: User Activity: Vegetation: Total: 7. Comments: Small portions of the proposed turbines can be seen in this simulation, and may be most noticed due to their motion, but are not visible enough to create much impact. They are likely to be lost in the presence of the vegetation in the mid-ground of the view

ATLANTIC SHORES offshore wind

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Visual Impact Assessment

Personnel: Jocelyn Gavitt

KOP: BRT01 Bass River SF

Date: 2/16/21

Proposed Conditions

8. Visibility Threshold Level - Check the box next to the description that most closely describes the visual prominence of the Project from the selected KOP,

Visibility Rating	Description	
Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more loosely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	✓
Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief book and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	
Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscapes/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to storage contrasts in form, line, color, and texture, bright light sources such last lighting and reflections? and moving objects associated with the study subject may contribute substantially of drawing viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	
Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance.	An object/phenomena with sturry visual contrasts that is so large that I occupies most of the visual field, and views of it cannot be avoided except by luming one's head more than 45° from which is a major factor in the large apparent size is a major factor in its view dominance. In addition to size, contrasts in form line, color, and texture, bright light sources and moving objects associated with the study subject may contribute substantially to drawing views etation. To the visual prominence of the study subject defracts noticeably from views of other landscape/seascape elements.	

ATLANTIC SHORES offshore wind

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The proposed conditions are not very noticeable. Portions of the turbines can be seen, but they will likely go unnoticed much of the time

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Visual Impact Assessment	
Date: 16 February 2021	Personnel: KAC
Landscape Similarity Zone: Salt Marsh	Key Observation Point Name/Number: <u>BRT01 Bass R SF</u>
Key Observation Point (KOP) Familiarizati	ion
Landscape/seascape, viewer, and related factors to be consider	red during evaluation of the KOP are outlined below.
	corporated into the scoring and comments on the VIA assessment form servations and should be completed quickly, taking no more than 5 minutes,
General elements of formal visual analysis to be considered	dered include:

- Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetalion, landform, water, and sky. Some compositions especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or ephemeral landscapes.
- Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impart of visual impart.
- Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint.
- Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors.

Principles of composition to be considered include:

1. Focal Point

Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape.

Does this view contain a focal point? 🗹 Yes 🔲 No

If yes, briefly identify/describe: Topological undulation and horizon line.

2. Order

ATLAN

Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land used/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.

Does this view contain a natural order?
Yes No If yes, how does the natural order affect the view?

Textured grass, scrub, marshland, low hills, man-made structures and horizon: flat landscape almost perfectly divided into equal bands of blue sky and green grass.

ITIC SHORES offshore wind	1 of 6	

Visual Impact Assessment	Personnel: KAC
'	KOP: BRT01 Bass R SF
Principles of composition, continued:	Date: 16 February 2021
 Visual Clutter Numerous unrelated built elements occurring within a view can create visual clutter adverse effect on scenic quality. 	(disrupting the natural order), which generally has an
Does this view contain elements that contribute to visual clutter?	1 No
If yes, how does the visual clutter affect the view? N/A	
Movement Motion of existing and proposed elements in a view can attract viewer attention.	
Does this view contain elements in motion that are likely to attract viewer attenti	ion? 🗹 Yes 🗆 No
(If the answer is yes, Note these elements in rating form comments)	
Factors affecting visual impact:	
 Duration of View Some views are seen as quick glimpses while driving along a roadway or hiking a to of time. Longer duration views of a project, especially from significant aesthetic resr 	
The duration of this view is: $\ensuremath{\square}$ Short Term/Fleeting $\ensuremath{\square}$ Long-term	
The frequency of this view is: Repeated Occasional	
6. Atmospheric Conditions Clouds, precipitation, haze, and other ambient weather-related conditions can affect can greatly impact the visibility and contrast of project components with landscape/ line, color, texture, and scale.	
Conditions in this view can be described as: 🗹 Clear 🔲 Partly Cloudy 🗖	Overcast Hazy
Conditions that may increase/decrease visibility could be described as: Any atr	
7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming toward the obs Front lighting refers to a situation where the light source is coming from behind the viewed. Side lighting refers to a viewing situation in which sunlight is coming from o elements in a scene. Lighting direction can have a significant effect on the visibility	observer and falling directly upon the area being werhead or the side of the observer to a feature or
The relevant lighting condition can be described as:] side-lit
 Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that there is broad resource. The characteristics of the resource that contribute to its scenic or recreativisual impact on that resource. 	
Would viewers consider this location a valued scenic or recreational resource?	Yes No
How would the site be used for scenic or recreational enjoyment?	Refuge and Bass River Forest Historic District.

Visual Impact Assessment	Personnel: KAC		Visual Impact Assessment	Personnel: KAC	
	KOP: BRT01 Bass	R SF	Visual impact //sscssment	KOP: BRT01 Bass	R SF
Existing Conditions	Date: 16 February	2021	Proposed Conditions	Date: 16 February 2	2021
1. In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1 li	ability to 9 distinct)		With the proposed project in place, rate the aesthetic quality/sensitivity of each resor	urce on a score of 1 to 9 (1 liability to 9 c	distinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating s be a whole number score.	ihould		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Score
		Score		Water Resources:	4.5
,	Water Resources:	4.5		Landform:	6
	Landform:	6		Vegetation:	6
	Vegetation:	6		Land Use:	6
	Land Use:	6		User Activity:	6
	User Activity:	6			
Existing Co.	nditions #1 Total:	28.5	Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct) Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can		
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high density)			be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	5
Special Condition A. Does this zone contain any scenic, cultural, or hi	istoric landmarks?	2			
Special Condition B. Are there other aesthetic elements that add	to this resource?	1		Total:	33.5
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/pollutio	n)				
Special Condition C. Is this zone free from poll	lution and/or litter?	2	3. Comments:		
Existing Conditions #2 Total (Sun	n 2A through 2C)	5	In this view, the installed project is almost invisible behind the undulating background terrain and n rotor blades have the opportunity to draw the viewer's attention as they look across the salt marsh engagement of small mammals, birds and flower species have the potential to keep the viewer's a	, however, any foreground distractions such a	as the
Existing Conditions Grand Total (Sum #1 To 3. Comments:	otal and #2 Total)	33.5	addition, as the foreground and midground scrub vegetation grows taller in this view it may further turbine blade tips.	obstruct the clear view to the horizon line and	i proposed
Cultural Historic: National Wildlife Refuge and Bass River Forest Historic District.					
Aesthetic: Grassy vegetation with low scrub vegetation.					
Litter: Limited visitor litter.					
Summary of View: Highly textured grass and scrub vegetation in the foreground that emphasizes the flatness of to the low, undusting terrain and man-made structures. The grassy vegetation is interspersed with low scrub ve of the grass by the wind would be pleasing to walk through. The view is relatively undeveloped with man-made thereby increasing the sense of remoteness and the immersement into the natural environment.	egetation is visually dynamic an	nd the movement			
ATLANTIC SHORES offshore wind		3 of 6	ATLANTIC SHORES offshore wind		4 of 6
Visual Impact Assessment	Personnel: KAC		Visual Impact Assessment	Personnel: KAC	
	VOD. RRT01 Race	DCF		VOD. RRT01 Rass	R SF

Visual Impact Assessr	nent P	ersonnel: KAC	Visual Impact Assessi	ment Personnel: KAC
·		KOP: BRT01 Bass R SF		KOP: BRT01 Bass R SF
Proposed Conditions - Compatibi	ility and Contrast Rating	Date: 16 February 2021	Proposed Conditions	Date: <u>16 February 2021</u>
	n element is not present in the view the score should uld be a whole number score.	be a O (no impact), otherwise,	8. Visibility Threshold Level - Check th the selected KOP.	e box next to the description that most closely describes the visual prominence of the Project from
Rate the compatibility of the proposed project on	a scale of 1 to 3 (1 compatible to 3 not compatible	e)	Visibility Rating	Description
Water Resources:	1 Land Use:	1	Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.
Landform: Vegetation:	1.5 User Activity: 1 Total:	5.5	Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.
5. Rate scale contrast of the proposed project on a s			Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most exaul observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.
Water Resources: Landform:	1 Land Use: 1.5 User Activity:	1	Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.
Vegetation:	1 Total:	5.5	dominate the view because of its apparent size, for views in the general direction of the study subject.	
Rate spatial dominance of the proposed project o	n a scale of 1 to 3 (1 subordinate, 2 co-dominant,	3 dominant)	Visibility level 5. Strongly attracts the visual	An object/phenomenon that is not large but contrasts with the surrounding landscape elements
Water Resources:	1 Land Use:	1	attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or	tending to hold that attention. In addition to strong contrasts in form, line, color, and texture,
Landform:	1.5 User Activity:	1	texture, luminance, or motion.	subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements.
Vegetation:		5.5	Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by furning one's head more than 45° from a direct view of the object. The object/phenomenon is the major focus of visual altention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, color, and eloubre, trinkt light hources and moving objects associated with the study subject
7. Comments:			view dominance.	may contribute substantially to drawing viewer attention. The visual prominence of the study subject subject detracts noticeably from views of other landscape/seascape elements.
Compatibility: The installed Project is almost imperceptible	e.			
Scale: The installed Project is almost imperceptible.				
Spatial Dominance: The installed Project is almost imperc	reptible.			
			9. Comments:	
			N/A	



Signal Impact Accessment	Visual Impact Assessment	Personnel: KV
Visual Impact Assessment	visual impact / tosessment	KOP: BRT01 - Bass River F
Date: <u>02-17-2021</u> Personnel: <u>KV</u>	Principles of composition, continued:	Date: 02-17-2021
andscape Similarity Zone: Salt Marsh Key Observation Point Name/Number: BRT01 - Bass River F	3. Visual Clutter	
Key Observation Point (KOP) Familiarization	Numerous unrelated built elements occurring within a view can create visual cl adverse effect on scenic quality.	utter (disrupting the natural order), which generally has an
andscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.	Does this view contain elements that contribute to visual clutter?	es 🔽 No
The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes)	If yes, how does the visual clutter affect the view?	
proposed conditions). (This form is interaced to record initial observations and should be completed quietly, taking no more than 5 minutes)	4. Movement	
General elements of formal visual analysis to be considered include:	Motion of existing and proposed elements in a view can attract viewer attention	
 Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions, 	Does this view contain elements in motion that are likely to attract viewer a (If the answer is yes, Note these elements in rating form comments)	attention? 🗹 Yes 🗌 No
especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or ephemeral landscapes.		
• Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character	Factors affecting visual impact:	
of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color,	Duration of View Some views are seen as quick glimpses while driving along a roadway or hikir	ng a trail, while others are seen for a more prelenged period
or lexture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to	of time. Longer duration views of a project, especially from significant aestheti	ic resources, have the greatest potential for visual impact.
the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.	The duration of this view is: 🗹 Short Term/Fleeting 🗹 Long-term	
 Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint. 	The frequency of this view is: 🗹 Repeated 🗹 Occasional	
Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale	6. Atmospheric Conditions	
within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors.	Clouds, precipitation, haze, and other ambient weather-related conditions can can greatly impact the visibility and contrast of project components with lands: line, color, texture, and scale.	
Principles of composition to be considered include:	Conditions in this view can be described as: ☐ Clear ☑ Partly Cloud	y Overcast Hazy
1. Focal Point	Conditions that may increase/decrease visibility could be described as: h	azy/overcast days may limit visibility at this location
Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, of therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape.	7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming toward th Front lighting refers to a situation where the light source is coming from behin viewed. Side lighting refers to a viewing situation in which sunlight is coming if elements in a scene. Lighting direction can have a significant effect on the vis	d the observer and falling directly upon the area being rom overhead or the side of the observer to a feature or
Does this view contain a focal point? ☐ Yes ☑ No		
If yes, briefly identify/describe: A variety of vegetation both distant and near draw viewer attention, but neither serve as a primary focal point	The relevant lighting condition can be described as: backlit front	lit 🗾 side-lit
2. Order		
Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/development. Elements in the landscape that are incisstent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.	8. Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that there is I resource. The characteristics of the resource that contribute to its scenic or re visual impact on that resource.	
Does this view contain a natural order? ☑ Yes ☐ No If yes, how does the natural order affect the view?	Would viewers consider this location a valued scenic or recreational resource	? ✓ Yes □ No
natural order in this view helps: the gaze read across the view by scanning layered colors of vegetation from near foreground to distant background through the sky and back again.	How would the site be used for scenic or recreational enjoyment? This area is	s part of the Bass River State Forest, and holds an informal
ATLANTIC SHORES 1 of 6	ATLANTIC SHORES offshore wind	2

Visual Impact Assessment	Personnel: KV	
1	KOP: <u>BRT01 - Bas</u>	s River F
Existing Conditions	Date: <u>02-17-2021</u>	
$1. In the \ existing \ view \ rate \ the \ aesthetic \ quality/sensitivity \ of \ each \ resource \ on \ a \ score$	e of 1 to 9 (1 liability to 9 distinct)	
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), other be a whole number score.	erwise, rating should	
		Score
	Water Resources:	4.5
	Landform:	6
	Vegetation:	6
	Land Use:	6
	User Activity:	5
E	ixisting Conditions #1 Total:	27.5
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being his	gh density)	
Special Condition A. Does this zone contain any scenic, co	ultural, or historic landmarks?	2
Special Condition B. Are there other aesthetic eleme	nts that add to this resource?	1
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of	f litter/pollution)	
Special Condition C. Is this zone from	ee from pollution and/or litter?	3
Existing Conditions #2	Total (Sum 2A through 2C)	6
Existing Conditions Grand Total 3. Comments:	(Sum #1 Total and #2 Total)	33.5
Movement attracting viewer attention: wetland grasses on a breezy day.		
Bass River State Forest preserves NJ Pine Barren forest landscape and the wetlands woven thro of dense forest where marsh grasses and shrubs flourish, but water resources are not visible. Th background hills are visible on the horizon but lend tittle verticality. The horizon line is generally is and calm, represent a common view within this area of the Salt Marsh. Land Use and User Activi area. However, the distant housing development suggests that residents will look out towards this suggests that views at this location may be both short-term, occasional or fonderim, repeated de	ne landform is that of a low lying marsh with ge evel across the view. Landform and Vegetatior ity are minimal as this is primarily and unmaint is area to provide a sense of openness and rur	ntle undulation. n, although seren ained natural

Visual Impact Assessment	Personnel: KV	
Visual impust / issues in int	KOP: <u>BRT01 - Bas</u>	s River F
Proposed Conditions	Date: <u>02-17-2021</u>	
With the proposed project in place, rate the aesthetic quality/sensitivity of each resour	ce on a score of 1 to 9 (1 liability to 9 (distinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Sco
опіснизе, ташу эпоши ре а мінле питрет засле.	Water Resources:	4.
	Landform:	5
	Vegetation:	6
	Land Use:	6
	User Activity:	5
Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	6
	Total:	32
3. Comments:		
The turbines within this view are situated at a distance in which blade tips will be the primary visible also be visible primarily those that sit within a valley of two distant hills.	component of the Project. The nacelle of a	few turbines
Turbines at such a distance, and primarily screened by distant hills and vegetation, are likely to have activity. However, due to a lack of existing focal point, or other strong visual components in the foregover the distant hills is likely to attract viewer attention and distract from the serene and still natural of the contract of the serene and still natural of the serene and	round, the movement of the turbine blades	



Visual Impact Assessment	Personnel: KV	Visual Impact Assessr	ment Personnel: <u>KV</u>
Visual impuot / issossiment	KOP: BRT01 - Bass River F	'	KOP: BRT01 - Bass River Fo
Proposed Conditions - Compatibility and Contrast Rating Note: If an element is not present in the view the rating should be a whole number score.		Proposed Conditions 8. Visibility Threshold Level - Check the the selected KOP.	Date: 02-17-2021 box next to the description that most closely describes the visual prominence of the Project from
tung shada ee a maa hahaa sees.			
4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 n	ot compatible)	Visibility Rating Visibility level 1. Visible only after extended,	Description An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person
Water Resources: 0	and Use: 2	close viewing; otherwise invisible.	who was unaware of it in advance and booking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.
Landform: 2 Use Vegetation: 2	r Activity: 2 Total: 8	Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.
5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe Water Resources:	and Use:	Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.
	r Activity: 1 Total: 6	Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.
Landform: 1 Use	and Use: 1 1 r Activity: 1	Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or testure, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and lending in hold that attention in addition to strong contrasts in form. line, color, and texture, bright light sources such as lighting and reflections and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject limits reflected by with views of neatity landscape/basescape elements.
Vegetation: 1 7. Comments: The WTGs in this view, and at such a distance, are somewhat compatible with other developed ele	Total: 4	Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in fix general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance.	An objectlyhenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by turning one's head more than 45° from a direct view of the object. The object/phenomenon is he map forcus of visual attention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in from, line, color, and teurure, tripful high sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.
distant hills and vegetation, but this unlikely to have great impact on users of this resource. Althoug take place this is likely to be minimal. Similarly the WTGs while present in the view do not dominate the place this is likely to be minimal. Similarly the WTGs while present in the view do not dominate the place this is likely to be minimal. Similarly the WTGs while present in the view do not dominate the place this is likely to be minimal.	h some distraction from the movement of the turbines may	observers" While some turbines in this view with more	are compatible with VTL 3 describing 'can be easily detected after a brief look and would be visible to most casual ample screening (from distant topography) may more closely align with the VTL 2 description the more apparent hes the entire view into the VTL 3 range. During times of poor visibility, such as overcast or mostly cloudy days,

ATLANTIC SHORES
offshore wind

	Personnel: Steve Breitzka
andscape Similarity Zone: Salt Marsh	Key Observation Point Name/Number: BRT01
Key Observation Point (KOP) Familiarization	on
andscape/seascape, viewer, and related factors to be considered	d during evaluation of the KOP are outlined below.
	orporated into the scoring and comments on the VIA assessment form ervations and should be completed quickly, taking no more than 5 minutes,
General elements of formal visual analysis to be consider	ered include:
their spatial arrangement. Basic landscape components	t of objects and voids in the landscape that can be categorized by include vegetation, landform, water, and sky. Some compositions, ted, or feature-oriented, are more vulnerable to modifications than
of a landscape/seascape, as well as a project. Form refe edge, outline, and surrounding space. Line refers to the or texture, usually evident as the edges of shapes or ma the visual surface characteristics of an object. The exter	ijor compositional elements that define the perceived visual character ers to the shape of an object that appears unified, often defined by path the eye follows when perceiving abrupt changes in form, color, ssses in the landscape/seascape. Texture, in this context, refers to it to which form, line, color, and lexture of a project are similar to or cape/seascape is a primary determinant of visual impact.
Spatial Dominance: The degree to which an object or I and thus dominates seascape composition from a speci	andscape/seascape element occupies space in a landscape/seascape fic viewpoint.
	in relation to its surroundings can define the compatibility of its scale is likely to vary depending on the distance from which it is seen and
Principles of composition to be considered include	:
1. Focal Point	
physical characteristics. Focal points often contrast with tend to draw a viewer's attention. Examples include pro	ures stand out and are particularly noticeable as a result of their n their surroundings in cotor, form, scale, or texture, and therefore minent trees, mountains, or cultural features, such as a distinctive e sited so as to obscure or compete with important existing focal points
Does this view contain a focal point? Yes	l No
If yes, briefly identify/describe:	
2. Order	
Natural landscapes/seascapes have an underlying ord- by displaying traditional or logical patterns of land use/ this natural order may detract from scenic quality. When	or determined by natural processes. Cultural landscapes exhibit order development. Elements in the landscape that are inconsistent with n a new project is introduced to the landscape, intactness and order c, colors, and textures existing in the surrounding built or natural

Visual Impact Assessment	Personnel: Steve Breitzka
	KOP: <i>BRT01</i>
Principles of composition, continued:	Date: February 18, 2021
3. Visual Clutter	
Numerous unrelated built elements occurring within a view can create adverse effect on scenic quality.	ate visual clutter (disrupting the natural order), which generally has an
Does this view contain elements that contribute to visual clutte	? 🔲 Yes 🗹 No
If yes, how does the visual clutter affect the view?	
4. Movement	
Motion of existing and proposed elements in a view can attract view	rer attention.
Does this view contain elements in motion that are likely to attr	act viewer attention?
(If the answer is yes, Note these elements in rating form comm	nents)
Factors affecting visual impact:	
5. Duration of View	
Some views are seen as quick glimpses while driving along a road	way or hiking a trail, while others are seen for a more prolonged period ant aesthetic resources, have the greatest potential for visual impact.
The duration of this view is: $\ensuremath{\square}$ Short Term/Fleeting $\ensuremath{\square}$ Lo	ng-term
The frequency of this view is: Repeated Occasional	I
6. Atmospheric Conditions	
Clouds, precipitation, haze, and other ambient weather-related con	nditions can affect the visibility of an object or objects. These conditions with landscape/seascape elements and the design elements of form,
Conditions in this view can be described as: Clear F	artly Cloudy Overcast Hazy
Conditions that may increase/decrease visibility could be descrease.	cribed as: The sky is undefined: no consistent color or cloud formations, just a hazy white blue.
7. Lighting Direction	, ,
Front lighting refers to a situation where the light source is coming	is coming from overhead or the side of the observer to a feature or
The relevant lighting condition can be described as:	☐ frontlit ☑ side-lit
8. Scenic or Recreational Value	
Designation as a scenic or recreational resource is an indication the resource. The characteristics of the resource that contribute to its visual impact on that resource.	nat there is broad public consensus on the value of that particular scenic or recreational value provide guidance in evaluating a project's
Would viewers consider this location a valued scenic or recreation	al resource? Yes No
How would the site be used for scenic or recreational enjoyment?	While this is a unique setting in the middle of a salt marsh, it is no easily accessible and there are no amenities.
ATLANTIC SHORES offshore wind	2 of 6

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ATLANTIC SHORES offshore wind

Visual Imp	pact Assessment	Personnel: Steve Breitz	ka	Visual Impact Assessment	Personnel: Steve Breitzka	
		KOP: BRT01		Visual impuot / tosossinont	KOP: <u>BRT01</u>	
Existing Co	onditions	Date: February 18,	2021	Proposed Conditions	Date: <u>February 18, 20</u>	021
1. In the existing	view rate the aesthetic quality/sensitivity of each resource on a scor	e of 1 to 9 (1 liability to 9 distinct)		1. With the proposed project in place, rate the aesthetic quality/sensitivity of e	ach resource on a score of 1 to 9 (1 liability to 9 dis	tinct)
Note: If an elemen be a whole numbe	t is not present in the view the score should be 4.5 of 9.0 (no impact), other score.	nerwise, rating should		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no importherwise, rating should be a whole number score.	act),	Score
			Score		Water Resources:	4.5
		Water Resources:	4.5		Landform:	5
		Landform:	5		Vegetation:	7
		Vegetation:	7		Land Use:	5
		Land Use:	5		User Activity:	5
		User Activity:	5			
	E	Existing Conditions #1 Total:	26.5	Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distit Note: Special Conditions score is taken directly from Existing Conditions #2 Total an		
2. Respond to each	th question below using a score of 0 to 3 (0 not present to 3 being h	igh density)		be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	4
S	pecial Condition A. Does this zone contain any scenic, c	ultural, or historic landmarks?	1			
	Special Condition B. Are there other aesthetic eleme	ents that add to this resource?	0		Total:	30.5
Respond to each	question below using a score of 0 to 3 (0 littered/polluted to 3 free o	f litter/pollution)				
	Special Condition C. Is this zone fr	ee from pollution and/or litter?	3	3. Comments:		
	Existing Conditions #2	2 Total (Sum 2A through 2C)	4	The proposed turbines are almost indiscernible along the horizon following the viewing (turbines are located, only visible by blades and mostly one blade. The turbine blades ta with angled branches.		
3. Comments:	Existing Conditions Grand Total	(Sum #1 Total and #2 Total)	30.5	min diagnos securiosos.		
split into two domin rather blend togeth	middle of the marshland with stands of scraggly shrubs amid low thin grass- ant color types: earth tone greens in the bottom half and pale white buse in the er as a mass. There is nothing that focuses the eye in this view as each com- me variation in height but appears to be plant material (trees) and residential	ne top half. The residences in the distance are apponent is a wash of color.				
	C SHORES offshore wind		3 of 6	ATLANTIC SHORES offshore wind		4 of 6
Vicual I	mnact Accoccmont	Personnel: Steve Breitz	ka	Visual Impact Assessment	Personnel: Steve Breitzka	

Visual Impact Assessment		rsonnel: Steve Breitzka
		KOP: <u>BRT01</u>
Proposed Conditions - Compatibility and Cor	ntrast Rating	Date: February 18, 2021
Note: If an element is not pres rating should be a whole num	ent in the view the score should be ber score.	ne a 0 (no impact), otherwise,
. Rate the compatibility of the proposed project on a scale of 1 to 3 (1	compatible to 3 not compatible)
Water Resources:	Land Use:	1
Landform: 1	User Activity:	1
Vegetation: 1	Total:	4
i. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 mi	inimal to 3 severe)	
Water Resources:	Land Use:	1
Landform: 1	User Activity:	1
Vegetation: 1	Total:	4
. Rate spatial dominance of the proposed project on a scale of 1 to 3	1 subordinate, 2 co-dominant,	3 dominant)
Water Resources:	Land Use:	1
Landform: 1	User Activity:	1
Vegetation: 1	Total:	4
7. Comments:		
The turbines, distinguished by blades only, have very little presence in this view		

	кор: <u>ВКТ01</u>	
roposed Conditions	Date: <u>February 18,</u>	
Visibility Threshold Level - Check the e selected KOP.	e box next to the description that most closely describes the visual prominence of the Pr	oject from
Visibility Rating	Description	
isibility level 1. Visible only after extended, lose viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	✓
'isibility level 2. Visible when scanning in the general direction of the study subject; therwise likely to be missed by casual bservers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
risibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual abservers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	
fisibility level 4. Plainly visible, so could of be missed by casual observers, but loes not strongly attract visual attention or forminate the view because of its apparent ize, for views in the general direction of he study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
fisibility level 5. Strongly attracts the visual ttention of views in the general direction of e study subject. Attention may be drawn y the strong contrast in form, line, color, or exture, luminance, or motion.	An objectiphenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to strong contrasts in form, line, color, and texture, bright light sources such as lighting and reflectional and moving objects associated with the study subject may contribute substantially for drawing viewer attention. The visual promisence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	
risibility level 6. Dominates the view ecause the study subject fills most of the isual field for views in its general direction. strong contrasts in form, line, color, texture, uminance, or motion may contribute to iew dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by furning one's head more than 45° from a direct view of the object. The object/phenomenon is he major focus of visual alterition, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, coirs, and tenture, tright light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject directs not object and to the contract of the study of the contract of the study subject directs not object with the contract of the study of the study of the study subject directs not object with the study of	





Visual Impact Assessment		Visual Impact Assessment	Personnel: Jocelyn Gavitt
•	- Josephy Cavitt		KOP: BT01 Island Beach St
Date: 2/25/21	Personnel: Jocelyn Gavitt	Principles of composition, continued:	Date: 2/25/21
andscape Similarity Zone: Undeveloped Beach	Key Observation Point Name/Number: <u>BT01 Island Beach</u>		
Key Observation Point (KOP) Familiarization	n	Numerous unrelated built elements occurring within a view can create visual cl adverse effect on scenic quality.	, , ,
andscape/seascape, viewer, and related factors to be considered	during evaluation of the KOP are outlined below.	Does this view contain elements that contribute to visual clutter?	es 🗹 No
	rporated into the scoring and comments on the VIA assessment form rvations and should be completed quickly, taking no more than 5 min		
General elements of formal visual analysis to be conside	red include:	Motion of existing and proposed elements in a view can attract viewer attention	l.
their spatial arrangement. Basic landscape components	of objects and voids in the landscape that can be categorized by nclude vegetation, landform, water, and sky. Some compositions, ad, or feature-oriented, are more vulnerable to modifications than	Does this view contain elements in motion that are likely to attract viewer a (If the answer is yes, Note these elements in rating form comments)	attention? ✓ Yes ☐ No
panoramic, canopied, or ephemeral landscapes.		Factors affecting visual impact:	
	or compositional elements that define the perceived visual character rs to the shape of an object that appears unified, often defined by	5. Duration of View	
edge, outline, and surrounding space. Line refers to the or texture, usually evident as the edges of shapes or ma	path the eye follows when perceiving abrupt changes in form, color, sses in the landscape/seascape. Texture, in this context, refers to to which form, line, color, and texture of a project are similar to or	Some views are seen as quick glimpses while driving along a roadway or hiki of time. Longer duration views of a project, especially from significant aesthet	
contrast with these same elements in the existing landso		The duration of this view is: ☐ Short Term/Fleeting ☑ Long-term	
 Spatial Dominance: The degree to which an object or la and thus dominates seascape composition from a specific 	ndscape/seascape element occupies space in a landscape/seascap ic viewpoint.	The frequency of this view is: ☐ Repeated ☑ Occasional	
	n relation to its surroundings can define the compatibility of its scale is likely to vary depending on the distance from which it is seen and		
Principles of composition to be considered include:		Conditions in this view can be described as: 🗹 Clear 🔲 Partly Cloud	y Overcast Hazy
1. Focal Point		Conditions that may increase/decrease visibility could be described as:	Nore moisture in the atmosphere would likely decrease isibility
physical characteristics. Focal points often contrast with tend to draw a viewer's attention. Examples include pro- lighthouse. If possible, a proposed project should not be in the landscape/seascape.	res stand out and are particularly noticeable as a result of their their surroundings in color, form, scale, or texture, and therefore minent trees, mountains, or cultural features, such as a distinctive sited so as to obscure or compete with important existing focal point	7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming toward the	e observer from behind a feature or elements in a scene. d the observer and falling directly upon the area being rom overhead or the side of the observer to a feature or
Does this view contain a focal point?			
If yes, briefly identify/describe: The vanishing point of the	e beach lines and the horizon line.	The relevant lighting condition can be described as: 🗹 backlit 🔲 front	lit side-lit
by displaying traditional or logical patterns of land use/d this natural order may detract from scenic quality. Wher are maintained through the repetition of the forms, lines environment.	r determined by natural processes. Cultural landscapes exhibit order evelopment. Elements in the landscape that are inconsistent with a new project is introduced to the landscape, intactness and order colors, and textures existing in the surrounding built or natural	8. Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that there is resource. The characteristics of the resource that contribute to its scenic or revisual impact on that resource.	
Does this view contain a natural order? Yes I fyes, how does the natural order affect the view?	□ No	Would viewers consider this location a valued scenic or recreational resource	? ✓ Yes ☐ No
There is a natural layering of shoreline, beach, water and open	sky.		e remote beach front destination for a large population of idents and visitors.
ATLANTIC SHORES offshore wind		1 of 6 ATLANTIC SHORES offshore wind	2 0

by usplaying factions of logical patients or latitudseroeveropment. Elements in the landscape that are this natural order may detract from scenic quality. When a new project is introduced to the landscape inta are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding b environment.	actness and order	Designation as a scenic or recreational resource is an indication that there is broad p resource. The characteristics of the resource that contribute to its scenic or recreation visual impact on that resource.		
Does this view contain a natural order? ☑ Yes ☐ No If yes, how does the natural order affect the view?		Would viewers consider this location a valued scenic or recreational resource? 🗹	Yes No	
There is a natural layering of shoreline, beach, water and open sky.		How would the site be used for scenic or recreational enjoyment? This is more remot nearby residents a	e beach front destination for a large population	on of
ATLANTIC SHORES offshore wind	1 of 6	ATLANTIC SHORES offshore wind		2 of 6
Visual Impact Assessment Personnel: Jocel		Visual Impact Assessment	Personnel: <u>Jocelyn Gavi</u>	
KOP: <u>BT01</u>	Island Beach St	•	KOP: BT01 Island	Beach Sta
Existing Conditions Date: 2/25/2	<u>!1</u>	Proposed Conditions	Date: 2/25/21	
1. In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1 liability to 9 distinct))	With the proposed project in place, rate the aesthetic quality/sensitivity of each resour	ce on a score of 1 to 9 (1 liability to 9 (distinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Score
	Score	date wise, faling should be a whole humber score.	Water Resources:	4
Water Resource	es: 9		Landform:	5
Landfor	m: 6		Vegetation:	5
Vegetation	on: 6		Land Use:	6
Land Us	se: 7		User Activity:	4
User Activi	ity: 8			
Existing Conditions #1 Tot	al: 36	2. Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct)		
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high density)		Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	5
Special Condition A. Does this zone contain any scenic, cultural, or historic landmark	s? 2			
Special Condition B. Are there other aesthetic elements that add to this resource	e? 2		Total:	29
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/pollution)				29
Special Condition C. Is this zone free from pollution and/or little	er? 2	3. Comments:		
Existing Conditions #2 Total (Sum 2A through 2	(C) 6	The viewer can see the distant windmill field along the horizon, with attention focused in the areas w another due to perspective issues. This increases the visibility in places. While these are at a great impact due to the large quantity of structures. Viewers will take notice of these structures.		
Existing Conditions Grand Total (Sum #1 Total and #2 Total 3. Comments:	al) 42			
This is a more remotely accessed beach front free from visual clutter. This is a pristine setting of uninterrupted beach line, and open	water.			



Personnel: Jocelyn Gavitt **Visual Impact Assessment** KOP: BT01 Island Beach St Date: 2/25/21 **Proposed Conditions - Compatibility and Contrast Rating** Note: If an element is not present in the view the score should be a 0 (no impact), otherwise, rating should be a whole number score. 4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible) Land Use: Water Resources: 2 3 User Activity: Landform: 2 2 Vegetation: Total: 11 5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) $\,$ Water Resources: 2 Land Use: Landform: 2 User Activity: 2 Vegetation: 2 Total: 10 6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominant) Water Resources: Land Use: Landform: User Activity: 2 Vegetation: Total: 9 7. Comments: This proposed field of turbines are the only structures in the view and become more of a focus once they have been fully noticed. They stretch across a large

ATLANTIC SHORES offshore wind

potion of the horizon, though they are quite distant in nature.

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Visual	Imnac	t Ass	essmen

Personnel: Jocelyn Gavitt

KOP: BT01 Island Beach St

Date: 2/25/21

Proposed Conditions

8. Visibility Threshold Level - Check the box next to the description that most closely describes the visual prominence of the Project from the selected KOP,

Visibility Rating	Description	
Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more loosely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	√
Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape-leaencape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements as strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to strong contrasts in form, line, object, and lexture, bright light sources such as lighting and reflections and moving objects associated with the study subject may contribute substantially ordwing viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	
Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance.	An object/phenoment with strong visual contrasts that is so large that I occupies most of the visual right, and view of II cannot to a model occept by turing one's had more than 65° from a direct view of the object. The object/phenomenon is the major focus of visual attention, and its large apparent size is a major factor in 15 view dominence, in addition to 352, contrasts in form, line, color, and texture, bright light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject defracts noticeably from views of other landscape/seascape elements.	
	· · · · · · · · · · · · · · · · · · ·	

9. Comments:

The proposed conditions are very noticeable but not completely dominant.

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Visual Impact Assessment	
Date: 23 February 2021	Personnel: KAC
Landscape Similarity Zone: <u>Undeveloped Beach</u>	Key Observation Point Name/Number: <u>BT01 Isld Beach SP</u>
Key Observation Point (KOP) Familiarization	n
Landscape/seascape, viewer, and related factors to be considered	d during evaluation of the KOP are outlined below.
	prorated into the scoring and comments on the VIA assessment form provations and should be completed quickly, taking no more than 5 minutes)
General elements of formal visual analysis to be conside	red include:
their spatial arrangement. Basic landscape components	of objects and voids in the landscape that can be categorized by include vegetation, landform, water, and sky. Some compositions, ad, or feature-oriented, are more vulnerable to modifications than
of a landscape/seascape, as well as a project. Form refe edge, outline, and surrounding space. Line refers to the or texture, usually evident as the edges of shapes or ma	or compositional elements that define the perceived visual character is to the shape of an object that appears unified, often defined by abath the eye follows when perceiving abrupt changes in form, color, sses in the landscape/seascape. Texture, in this context, refers to to which form, line, color, and texture of a project are similar to or ape/seascape is a primary determinant of visual impact.
 Spatial Dominance: The degree to which an object or la and thus dominates seascape composition from a specifi 	indscape/seascape element occupies space in a landscape/seascape ic viewpoint.
	in relation to its surroundings can define the compatibility of its scale is likely to vary depending on the distance from which it is seen and
Principles of composition to be considered include:	
1. Focal Point	
physical characteristics. Focal points often contrast with tend to draw a viewer's attention. Examples include pro	res stand out and are particularly noticeable as a result of their their surroundings in color, form, scale, or texture, and therefore minent trees, mountains, or cultural features, such as a distinctive sited so as to obscure or compete with important existing focal points

Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.

Beach, vegetated dune, ocean, and horizon; this is a sweeping landscape with a strong perspective center. The eye moves over the light colored,

open sand beach to the rolling surf to the focal point and then to the lush green of the vegetated, undulating dunes before landing on the horizon.

Visual Impact Assessment	Personnel: KAC
	KOP: BT01 Isld Beach SP
Principles of composition, continued:	Date: 23 February 2021
 Visual Clutter Numerous unrelated built elements occurring within a view can create visual clutter adverse effect on scenic quality. 	r (disrupting the natural order), which generally has an
Does this view contain elements that contribute to visual clutter? $\ \square$ Yes	✓ No
If yes, how does the visual clutter affect the view? N/A	
4. Movement	
Motion of existing and proposed elements in a view can attract viewer attention.	
Does this view contain elements in motion that are likely to attract viewer atten	ition? ☑ Yes ☐ No
(If the answer is yes, Note these elements in rating form comments)	
Factors affecting visual impact:	
5. Duration of View	
Some views are seen as quick glimpses while driving along a roadway or hiking a of time. Longer duration views of a project, especially from significant aesthetic re:	
The duration of this view is: $\ \ \ \ \ \ \ \ \ \ \ \ \ $	
The frequency of this view is: Repeated Occasional	
6. Atmospheric Conditions Clouds, precipitation, haze, and other ambient weather-related conditions can affer can greatly impact the visibility and contrast of project components with landscape line, color, texture, and scale.	
Conditions in this view can be described as: Clear Partly Cloudy	Overcast 🗹 Hazy
Conditions that may increase/decrease visibility could be described as: A clear	arer sky will allow greater visual definition to the turbines.
7. Lighting Direction	
Backlighting refers to a viewing situation in which sunlight is coming toward the ob Front lighting refers to a situation where the light source is coming from behind the viewed. Side lighting refers to a viewing situation in which sunlight is coming from elements in a scene. Lighting direction can have a significant effect on the visibility	e observer and falling directly upon the area being overhead or the side of the observer to a feature or
The relevant lighting condition can be described as: backlit frontlit frontlit	□ side-lit
8. Scenic or Recreational Value	
Designation as a scenic or recreational resource is an indication that there is broa resource. The characteristics of the resource that contribute to its scenic or recrea visual impact on that resource.	
Would viewers consider this location a valued scenic or recreational resource?	I Yes □ No
How would the site be used for scenic or recreational enjoyment? Island Beach St	iate Park

2. Order

ATLANTIC SHORES

Visual Impact As	ssessment	Personnel: KAC		Visual Impact Assessment	Personnel: KAC	
		KOP: BT01 Isld Be	each SP	Visual impact Assessment	KOP: BT01 Isld Beach	h SP
Existing Condition	ns	Date: 23 February	2021	Proposed Conditions	Date: 23 February 202	21
1. In the existing view rate th	ne aesthetic quality/sensitivity of each resource on a s	core of 1 to 9 (1 liability to 9 distinct)		With the proposed project in place, rate the aesthetic quality/sensitivity	of each resource on a score of 1 to 9 (1 liability to 9 disti	inct)
Note: If an element is not pres be a whole number score.	sent in the view the score should be 4.5 of 9.0 (no impact),	otherwise, rating should		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no otherwise, rating should be a whole number score.) impact),	Score
			Score		Water Resources:	6
		Water Resources:	7		Landform:	7
		Landform:	7		Vegetation:	7
		Vegetation:	7		Land Use:	7
		Land Use:	7		User Activity:	7
		User Activity:	7		5551718umsj.	,
		Existing Conditions #1 Total:	35	Collectively rate special conditions on a score of 0 to 9 (0 liability to 9)	distinct)	
2. Respond to each question	n below using a score of 0 to 3 (0 not present to 3 being	g high density)		Note: Special Conditions score is taken directly from Existing Conditions #2 To be adjusted up or down based upon the Proposed Conditions view.	special Conditions:	4
Special Co	ondition A. Does this zone contain any scenic	c, cultural, or historic landmarks?	1			4
Spec	cial Condition B. Are there other aesthetic ele	ments that add to this resource?	2		Total:	38
Respond to each question b	elow using a score of 0 to 3 (0 littered/polluted to 3 fre	e of litter/pollution)				
	Special Condition C. Is this zone	e free from pollution and/or litter?	1	3. Comments:		
	Existing Conditions	#2 Total (Sum 2A through 2C)	4	The addition of the wind turbines on the horizon does not immediately attract the v observing the greater view to the sand, surf, dune vegetation and then horizon, the	e eye moves to the center of the view and fixes on the light gray,	fine textured
3. Comments:	Existing Conditions Grand To	tal (Sum #1 Total and #2 Total)	39	turbine silhouettes on the horizon. Upon focusing on the darker mass of ordered; left and right of the center mass also become more visible. The light color and fine potential impacts to visual quality at this viewing distance.		
Cultural Historic: Island Beach	h State Park					
Aesthetic: Wide open, light colo	ored sand beach with rolling topography and vegetated dunes	S.				
Litter: Beach visitor litter.						
limited visibility of man-made el privacy. The light colored, fine	g beach is well balanced in offering views to the ocean as well lements, except for the few on the far horizon, and the topolog sand beach is the backdrop to the blue-green ocean that dee tion is accentuated in the right side of the view. This seascape	gical interest of the dunes inspires a sense of remo pens in color as it reaches the visual perspective I	oteness and local spot, in the			
ATLANTIC SHOP			3 of 6	ATLANTIC SHORES offshore wind		4 of 6
Vicual Impa	ct Accoccmont	Personnel: KAC		Visual Impact Assessment	Personnel: <i>KAC</i>	

Visual Impact Assessm	nent	Pe	rsonnel: KAC
			KOP: BT01 Isld Beach Si
Proposed Conditions - Compatibili	ity and Cont	rast Rating	Date: 23 February 2021
	element is not prese d be a whole numbe	nt in the view the score should ber score.	e a 0 (no impact), otherwise,
Rate the compatibility of the proposed project on a	scale of 1 to 3 (1 c	ompatible to 3 not compatible)
Water Resources:	1.5	Land Use:	1
Landform:	1	User Activity:	1
Vegetation:	1	Total:	5.5
5. Rate scale contrast of the proposed project on a sc	ale of 1 to 3 (1 min	imal to 3 severe)	
Water Resources:	1.5	Land Use:	1
Landform:	1	User Activity:	1
Vegetation:	1	Total:	5.5
6. Rate spatial dominance of the proposed project on	a scale of 1 to 3 (1	subordinate, 2 co-dominant, 3	3 dominant)
Water Resources:	1.5	Land Use:	1
Landform:	1	User Activity:	1
Vegetation:	1	Total:	5.5
7. Comments:			
Compatibility: The rotor blades are not readily apparent on	ha harizan at this sis	using distance	
		· ·	
Scale: The turbines are not easily recognizable on the horiz	zon at 30.25-miles to	the nearest turbine.	

Visibility Rating	Description	
Visibility Rating Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	V
Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	
Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition is foring contrasts in form, line, color, and texture, bright light sources such as lighting and reflections! and moving objects associated with the study subject may contribute substantially of orwaning levers attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	
Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contracts in form, line, color, lexture, luminance, or motion may contribute to view dominance.	An object/phenomenon with sirong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by turning one's head more than 45' from a direct view of the object. The object/phenomenon is fem lemplo rocus of visual altention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in from, line, color, and terrum, triplit light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.	

Vigual Impact Accoccment		Visual Impact Assessment	Personnel: KV
Visual Impact Assessment		visual impact / issessment	KOP: BT01-Island Beach SP
Date: <u>02-22-2021</u> Personnel: <u>KV</u>		Principles of composition, continued:	Date: 02-22-2021
Landscape Similarity Zone: <u>Undeveloped Beach</u> Key Observation Point Name/Number: <u>BT01-Island Beach</u>	each SP	3. Visual Clutter	Dutc. oz zz zoz,
Key Observation Point (KOP) Familiarization		Numerous unrelated built elements occurring within a view can create adverse effect on scenic quality.	
Landscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.		Does this view contain elements that contribute to visual clutter?	Yes No
The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment (proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5	form	If yes, how does the visual clutter affect the view?	
(Movement Motion of existing and proposed elements in a view con attract viewer.	attention
General elements of formal visual analysis to be considered include:		Motion of existing and proposed elements in a view can attract viewer:	
 Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than 	, []	Does this view contain elements in motion that are likely to attract (If the answer is yes, Note these elements in rating form commen	
panoramic, canopied, or ephemeral landscapes.		Factors affecting visual impact:	
 Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual chara of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by 		· ·	
edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, col-	or,	Duration of ViewSome views are seen as quick glimpses while driving along a roadwa	v or hiking a trail, while others are seen for a more prolonged period
or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to o		of time. Longer duration views of a project, especially from significant	aesthetic resources, have the greatest potential for visual impact.
contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.		The duration of this view is: Short Term/Fleeting Long-	term
 Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seas and thus dominates seascape composition from a specific viewpoint. 	scape	The frequency of this view is: Repeated Occasional	
 Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its so 		6. Atmospheric Conditions	
within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen a other contextual factors.	and	Clouds, precipitation, haze, and other ambient weather-related conditions can greatly impact the visibility and contrast of project components willine, color, texture, and scale.	
Principles of composition to be considered include:		Conditions in this view can be described as: Clear Partle	y Cloudy Overcast Hazy
1. Focal Point		Conditions that may increase/decrease visibility could be describ	
Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their		7. Lighting Direction	will decrease visibility
physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent frees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal p in the landscape/seascape.	e	Backlighting refers to a viewing situation in which sunlight is coming to Front lighting refers to a situation where the light source is coming fro viewed. Side lighting refers to a viewing situation in which sunlight is elements in a scene. Lighting direction can have a significant effect or	m behind the observer and falling directly upon the area being coming from overhead or the side of the observer to a feature or
Does this view contain a focal point? ☑ Yes ☐ No		cionena in a socite. Eigning direction can have a significant effect of	The visibility and contrast of landscape and project cicinents.
If yes, briefly identify/describe: at the vanishing point where the green vegetation meets the blue sea and people congregate in the view	v III	The relevant lighting condition can be described as:	☐ frontlit ☐ side-lit
2. Order			
Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit o by displaying traditional or logical patterns of land useddevelopment. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and ord are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.	n	8. Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that I resource. The characteristics of the resource that contribute to its sce- visual impact on that resource.	there is broad public consensus on the value of that particular nic or recreational value provide guidance in evaluating a project's
Does this view contain a natural order? ☑ Yes ☐ No If yes, how does the natural order affect the view?		Would viewers consider this location a valued scenic or recreational re	esource? ☑ Yes ☐ No
sea, beach, vegetation and sky and wispy clouds create lines in the view that draw the viewers eye to the distance.			nis state park is used for a variety of beach activity including swimming, ihing, sunbathing, etc.
ATLANTIC SHORES offshore wind	1 of 6	ATLANTIC SHORES offshore wind	2

Visual Impact Assessment	Personnel: KV	
'	KOP: BT01-Island E	Beach SP
Existing Conditions	Date: 02-22-2021	
In the existing view rate the aesthetic quality/sensitivity of each resource on a sco	ore of 1 to 9 (1 liability to 9 distinct)	
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), of be a whole number score.		
		Score
	Water Resources:	7
	Landform:	8
	Vegetation:	7
	Land Use:	7
	User Activity:	7
ı	Existing Conditions #1 Total:	36
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being h	high density)	
Special Condition A. Does this zone contain any scenic, or	cultural, or historic landmarks?	3
Special Condition B. Are there other aesthetic elements	ents that add to this resource?	3
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free $\bar{\theta}$	of litter/pollution)	
Special Condition C. Is this zone f	ree from pollution and/or litter?	3
Existing Conditions #	2 Total (Sum 2A through 2C)	9
Existing Conditions Grand Tota 3. Comments:	I (Sum #1 Total and #2 Total)	45
Movement altracting viewer attention: ocean waves, beach goers		
This view captures a natural beach settling with (panning left to right) open ocean, sandy shorel a natural landscape a heavy human use is apparent due to the multiple groups of beach users, parked in the distance near the waterline. Water resources captured in this view appear particu in the green hue of the dune vegetation. While the ocean at this location reads as expansive a Landdorm is representative of the long linear beaches in this region, but a glimpse over the intel shoreline adds visual interest. Vegetation takes the form of a significant vegetated dunescape developed region. As such land use in the scene is primarily preservation in nature. User activit the beach vehicle access), educational activity is also a component of this State Park which ms school groups, about shoreline ecosystems, vegetation, and historical lifestyles in the region.	, numerous sets of vehicle tire tracks in the sand, latdy clear. Intensity and value of the water's blue stretch ships and/or navigation structures dot the t to a portion of Barnegat Island jutting beyond the which has been maintained to a level uncommon by tends toward low impact beach recreation activ	and a Jeep hue is mimicked horizon. e middle ground in this typically rities (save for

How would the site be used for scenic or recreational enjoyment?	This state park is used for a variety of beach activity includin fishing, sunbathing, etc.	g swimming,
ATLANTIC SHORES offshore wind		2 of 6
Visual Impact Assessment	Personnel: KV	
·	KOP: BT01-Islan	nd Beach SP
Proposed Conditions	Date: <u>02-22-202</u>	1
1. With the proposed project in place, rate the aesthetic quality/sensitivi	ty of each resource on a score of 1 to 9 (1 liability to	9 distinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (i otherwise, rating should be a whole number score.	no impact),	Score
	Water Resources:	6
	Landform:	8
	Vegetation:	7
	Land Use:	7
	User Activity:	6
Collectively rate special conditions on a score of 0 to 9 (0 liability to Note: Special Conditions score is taken directly from Existing Conditions #2 to be adjusted up or down based upon the Proposed Conditions view.		8
	Total:	42
3. Comments:		
With the proposed project in place the WTG array sits lightly on the horizon due turbines the extent of the array raises the potential for visibility. The appearance on the horizon makes visibility of individual turbines more difficult to distinguish, and visibility is increased with the appearance of more dense value coloration for become more comparatively average in the area rather than maintaining a distinineation of the search of the properties of the p	of a scattered WTG arrangement at the edge of the array, More central positioning in the array find turbines sliting high m the stacked massing. Water resources retain a high scc c quality. Landform, however, with the unique nature in wh highly effected by the turbines. WTGs are likely to draw view es distant enough, that viewers attention will not be so stro lique within this region and will likely capture viewer attention tone from the WTGs is unlikely to find substantial effects. U	where turbines sit low her on the horizon, enic quality, but may ich the distant wer attention from the ngly held by the on despite the iser Activity at this

Visual Impact Assessment	Personnel: KV	Visual Impact Assess	
•	KOP: <u>BT01-Island Beach SP</u>		KOP: <u>BT01-Island Beach SP</u>
Proposed Conditions - Compatibility and Contrast	Date: <u>02-22-2021</u>	Proposed Conditions	Date: <u>02-22-2021</u>
Proposed Conditions - Compatibility and Contrast	Raing	ļ '	he box next to the description that most closely describes the visual prominence of the Project from
Note: If an element is not present in th rating should be a whole number score	ne view the score should be a 0 (no impact), otherwise, e.	the selected KOP.	, , , , , , , , , , , , , , , , , , , ,
4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatibility of the proposed project on a scale of 1 to 3 (1 compatibility of the proposed project on a scale of 1 to 3 (1 compatibility of the proposed project on a scale of 1 to 3 (1 compatibility of the proposed project on a scale of 1 to 3 (1 compatibility of the proposed project on a scale of 1 to 3 (1 compatibility of the proposed project on a scale of 1 to 3 (1 compatibility of the proposed project on a scale of 1 to 3 (1 compatibility of the proposed project on a scale of 1 to 3 (1 compatibility of the proposed project on a scale of 1 to 3 (1 compatibility of the proposed project on a scale of 1 to 3 (1 compatibility of the proposed project on a scale of 1 to 3 (1 compatibility of the proposed project on a scale of 1 to 3 (1 compatibility of the proposed project on a scale of 1 to 3 (1 compatibility of 1 to 3 compatibility	tible to 3 not compatible)	Visibility Rating	Description
Water Resources: 3	Land Use: 2	Visibility level 1. Visible only after extended close viewing; otherwise invisible.	, An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.
Landform: 3	User Activity: 2	Visibility level 2. Visible when scanning in the general direction of the study subject;	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could
Vegetation: 3	Total: 13	otherwise likely to be missed by casual observers.	sometimes be noticed by casual observers; however, most people would not notice it without some active looking.
5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to	o 3 severe)	Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual	
Water Resources: 2	Land Use: 1	observers.	· · · · · · · · · · · · · · · · · · ·
Landform: 1	User Activity: 1	Visibility level 4. Plainly visible, so could not be missed by casual observers, but	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual
Vegetation: 1	Total: 6	does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	attention and insufficient size to occupy most of an observer's visual field.
6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subor	rdinate, 2 co-dominant, 3 dominant)		
Water Resources: 2	Land Use: 1	Visibility level 5. Strongly attracts the visual attention of views in the general direction o the study subject. Attention may be drawn	
Landform: 2	User Activity: 1	by the strong contrast in form, line, color, or texture, luminance, or motion.	
Vegetation:	Total: 7		
7. Comments:		Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction Strong contrasts in form, line, color, texture luminance, or motion may contribute to view dominance.	
The WTG at this location are not compatible with the water resources, landform, or vegother elements on the horizon, the land use and user activity may be somewhat compatible.			
Scale contrast of the WTG at such a distance from this location is consistent with a mod green vegetation, tall dunes landform, and high intensity recreation land use and user an			
WTG become spatially co-dominant with water resources and landform, but are subordi	nate to the bright vegetation and the highly recreational land use and	9. Comments:	
user activity.			izon under these atmospheric conditions, however they are distant enough on the horizon that they will compete will ercast conditions visibility may be decreased.

ATLANTIC SHORES
offshore wind

Pate: March 05, 2021	Personnel: Steve Breitzka
andscape Similarity Zone: <u>Undeveloped Beach</u>	Key Observation Point Name/Number: <u>BT01</u>
Key Observation Point (KOP) Familiarization	
andscape/seascape, viewer, and related factors to be considered du	uring evaluation of the KOP are outlined below.
the effect of the proposed Project on these factors should be incorporoposed conditions). (This form is intended to record initial observa	rated into the scoring and comments on the VIA assessment form lions and should be completed quickly, taking no more than 5 minutes)
General elements of formal visual analysis to be considered	include:
	bbjects and voids in the landscape that can be categorized by ude vegetation, landform, water, and sky. Some compositions, or feature-oriented, are more vulnerable to modifications than
of a landscape/seascape, as well as a project. Form refers t edge, outline, and surrounding space. Line refers to the path or texture, usually evident as the edges of shapes or masse	compositional elements that define the perceived visual character of the shape of an object that appears unified, often defined by the eye follows when perceiving abrupt changes in form, color, in the landscape/seascape. Texture, in this context, refers to which form, line, color, and texture of a project are similar to or /seascape is a primary determinant of visual impact.
 Spatial Dominance: The degree to which an object or lands and thus dominates seascape composition from a specific v 	scape/seascape element occupies space in a landscape/seascape jewpoint.
	elation to its surroundings can define the compatibility of its scale kely to vary depending on the distance from which it is seen and
Principles of composition to be considered include:	
physical characteristics. Focal points often contrast with the tend to draw a viewer's attention. Examples include promin	sland out and are particularly noticeable as a result of their ir surroundings in color, form, scale, or texture, and therefore ent trees, mountains, or cultural features, such as a distinctive de so as to obscure or compete thit important existing focal points
in the landscape/seascape.	ed so as to obscure or compete with important existing local points
Does this view contain a focal point? Yes No	
If yes, briefly identify/describe:	
by displaying traditional or logical patterns of land use/deve this natural order may detract from scenic quality. When a r	etermined by natural processes. Cultural landscapes exhibit order lopment. Elements in the landscape that are inconsistent with new project is introduced to the landscape, intactness and order lors, and textures existing in the surrounding built or natural
Does this view contain a natural order? Yes If yes, how does the natural order affect the view?	No
	ndless water, waves crashing at the shore, wide sandy beach, and grass

ATLANTIC SHORES offshore wind

Visual Impact Assessment	Personnel: Steve Breitzka
•	KOP: <u>BT01</u>
Principles of composition, continued:	Date: March 05, 2021
3. Visual Clutter	
adverse effect on scenic quality.	ate visual clutter (disrupting the natural order), which generally has an
Does this view contain elements that contribute to visual clutter	? ☐ Yes ☑ No
If yes, how does the visual clutter affect the view?	
4. Movement	
Motion of existing and proposed elements in a view can attract view	er attention.
Does this view contain elements in motion that are likely to attra	act viewer attention? 🗹 Yes 🗆 No
(If the answer is yes, Note these elements in rating form comm	ents)
Factors affecting visual impact:	
5. Duration of View	
	way or hiking a trail, while others are seen for a more prolonged period ant aesthetic resources, have the greatest potential for visual impact.
The duration of this view is: $\ensuremath{\square}$ Short Term/Fleeting $\ensuremath{\square}$ Lor	ng-term
The frequency of this view is: Repeated Occasional	1
	uditions can affect the visibility of an object or objects. These conditions with landscape/seascape elements and the design elements of form,
Conditions in this view can be described as: ☐ Clear ☑ P	artly Cloudy Dercast Hazy
Conditions that may increase/decrease visibility could be desc	ribed as: The cloud cover is like a thin white veil across the sky.
7. Lighting Direction	
Front lighting refers to a situation where the light source is coming	is coming from overhead or the side of the observer to a feature or
The relevant lighting condition can be described as:	☐ frontlit ☑ side-lit
8. Scenic or Recreational Value	
Designation as a scenic or recreational resource is an indication th resource. The characteristics of the resource that contribute to its serious alimpact on that resource.	at there is broad public consensus on the value of that particular scenic or recreational value provide guidance in evaluating a project's
Would viewers consider this location a valued scenic or recreation:	al resource? 🗹 Yes 🔲 No
How would the site be used for scenic or recreational enjoyment?	This is a wide open sandy beach free of any visible development. It feels remote.
ATT ANTIC SUCCESS	

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Visual Impact Assessment Per	rsonnel: Steve Breitzka	1	Visual Impact Assessment	Personnel: Steve Breitzka	
'	KOP: <u>BT01</u>		Visual impact /155c55ment	KOP: <u>BT01</u>	
Existing Conditions	Date: March 05, 202	1	Proposed Conditions	Date: March 05, 2021	
In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1 liabil).	ility to 9 distinct)		1. With the proposed project in place, rate the aesthetic quality/sensitivity of each re	source on a score of 1 to 9 (1 liability to 9 dist	inct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating shou be a whole number score.	uld		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Score
		Score		Water Resources:	4
Wa	ater Resources:	9		Landform:	6
	Landform:	8		Vegetation:	6
	Vegetation:	8		Land Use:	5
	Land Use:	9		User Activity:	5
	User Activity:	9			
Existing Condi	itions #1 Total:	43	Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct)		
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high density)			Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	3
Special Condition A. Does this zone contain any scenic, cultural, or histo	oric landmarks?	1			
Special Condition B. Are there other aesthetic elements that add to	this resource?	1		Total:	29
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/pollution)					
Special Condition C. Is this zone free from pollution	ion and/or litter?	3	3. Comments:		
Existing Conditions #2 Total (Sum 2	2A through 2C)	5	The proposed turbines, though distant and camouflaged in the haze, become the only visible s across the water and into the dune landscape. The low grass covered dunes are the primary if the scene. The stacking and spacing of the turbines makes some rows appear dense while oil	ocus in the view until the turbines are added across	
Existing Conditions Grand Total (Sum #1 Total 3. Comments:	al and #2 Total)	48	un pourte. The stateming and specing of the talence manage during the suppose source without	and the sparse on the eages.	
This view portrays a classic beach scene: low waves cresting at the shore, open sandy beach, and grass covered d view are muled but all in a warm earth tone range. The sky is a hazy white at the horizon, fading through pale blue wind-swept clouds extend across the entire sky.					
ATLANTIC SHORES offshore wind		3 of 6	ATLANTIC SHORES offshore wind		4 of 6
Visual Impact Assessment Per	rsonnel: <u>Steve Breitzka</u> KOP: <u>BT01</u>	j	Visual Impact Assessment	Personnel: <u>Steve Breitzka</u> KOP: <u>B701</u>	

Visual Impact Assessr	ment Pers	sonnel: Steve Breitzka	Visual Impact Assessi	ment Personnel: <u>Steve Breitzka</u>	
		KOP: <u>BT01</u>		KOP: <i>BT01</i>	
Proposed Conditions - Compatib	ility and Contrast Rating	Date: March 05, 2021	Proposed Conditions	Date: <u>March 05, 2021</u>	-
	n element is not present in the view the score should be a ould be a whole number score.	a O (no impact), otherwise,	Visibility Threshold Level - Check th the selected KOP.	e box next to the description that most closely describes the visual prominence of the Project from	
Rate the compatibility of the proposed project on	a scale of 1 to 3 (1 compatible to 3 not compatible)		Visibility Rating	Description	
Water Resources:	2 Land Use:	2	Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
Landform: Vegetation:	2 User Activity: 2 Total:	10	Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
5. Rate scale contrast of the proposed project on a			Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most causal observers, but without sufficient size or contrast to compete with major landscape/ seascage elements.	
Water Resources: Landform: Vegetation:	2 Land Use: 2 User Activity: 2 Total:	2 2 10	Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/ohenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
Kate spatial dominance of the proposed project of Water Resources: Landform: Vegetation:	na a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 d Land Use: User Activity: Total:	2 2 10	Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An objectlyhenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to strong contrasts in form, line, color, and texture, bright light sources such as lighting and reflections! and moving objects associated with the study subject may contribute substantially of warring viewer affection. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	
7. Comments: This beach scene is void of any development until the turk	bines populate the horizon. They are subdued given distans weve action will detract any motion created in the distance.		Visibilly level 6. Dominates the view because the budy subject life most of the visual field for views in its general direction. Strong contrasts in firm, line, color teature, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that if occupies most of the visual field, and views of it anonal he envoide outcept by thring one's head more than 45° from a direct view of the object. The object/phenomenon is he major focus of visual altention, and its large apparers laste is a major factor in its view dominisone. In addition to see, contrasts in form, line, color, and leature, bright light sources and moving objects associated with the study subject may contribute substantially for damy dever altention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.	
			9. Comments: The turbines do not dominate the view but '	they do steal attention away from the natural beach features.	



/isual Impact Assessment	Visual Impact Assessment Personnel: <u>Jocelyn Gavitt</u>	
ate: 08/24/22 Personnel: Jocelyn Gavitt	KOP: <u>EMC01 Tuckahoe V</u>	⁄/ // ₩
· · · · · · · · · · · · · · · · · · ·	Principles of composition, continued: Date: 08/24/22	
andscape Similarity Zone: Residents/Tourists Key Observation Point Name/Number: EMC01 Tuckahoe WM (Cey Observation Point (KOP) Familiarization	 Visual Clutter Numerous unrelated built elements occurring within a view can create visual clutter (disrupting the natural order), which generally has a adverse effect on scenic quality. 	n
andscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.	Does this view contain elements that contribute to visual clutter? Yes No	
he effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes)	If yes, how does the visual clutter affect the view? 4. Movement	
General elements of formal visual analysis to be considered include:	Motion of existing and proposed elements in a view can attract viewer attention.	
Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions, especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than	Does this view contain elements in motion that are likely to attract viewer attention? Yes No (If the answer is yes, Note these elements in rating form comments)	
panoramic, canopied, or ephemeral landscapes. • Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character of a landscape/seascape, as well as a project. From refers to the shape of an object that appears unified, often defined by edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.	Factors affecting visual impact: 5. Duration of View Some views are seen as quick glimpses while driving along a roadway or hiking a trail, while others are seen for a more prolonged per of time. Longer duration views of a project, especially from significant aesthetic resources, have the greatest potential for visual impact The duration of this view is: \(\frac{1}{2} \) Short Term/Fleeting \(\Boxed{\textsuperight} \) Long-term	iod
Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint.	The frequency of this view is: Repeated Occasional	
 Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors. 	6. Atmospheric Conditions Clouds, precipitation, haze, and other ambient weather-related conditions can affect the visibility of an object or objects. These conditions can greatly impact the visibility and contrast of project components with landscape/seascape elements and the design elements of fore line, color, lecture, and scale.	
Principles of composition to be considered include:	Conditions in this view can be described as: ☑ Clear ☐ Partly Cloudy ☐ Overcast ☐ Hazy	
1. Focal Point	Conditions that may increase/decrease visibility could be described as: Shown are already the clearest conditions.	
Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape. Does this view contain a focal point? Yes No	7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming toward the observer from behind a feature or elements in a scene Front lighting refers to a situation where the light source is coming from behind the observer and falling directly upon the area being viewed. Slide lighting refers to a viewing situation in which sunlight is coming from overhead or the side of the observer to a feature elements in a scene. Lighting direction can have a significant effect on the visibility and contrast of landscape and project elements.	
If yes, briefly identify/describe:	The relevant lighting condition can be described as: abacklit frontlit side-lit	
2. Order Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.	8. Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that there is broad public consensus on the value of that particular resource. The characteristics of the resource that contribute to its scenic or recreational value provide guidance in evaluating a project visual impact on that resource.	'S
Does this view contain a natural order? ☑ Yes ☐ No If yes, how does the natural order affect the view?	Would viewers consider this location a valued scenic or recreational resource? 🗹 Yes 🗆 No	
There is a basic layering of tall vegetation in the foreground, open low vegetation in the mid-ground punctuated by tall trees/forest along the horizon line.	How would the site be used for scenic or recreational enjoyment? This is part of a wildlife management area.	
ATLANTIC SHORES 1 of 6	ATLANTIC SHORES offshore wind	2 of 6

/isual Impact Assessment	Personnel: Jocelyn Gau	vitt	Visual Impac
	KOP: EMC01 Tuci	kahoe W№	
Existing Conditions	Date: <u>08/24/22</u>		Proposed Condition
In the existing view rate the aesthetic quality/sensitivity of each resource on a	score of 1 to 9 (1 liability to 9 distinct)		With the proposed project in
lote: If an element is not present in the view the score should be 4.5 of 9.0 (no impact, e a whole number score.), otherwise, rating should		Note: If an element is not presen otherwise, rating should be a wh
		Score	
	Water Resources:	4.5	
	Landform:	6	
	Vegetation:	6	
	Land Use:	7	
	User Activity:	7	
	Existing Conditions #1 Total:	30.5	Collectively rate special cor
Respond to each question below using a score of 0 to 3 (0 not present to 3 being	ng high density)		Note: Special Conditions score is be adjusted up or down based up
Special Condition A. Does this zone contain any sceni	ic, cultural, or historic landmarks?	3	
Special Condition B. Are there other aesthetic ele	ements that add to this resource?	2	
espond to each question below using a score of 0 to 3 (0 littered/polluted to 3 fr	ree of litter/pollution)		
Special Condition C. Is this zon	ne free from pollution and/or litter?	3	3. Comments:
Existing Condition:	s #2 Total (Sum 2A through 2C)	8	While one can detect the presence of They are mostly hidden and very far
Existing Conditions Grand To Comments:	otal (Sum #1 Total and #2 Total)	38.5	

Visual Impact Assessment	Personnel: Jocelyn Gav	
	KOP: EMC01 Tuck	ahoe WM
Proposed Conditions	Date: 08/24/22	
 With the proposed project in place, rate the aesthetic quality/sensitivity of each resource 	e on a score of 1 to 9 (1 liability to 9 (distinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Sco
oniciwise, failing should be a whole humber score.	Water Resources:	4.
	Landform:	6
	Vegetation:	6
	Land Use:	7
	User Activity:	7
Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	8
	Total:	
	Totali	38
3. Comments:		
While one can detect the presence of turbines in the distance upon close examination, it is unlikely that vier They are mostly hidden and very far from the viewer.	wers will notice their presence while presen	nt at the viewp



Visual Impact Assessn	nent	Pe	rsonnel: Jocelyn Gavitt
Visual impact Assessin	iiciit		KOP: EMC01 Tuckahoe WM
Proposed Conditions - Compatibi	lity and Cont	rast Rating	Date: 08/24/22
	element is not presen uld be a whole number	nt in the view the score should b r score.	ie a 0 (no impact), otherwise,
4. Rate the compatibility of the proposed project on a	a scale of 1 to 3 (1 co	ompatible to 3 not compatible	s)
Water Resources:	1	Land Use:	1
Landform:	1	User Activity:	1
Vegetation:	1	Total:	5
5. Rate scale contrast of the proposed project on a se	cale of 1 to 3 (1 mini	mal to 3 severe)	
Water Resources:	1	Land Use:	1
Landform:	1	User Activity:	1
Vegetation:	1	Total:	5
6. Rate spatial dominance of the proposed project or	n a scale of 1 to 3 (1	subordinate, 2 co-dominant,	3 dominant)
Water Resources:	1	Land Use:	1
Landform:	1	User Activity:	1
Vegetation:	1	Total:	5
7. Comments:			
In this simulation, the proposed turbines have no real impact of	n the viewer.		

ATLANTIC SHORES
offshore wind
5 of 6

Visibility Rating	Description	
Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	V
Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	
Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compele with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or lexture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to strong contrasts in form, line, color, and lexture, bright light sources such as lighting and reflections! and moving objects associated with the study subject may contribute substantially of ordawing viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	
Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture, uniniance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by turning one's head more than 458 from a direct view of the object. The object/phenomenon is hemajor focus of visual altertion, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, color, and terrute, triply light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.	

Visual Impact Assessment	
Date: 24 August 2022 Personnel: KAC	
Landscape Similarity Zone: <u>Residents/Tourists</u> Key Observation Point Name/Number: <u>EMC01</u>	
Key Observation Point (KOP) Familiarization	
Landscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.	
The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment for (proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 n	
General elements of formal visual analysis to be considered include:	
 Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky, Some compositions, especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or ephemeral landscapes. 	
• Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual charact of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by edge, cultine, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes form, color or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.	,
 Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascand thus dominates seascape composition from a specific viewpoint. 	аре
 Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scal within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen an other contextual factors. 	
Principles of composition to be considered include:	
1. Focal Point	
Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal point the landscape/seascape.	ints
Does this view contain a focal point?	
If yes, briefly identify/describe: Horizon, but obstructed by tall grass and perennial plants in foreground.	
2. Order	
Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit ord by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.	
Does this view contain a natural order? ☑ Yes ☐ No If yes, how does the natural order affect the view?	
Smooth natural paving, highly textured foreground plant edge, short meadow grass and thin strip of background vegetation on the horizon with large view to the sky.	3
ATLANTIC SHORES offshore wind	1 of 6

Visual Impact Assessment	Personnel: KAC
	KOP: <i>EMC01</i>
Principles of composition, continued:	Date: 24 August 2022
 Visual Clutter Numerous unrelated built elements occurring within a view can create visual clutter (disradverse effect on scenic quality. 	upting the natural order), which generally has an
Does this view contain elements that contribute to visual clutter?	No.
If yes, how does the visual clutter affect the view? Foreground vegetation mass.	
Movement Motion of existing and proposed elements in a view can attract viewer attention.	
Does this view contain elements in motion that are likely to attract viewer attention?	✓ Yes □ No
(If the answer is yes, Note these elements in rating form comments)	
Factors affecting visual impact:	
5. Duration of View Some views are seen as quick glimpses while driving along a roadway or hiking a trail, of time. Longer duration views of a project, especially from significant aesthetic resourc The duration of this view is: ☐ Short Term/Fleetling ☑ Long-term	
The frequency of this view is: 🗹 Repeated 🗆 Occasional	
6. Atmospheric Conditions Clouds, precipitation, haze, and other ambient weather-related conditions can affect the can greatly impact the visibility and contrast of project components with landscape/seasiline, color, texture, and scale.	
Conditions in this view can be described as: 🗹 Clear 🗖 Partly Cloudy 🗖 Over	ercast 🔲 Hazy
Conditions that may increase/decrease visibility could be described as: cloud cover	or haze would reduce visibility.
7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming toward the observe Front lighting refers to a situation where the light source is coming from behind the obs- viewed. Side lighting refers to a viewing situation in which sunlight is coming from overt elements in a scene. Lighting direction can have a significant effect on the visibility and	erver and falling directly upon the area being nead or the side of the observer to a feature or
The relevant lighting condition can be described as: $\ \square\ $ backlit $\ \square\ $ frontlit $\ \square\ $ s	ide-lit
 Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that there is broad put resource. The characteristics of the resource that contribute to its scenic or recreational visual impact on that resource. 	
Would viewers consider this location a valued scenic or recreational resource?	s No

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ATLANTIC SHORES

offshore wind

Visual Impact Assessment Personne		Visual Impact Assessment	Personnel: KAC	
KO	P: <u>EMC01</u>		KOP: <u>EMC01</u>	
Existing Conditions	e: 24 August 2022	Proposed Conditions	Date: 24 August 202	22
In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1 liability to 1).	9 distinct)	With the proposed project in place, rate the aesthetic quality/sensitivity of each resc	ource on a score of 1 to 9 (1 liability to 9 di	istinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should	,	Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact),	,	
be a whole number score.		otherwise, rating should be a whole number score.		Score
	Score		Water Resources:	4.5
Water R	desources: 4.5		Landform:	5
	Landform: 5		Vegetation:	5
V	egetation: 5		Land Use:	5
	Land Use: 5		User Activity:	5
Us	er Activity: 5			
Existing Conditions	#1 Total: 24.5	Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct) Conditions are a second distributed from Science Conditions (3) Table and a second distributed from Science Conditions (3) Table and a second distributed from Science Conditions (3) Table and a second distributed from Science Conditions (3) Table and a second distributed from Science Conditions (3) Table and a second distributed from Science Conditions (3) Table and a second distributed from Science Conditions (3) Table and a second distributed from Science Conditions (3) Table and a second distributed from Science Conditions (3) Table and a second distributed from Science Conditions (3) Table and a second distributed (
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high density)		Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	3
Special Condition A. Does this zone contain any scenic, cultural, or historic la	ndmarks? 1			3
Special Condition B. Are there other aesthetic elements that add to this	resource?		Total:	27.5
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/pollution)				
Special Condition C. Is this zone free from pollution ar	nd/or litter?	3. Comments:		
Existing Conditions #2 Total (Sum 2A thr	rough 2C)	There is no noticeable change in the view, especially when competing with the existing tall, thin objects	s dotted along the horizon.	
Existing Conditions Grand Total (Sum #1 Total and 3. Comments:	#2 Total) 27.5			
Cultural Historic: Wildlife Refuge				
Aesthetic: Close up views to bird and insect visitors to the tall grasses and perennials.				
Litter: Visitor litter.				
Summary of view: The view is focused on the foreground to the tall grass and perennials that physically and visually interrupts the background vegetation. The midground is a uniform expanse of grasses that is edged by a very low, dark green hedgerow in the there are multiple tall, this man-made objects that break the horizon in multiple locations from the left to the right of the view. The visually weighted in the view to the green and tan tones in the lower half of the view.	background. Along the horizon line			
ATLANTIC SHORES offshore wind	3 of 6	ATLANTIC SHORES offshore wind		4 of 6

Visual Impact Assessi	ment	ersonnel: KAC	Visual Impact Assessr	
	nility and Contrast Rating n element is not present in the view the score should	KOP: EMC01 Date: 24 August 2022 be a 0 (no impact), otherwise,	Proposed Conditions 8. Visibility Threshold Level - Check the	KOP: <u>EMC01</u> Date: <u>24 August 2022</u> e box next to the description that most closely describes the visual prominence of the Project from
Rate the compatibility of the proposed project on	a a scale of 1 to 3 /1 compatible to 3 not compatible	۵)	Visibility Rating	Description
Water Resources:	1 Land Use:	1	Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an excheded period.
Landform: Vegetation:	1 User Activity: 1 Total:	5	Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers: however, most people would not notice it without some active looking.
5. Rate scale contrast of the proposed project on a			Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.
Water Resources: Landform: Vegetation:	1 Land Use: 1 User Activity: 1 Total:	1 1 5	Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.
Rate spatial dominance of the proposed project of Water Resources: Landform: Vegetation:	na a scale of 1 to 3 (1 subordinate, 2 co-dominant, Land Use: User Activity: Total:	3 dominant)	Visibility level 5. Strongly altracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the storong contrast in form, line, color, or texture, luminance, or motion.	An objectlyhenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and lending in hold that attention. In addition is storing contrasts in form, line, color, and texture, bright light sources such as lighting and reflectional and moving objects associated with the study subject may contribute substantially of ordwing viewer attention. The visual promisence of the study subject interferes noticeably with views of nearby landscape/seascape elements.
7. Comments: There is no noticeable impact to the view, especially when compared to the view of the vi			Visibility level 6. Dominates the view because the tudys quiteeff tills need of the visual field for views in its general direction. Strong contrasts in form, line, color, teature, luminance, or motion may contribute to view dominance.	An object/phonomenon with stong visual contracts that is so large that it occupies most of the visual field, and viewe of it amont be movided except by tuming open based more than 488 from a direct view of the object. The object/phonomenon is he mayer focus of visual altertion, and its large apparent size is a major factor in its view dominance. In addition to size, contracts in form, line, cotor, and teature, tripl light sources and moving objects associated with the study subject may contribute substantially for dawning viewer altertion. The visual prominence of the study subject defracts noticeably from views of other landscape/seascape elements.
			9 Comments:	

Visual Impact Assessment		Visual Impact Assessment	Personnel: Kiva VanDerGeest
·		•	KOP: EMC01 - Tuckahoe Wt
Date: 2022-08-24 Personnel: Kiva VanDerGees		Principles of composition, continued:	Date: 2022-08-24
Landscape Similarity Zone: <u>LCA - Salt Marsh</u> Key Observation Point Name/Number: <u>EMC01 - Tuckaho</u>	pe W ±	3. Visual Clutter	
Key Observation Point (KOP) Familiarization		adverse effect on scenic quality.	v can create visual clutter (disrupting the natural order), which generally has an
Landscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.		Does this view contain elements that contribute to vis	ual clutter? 🗹 Yes 🗌 No
The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment for (proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 mil			various utility towers and background development add discord and draw viewer attention from the natural setting of the foreground view.
General elements of formal visual analysis to be considered include:		Motion of existing and proposed elements in a view can al	tract viewer attention.
 Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions, especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or ephemeral landscapes. 		Does this view contain elements in motion that are lik (If the answer is yes, Note these elements in rating for	
Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual characte	.	Factors affecting visual impact:	
of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by edge, cultile, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.			ng a roadway or hiking a trail, while others are seen for a more prolonged period m significant aesthetic resources, have the greatest potential for visual impact.
Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascap and thus dominates seascape composition from a specific viewpoint.	ре	The frequency of this view is: Repeated 🗹 C	, ,
 Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors. 			elated conditions can affect the visibility of an object or objects. These conditions mponents with landscape/seascape elements and the design elements of form,
Principles of composition to be considered include:		Conditions in this view can be described as: 🗹 Cle	ear Partly Cloudy Overcast Hazy
1. Focal Point		Conditions that may increase/decrease visibility coul	d be described as: visibility at this distance would no longer be available if
Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal poir in the landscape/seascape.	nts	Front lighting refers to a situation where the light source in viewed. Side lighting refers to a viewing situation in which	hazylovercast conditions. It is coming toward the observer from behind a feature or elements in a scene. s coming from behind the observer and falling directly upon the area being n sunlight is coming from overhead or the side of the observer to a feature or cant effect on the visibility and contrast of landscape and project elements.
Does this view contain a focal point? 🗹 Yes 🗖 No			
If yes, briefly identify/describe: There is more than one focal point. Primary focus - tall foreground plants & the open grass to the right.		The relevant lighting condition can be described as:	backlit 🔲 frontlit 🗹 side-lit
2. Order Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit orde by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.	¥	Scenic or Recreational Value Designation as a scenic or recreational resource is an in resource. The characteristics of the resource that contrib visual impact on that resource.	dication that there is broad public consensus on the value of that particular ute to its scenic or recreational value provide guidance in evaluating a project's
Does this view contain a natural order? \square Yes \square No If yes, how does the natural order affect the view?		Would viewers consider this location a valued scenic or r	ecreational resource? 🗹 Yes 🔲 No
Natural order moves the viewer's eye through the frame. Form, line, and color shifts from the orange hue gravel path to the form of the tall vegetation, the open grassy field and dark forest/hills on the horizon with open blue sky.		How would the site be used for scenic or recreational enj	oyment? State Wildlife Management Area - Viewing and interacting with nature and wildlife
ATLANTIC SHORES offshore wind	1 of 6	ATLANTIC SHORES offshore wind	2

Visual Impact Assessment	Personnel: Kiva VanDerG	eest
	KOP: EMC01 - Tuck	ahoe W #
Existing Conditions	Date: 2022-08-24	
In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to	9 (1 liability to 9 distinct)	
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rule a whole number score.	· ·	
		Score
	Water Resources:	4.5
	Landform:	5
	Vegetation:	6
	Land Use:	7
	User Activity:	6
Existing	g Conditions #1 Total:	28.5
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high dense constant $^{\circ}$	ity)	
Special Condition A. Does this zone contain any scenic, cultural,	or historic landmarks?	2
Special Condition B. Are there other aesthetic elements that	it add to this resource?	2
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/polluted to 3 free of litter/pollute	ollution)	
Special Condition C. Is this zone free from	n pollution and/or litter?	3
Existing Conditions #2 Total	(Sum 2A through 2C)	7
Existing Conditions Grand Total (Sum : 3. Comments:	#1 Total and #2 Total)	35.5
Movement attracting viewer attention: Vegetation movement in the wind		
This inland view from the Tuckahoe WMA looks outward from a gravel pathway across wetland vegetation and view, and, to the right of the view, the bays and bridges separating the mainland from the barrier Islands that manage of green vegetation cofer the admoscape which is offset by the soft blue sky, No water resources are visib pond exists to the left of the view. The landform is open, even, and primarily flat, which provides interesting lon, Land use is primarily focused on preservation of natural environment for all, and user activity is open and avails wildlife.	akeup the ocean shoreline. A variety of or le in the single frame view, although a brig g-range views despite a lack of variation in	angy-browns and ghtly colored n topography.
This is a State WMA. Color variation in vegetation and elements just beyond the view add aesthetic elements to	this view. No litter is present in the view.	

Visual Impact Assessment	Personnel: Kiva VanDer	Geest
Visual impact / issuessiment	KOP: <i>EMC01 - Tuc</i>	kahoe W
Proposed Conditions	Date: <u>2022-08-24</u>	
 With the proposed project in place, rate the aesthetic quality/sensitivity of each resi 	ource on a score of 1 to 9 (1 liability to 9	distinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no Impact), otherwise, rating should be a whole number score.		Score
	Water Resources:	4.5
	Landform:	5
	Vegetation:	6
	Land Use:	7
	User Activity:	6
Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	7
	Total:	35.5
	rotan	
3. Comments:	. Coda.	
3. Comments: Distant turbines have been added to this view. However, it is unlikely that viewers at this distance wou portions of the turbines are primarily limited to the bade-tips with an occasional nacelle. Viewer distan not preceptibly somegne this view. The front lit turbines appearing light while not heroizon and beland utility structures are already present in the scene and, appearing dark against the sky, distract from the	lid be able to discern the Facility without prolongs ce and color of the turbines limits visibility of the considerably with the light blue shade of the sky.	Facility and does
Distant turbines have been added to this view. However, it is unlikely that viewers at this distance wou portions of the turbines are primarily limited to the blade-lips with an occasional nacelle. Viewer distan not perceptibly change this view. The front-lift turbines appearing light white on the horizon and blend.	id be able to discern the Facility without prolongs ce and color of the turbines limits visibility of the considerably with the light blue shade of the sky. e addition of turbine blade tips.	Facility and does A variety of tall
Distant turbines have been added to this view. However, it is unlikely that viewers at this distance wou portions of the turbines are primarily limited to the blade-lips with an occasional nacelle. Viewer distan not perceptibly change this view. The front-lit turbines appearing light white on the horizon and blend utility structures are already present in the scene and, appearing dark against the sky, distract from the Turbines may be more visible during conditions in which the turbines appear dark on the horizon, how	ild be able to discern the Facility without prolongs ce and color of the turbines limits visibility of the considerably with the light blue shade of the sky, a addition of turbine blade tips. ever they are still likely to be obscured by interve	Facility and does A variety of tall
Distant turbines have been added to this view. However, it is unlikely that viewers at this distance wou portions of the turbines are primarily limited to the blade-lips with an occasional nacelle. Viewer distan not perceptibly change this view. The front-lit turbines appearing light white on the horizon and blend utility structures are already present in the scene and, appearing dark against the sky, distract from the Turbines may be more visible during conditions in which the turbines appear dark on the horizon, how utility towers, and other elements on the horizon.	ild be able to discern the Facility without prolongs ce and color of the turbines limits visibility of the considerably with the light blue shade of the sky, a addition of turbine blade tips. ever they are still likely to be obscured by interve	Facility and does A variety of tall
Distant turbines have been added to this view. However, it is unlikely that viewers at this distance wou portions of the turbines are primarily limited to the blade-lips with an occasional nacelle. Viewer distan not perceptibly change this view. The front-lit turbines appearing light white on the horizon and blend utility structures are already present in the scene and, appearing dark against the sky, distract from the Turbines may be more visible during conditions in which the turbines appear dark on the horizon, how utility towers, and other elements on the horizon.	ild be able to discern the Facility without prolongs ce and color of the turbines limits visibility of the considerably with the light blue shade of the sky, a addition of turbine blade tips. ever they are still likely to be obscured by interve	Facility and does A variety of tall



Personnel: Kiva VanDerGeest **Visual Impact Assessment** KOP: EMC01 - Tuckahoe W Date: 2022-08-24 Proposed Conditions - Compatibility and Contrast Rating Note: If an element is not present in the view the score should be a 0 (no impact), otherwise, rating should be a whole number score. 4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible) Land Use: Water Resources: 0 1 User Activity: Landform: 1 1 Vegetation: 4 5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) $\,$ Water Resources: 0 Land Use: 1 Landform: 1 User Activity: 1 Vegetation: Total: 1 4 6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominant) Water Resources: Land Use: Landform: User Activity: Vegetation: Total: 4 7. Comments: Turbines are unlikely to visible to the casual observer. Visibility may be available during conditions in which the turbines are back-lit, but even under these conditions they will be difficult to discern and will be compatible in scale and subordinate in dominance with the utility structures already present in the view

Personnel: Kiva VanDerGeest Visual Impact Assessment KOP: EMC01 - Tuckahoe Wa Date: 2022-08-24 **Proposed Conditions** 8. Visibility Threshold Level - Check the box next to the description that most closely describes the visual prominence of the Project from the selected KOP. Visibility Rating An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period. Visibility level 1. Visible only after extended close viewing; otherwise invisible. \checkmark An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be defected without extended viewing, it could sometimes be notified by passal observers; however, most people would not notice it without some active looking. Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers. Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers. An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscapel seascape elements. Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject. An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field. An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to strong contasts in form, fine, color, and texture, bright ingly sources such as lighting and reflections and moving objects associated with the study subject may contribute substantially of crawing viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements. Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion. Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction Strong contrasts in form, line, color, texture luminance, or motion may contribute to view dominance. An object/phenomenon with sirong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by turning one's head more than 458 from a direct view of the object. The object/phenomenon is the major focus of visual altertion, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in from, time, color, and feature, bright light courses and moving objects associated with the study subject defracts noticeably from views of other landscape/seascape elements. 9. Comments: Potential visibility of these turbines is very limited and may not be discernible to most viewers. A VTL of 1 may be an overstated

Visual Impact Assessment	
Date: August 24, 2022	Personnel: Steve Breitzka
Landscape Similarity Zone: Salt Marsh	Key Observation Point Name/Number: EMC01
Key Observation Point (KOP) Familiarization	n.
Landscape/seascape, viewer, and related factors to be considered	during evaluation of the KOP are outlined below.
	rporaled into the scoring and comments on the VIA assessment form valions and should be completed quickly, taking no more than 5 minutes)
General elements of formal visual analysis to be consider	ed include:
their spatial arrangement. Basic landscape components in	of objects and voids in the landscape that can be categorized by nclude vegetation, landform, water, and sky. Some compositions, d, or feature-oriented, are more vulnerable to modifications than
of a landscape/seascape, as well as a project. Form refer edge, outline, and surrounding space. Line refers to the p or texture, usually evident as the edges of shapes or mas	or compositional elements that define the perceived visual character is to the shape of an object that appears unified, often defined by afth the eye follows when perceiving abrupt changes in form, color, ses in the landscape/seascape. Texture, in this context, refers to to which form, line, color, and texture of a project are similar to or persessease is a primary determinant of visual impact.
 Spatial Dominance: The degree to which an object or lar and thus dominates seascape composition from a specific 	ndscape/seascape element occupies space in a landscape/seascape c viewpoint.
	relation to its surroundings can define the compatibility of its scale is likely to vary depending on the distance from which it is seen and
Principles of composition to be considered include:	
1. Focal Point	
physical characteristics. Focal points often contrast with tend to draw a viewer's attention. Examples include pron	es stand out and are particularly noticoable as a result of their their surroundings in color, form, scale, or texture, and therefore innent trees, mountains, or cultural features, such as a distinctive ated so as to obscure or compote with important existing focal points
Does this view contain a focal point? Yes	No
If yes, briefly identify/describe: There are intriguing plant	majerials but nothing wormy of "focal point."
2. Order	And the second s
by displaying traditional or logical patterns of land use/de this natural order may detract from scenic quality. When	'determined by natural processes. Cultural landscapes okhibit order- welopment. Elements in the landscape that are inconsistent with a new project is introduced to the landscape, intactness and order colors, and textures existing in the surrounding built or natural
Does this view contain a natural order?	
The natural order in this view is just that, natural. There is a dir remainder of the lower half of the scene.	t road curving off the left side of the scene and wild salt marsh vegetation filling the

sual Impact Assessment	Personnel: Steve Breitzka
	KOP: EMC01
Principles of composition, continued:	Date: August 24, 2022
Visual Clutter Numerous unrelated built elements oscurring within a view can create viadverse effect on scenic quality.	sual clutter (disrupting the natural order), which generally has an
Does this view contain elements that contribute to visual clutter?	☐ Yes ☑ No
If yes, how does the visual clutter affect the view?	
Movement Motion of existing and proposed elements in a view can attract viewer at	tention.
Does this view contain elements in motion that are likely to attract vi	ewer attention? 🗹 Yes 🗌 No
(If the answer is yes, Note these elements in rating form comments)	
Factors affecting visual impact:	
Duration of View Some views are seen as quick glimpses while driving along a roadway of time. Longer duration views of a project, especially from significant at	
The duration of this view is: Short Term/Fleeting Long-ler	m
The frequency of this view is: Repeated Occasional	
 Atmospheric Conditions Clouds, precipitation, haze, and other ambient weather-related condition can greatly impact the visibility and contrast of project components with line, volor, exture, and scale. 	
Conditions in this view can be described as: Clear Partly	Cloudy Overcast O Hazy
Conditions that may increase/decrease visibility could be described	las:
7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming tow Front sighting refers to a situation where the light source is coming from viewed. Site lighting refers to a viewing situation in which surright is on elements in a scene. Lighting direction can have a significant effect on t	behind the observer and falling directly upon the area being ming from overhead or the side of the observer to a feature or
The relevant lighting condition can be described as: backlit	frontlit 🗹 side-lit
Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that the resource. The characteristics of the resource that contribute to its sceni	
visual impact on that resource.	137 177 177 177 177 177 177 177 177 177
Would viewers consider this location a valued scenic or recreational res	ource? Ves No
How would the site be used for scenic or recreational enjoyment? View	ring wildlife, hiking, observing salt marsh vegetation

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ATLANTIC SHORES

ATLANTIC SHORES

Visu

5 of 6

Visual Impact Assessment	Personnel: Steve	Breitzka	Visual Impact As	sessment	Personnel: Steve Breitz	tka
	KOP: EMCO:		A P. College St. March St. Annals		KOP: EMC01	
Existing Conditions	Date: Augus	1 24, 2022	Proposed Conditions		Date: August 24,	2022
1. In the existing view rate the aesthetic quality/s	ensitivity of each resource on a score of 1 to 9 (1 liability to 9 distinct)		1. With the proposed project in place, re	ate the aesthetic quality/sensitivity of each resou	rce on a score of 1 to 9 (1 liability to 9	distinct)
Note: If an element is not present in the view the sco be a whole number score.	re should be 4.5 of 9.0 (no impact), otherwise, rating should		Note: If an element is not present in the vi otherwise, rating should be a whole numb	ew the score should be 4,5 of 9,0 (no impact), er score.		Score
1122		Score			Water Resources:	4.5
	Water Resource	4.5			Landform:	6
	Landform	6			Vegetation:	7
	Vegetation	7				
	Land Us				Land Use:	8
					User Activity.	7
	User Activit	7				
	Existing Conditions #1 Total	32,5		on a score of 0 to 9 (0 liability to 9 distinct) rectly from Existing Continions #2 Total and can		
2. Respond to each question below using a score	of 0 to 3 (0 not present to 3 being high density)		be adjusted up or down based upon the P		Special Conditions:	9
Special Condition A. Does to	his zone contain any scenic, cultural, or historic landmarks	7 3				
Special Condition B. A	re there other aesthetic elements that add to this resource	7 3			Total:	41.5
Respond to each question below using a score of	0 to 3 (0 littered/polluted to 3 free of litter/pollution)					41.5
Spec	ial Condition C. Is this zone free from pollution and/or litte	2 3	3. Comments:			
	F-2-12-16-18-18-18-18-18-18-18-18-18-18-18-18-18-	. [The proposed turbines are difficult to locate in to find them. Once found, they are not visible	this view at almost 26 miles away. They were not apparer at 100% viewing. The turbines are low at this distance and	t until zooming in to 300% and then still had I they are below existing utility structures.	to scan the horizon
	Existing Conditions #2 Total (Sum 2A through 20			n, further obscuring the gray / white turbine structures.		
3. Comments:	ting Conditions Grand Total (Sum #1 Total and #2 Total	41.5				
The salt marsh is a unique landscape with unusual waterw	rays and expansive fields of low vegetation. The grasses (possibly phragmittes?) in	the foreground will sway in				
at far right. These elements are not clear until zoomed into A dark blade of distant vegetation separates the foregroun						
ATLANTIC SHORES offshore wind		3 of 6	ATLANTIC SHORES offshore wind			4 0
	Personnel: Steve	Broitska	Mary Control Control		Personnel: Steve Breitz	rka
Visual Impact Assess	kop: EMCO:		Visual Impact Assessr	nent	KOP: EMC01	nu
	Date: Augus	A 100 MARCH 18 A 100			Date: August 24,	2022
Proposed Conditions - Compati	bility and Contrast Rating		Proposed Conditions	box next to the description that most closely de		
	an element is not present in the view the score should be a 0 (no impact), hould be a whole number score.	otherwise.	the selected KOP.	sook next to the description that most crosely de	scribes the visual profitmence of the r	roject nom
4. Rate the compatibility of the proposed project	on a scale of 1 to 3 (1 compatible to 3 not compatible)		Visibility Rating	Description An object/phenomenon that is near the extreme limit of v		_
Water Resources:	D Land Use:		close viewing; otherwise invisible.	who was unaware of it in advance and looking for it. Eve can be seen only after looking at it closely for an extende	n under those circumstances, the object	V
Landform:	1 User Activity: 1		Visibility level 2. Visible when scanning in the general direction of the study subject:	An object/phenomenon that is very small and/or faint, but horizon or looking more closely at an area, can be detect	and without extended viewing. It could	
Vegetation:	1 Total: 4]	otherwise likely to be missed by casual observers.	sometimes be noticed by casual observers, however, mo some active looking.	st people would not notice it without	
5. Rate scale contrast of the proposed project on	a scale of 1 to 3 (1 minimal to 3 severe)		Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual	An object/phenomenon that can be easily detected after most casual observers, but without sufficient size or cont	a binef look and would be visible to rast to compete with major landscape/	
Water Resources:	0 Land Use: 1		and unlikely to be missed by casual observers.	seascape elements.		
Landform:	1 User Activity: 1	Ť	Visibility level 4. Plainty visible, so could not be missed by casual observers, but	An object/phenomenon that is obvious and with sufficient landscape/seascape elements, but with insufficient visual	contrast to strongly attract visual	
Vegetation:	1 Total: 4	j	does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of	attention and insufficient size to occupy most of an obser	ver's visual field,	
6. Rate spatial dominance of the proposed project	t on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominant)	=3"	the study subject.	to the same time to		
Water Resources:	O Land Use: 1	1	Visibility level 5. Strongly altracts the visual attention of views in the general direction of the study subject. Attention may be drawn	An object/phenomenon that is not large but contrasts wit		
Landform:		- II	trie study subject. Attention may be drawn	so strongly that it is a major focus of visual attention, dra	wing viewer attention immediately and	
Vegetation:	1 User Activity:		by the strong contrast in form, line, color, or texture, luminance, or motion.	tending to hold that attention. In addition to strong contra	wing viewer attention immediately and sts in form, line, color, and texture, moving objects associated with the study	
	1 User Activity: 1 1 Total: 4		by the strong contrast in form, line, color, or	tending to hold that attention. In addition to strong contra	wing viewer attention immediately and sts in form, line, color, and texture, moving objects associated with the study	
			by the strong contrast in form, line, color, or texture, luminance, or motion. Visibility level 6: Dominates the view because the study subject fifts most of the	lending (a hold that alternion in addition to strong contra- bright fight sources such as lighting and reflectional subject may contribute substantially to drawing viewer at study subject individuals substantially to drawing viewer at study subject individuals substantially to drawing viewer of nearthy to the object of the substantial substantial substantial state. An object/phenomenon with strong viewal contrasts that virsual field, and views of it connot be avoided cereats that	wing viewer attention immediately and six in form, line, color, and texture, moving objects associated with the study stellation. The visual prominence of the inducence in a study and a study six olders are study as a study six olders and the study and the six olders are study as a study as a six olders and study as a study as a study as a six olders and study as a study as a study as a six olders and study as a study as a study as a six olders and study as a study as a study as a study as a six of study as a study as a study as a study as a study as a six olders as a study as a study as a study as a study as a study as a study as a study as a study as a study as a study as a study as a study as a study as a study as a study as a study as a study as a study as a study	
			by the stong contrast in form, line, color, or te state, furnisance, of motion. Visibility level 6 Dominates the view because the study subject this most of the visual field for views in its general direction. String contrasts in form, inc. color, source, the contrasts in form, inc. color, source, the color source is the color source.	tending to hold that attention. In addition to strong contra- bight light access such as lighting and reflectional and subject may contribute substantially to drawing viewer at study subject attentions noticeabily with views of meantly it an object/phenomenon with strong visual contrasts that visual field, and views of it cannot be avoided except by a direct view of the object. The object/phenomenon is the larger apparent size is a major factor in k view dominance.	wing viewe afterfillor intrinediately and skin form line, cloor, and festure, moving objects associated with the study testion. The visual prominence of the intrinsic prominence of the intrinsic prominence of the intrinsic prominence of the moving one's head move than 456 from major focus of visual attention, and its or in addition to sixty, contrasts in form,	
7. Comments:	1 Total: 4]	by the strong contrast in form, line, color, or texture, luminance, or motion. Visibility level 6. Dominates the view bocause the study subject filts most of the visual field for views in this general direction:	tending for hold that alternion. In addition to strong contra- bright light accurses such as lighting and reflectional and subject may contribute substantially to drawing viewer at study subject etieflines notionably attn views of nearby to An object/phienomenon with strong visual contrasts that in visual field, and views of it cannot be avoided except by a a direct view of the object. The object/phienomenon is the	wing viewer alterficin immediately and six in form, live, clory and festure, moving objects associated with the study letter. Proving objects associated with the study letter. The visual promisence of the endocuparturearceps elementer is so large that it occupies most of the furning one's hast proving one's hast of 56 from a major focus of visual attention, and its unknown of the furnity of the contract of the furnity subject is associated with the study subject to his visual promisence of the study.	
7. Comments; The turbines do not have a strong enough presence to imp	1 Total: 4	1	by the atong contrast in form, line, color, or testure, luminance, or motion. Visibility level 6. Dominates the view boosses the story subject fills most of the visual field for views in line general direction. Strong contrasts in form, line, color, souture, luminance, or motion may contribute to	tending to hold that attention. In addition to strong contra- bight light access such as lighting and reflectional and subject may contribute authorisationally for drawing visions at study subject interferom endocrability with visions of meanthy i. An object/phenomenon with strong visional contrasts that visual field, and views of it cannot be avoided except by a direct view of the object. The object/phenomenon is the larget appeared size i a major factor in its view dominana- line, color, and instrute, fright light sources and moving or way contribute substantially to diversity views attention.	wing viewer alterficin immediately and six in form, live, clory and festure, moving objects associated with the study letter. Proving objects associated with the study letter. The visual promisence of the endocuparturearceps elementer is so large that it occupies most of the furning one's hast proving one's hast of 56 from a major focus of visual attention, and its unknown of the furnity of the contract of the furnity subject is associated with the study subject to his visual promisence of the study.	

Perhaps the turbines will be more visible when in motion but they are simply not visible until zooming into the view and specifically looking for them

		Viewel Immed Accessment	Personnel: Jocelyn Gavitt
Visual Impact Assessment		Visual Impact Assessment	KOP: GT01 Edwin B. Forsyth
Date: 2/25/21 Personnel: J	ocelyn Gavitt	Principles of composition, continued:	
Landscape Similarity Zone: Salt Marsh Key Observation Point Name/Number: G	T01 Edwin B. Forsyta	3. Visual Clutter	Date: <u>2/25/21</u>
Key Observation Point (KOP) Familiarization		Numerous unrelated built elements occurring within a view can create visual adverse effect on scenic quality.	clutter (disrupting the natural order), which generally has an
Landscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.	.	Does this view contain elements that contribute to visual clutter?	Yes No
The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the V (proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking		If yes, how does the visual clutter affect the view? Only slightly, The di	stant built environment generally reads as a mass.
proposed containing. [1716-10171 to fine rade to record finitial observations and should be completed quickly, taking i	no more than o minutesy	4. Movement	
General elements of formal visual analysis to be considered include:		Motion of existing and proposed elements in a view can attract viewer attenti	
 Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Som especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to me. 	ne compositions,	Does this view contain elements in motion that are likely to attract viewe (If the answer is yes, Note these elements in rating form comments)	er attention? 🗹 Yes 📙 No
panoramic, canopied, or ephemeral landscapes.	odifications than		
• Form, Line, Color, and Texture: These are the four major compositional elements that define the perceiv		Factors affecting visual impact:	
of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes and the same project in the same project.		5. Duration of View	
or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this c	context, refers to	Some views are seen as quick glimpses while driving along a roadway or hi of time. Longer duration views of a project, especially from significant aesth	iking a trail, while others are seen for a more prolonged period letic resources, have the greatest potential for visual impact.
the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project contrast with these same elements in the existing landscape/seascape is a primary determinant of visual in	mpact.	The duration of this view is: Short Term/Fleeting Long-term	
 Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a l and thus dominates seascape composition from a specific viewpoint. 	landscape/seascape	The frequency of this view is: Repeated Occasional	
 Project Scale: The apparent size of a proposed project in relation to its surroundings can define the comp within the existing seascape. Perception of project scale is likely to vary depending on the distance from w other contextual factors. 		 Atmospheric Conditions Clouds, precipitaliton, haze, and other ambient weather-related conditions or can greatly impact the visibility and contrast of project components with lant line, color, texture, and scale. 	
Principles of composition to be considered include:		Conditions in this view can be described as: 🗹 Clear 🔲 Partly Clou	udy Overcast Hazy
1. Focal Point		Conditions that may increase/decrease visibility could be described as:	
Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important in the landscape/seascape.	e, and therefore h as a distinctive	7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming toward Front lighting refers to a situation where the light source is coming from both viewed. Side lighting refers to a dewing situation in which sunlight is coming elements in a scene, Lighting direction can have a significant effect on the view of the complex of the	aind the observer and falling directly upon the area being g from overhead or the side of the observer to a feature or
Does this view contain a focal point? Yes No If ves. brieffy identify/describe: The road anchors the view.			<u></u>
,,,		The relevant lighting condition can be described as: backlit fro	ontlit LI side-lit
2. Order Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural lands by displaying traditional or logical patterns of land use/development. Elements in the landscape that are in this natural order may detract from scenic quality. When a new project is introduced to the landscape, inta are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding benvironment.	nconsistent with actness and order	Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that there resource. The characteristics of the resource that contribute to its scenic or visual impact on that resource.	
Does this view contain a natural order? ☑ Yes ☐ No If yes, how does the natural order affect the view?		Would viewers consider this location a valued scenic or recreational resource	ce? 🗹 Yes 🗆 No
There is a layering of salt marsh with a built horizon area.		How would the site be used for scenic or recreational enjoyment?	marsh landscape is interesting.
ATLANTIC SHORES offshore wind	1 of 6	ATLANTIC SHORES offshore wind	2 σ

ATLANTIC SHOR offshore w		1 of 6	ATLANTIC SHORES offshore wind		2 of 6
Visual Impact As	sessment Personnel: Joc	elyn Gavitt	Vioual Impact Accomment	Personnel: Jocelyn Gav	vitt
visual illipact As	36331116111	11 Edwin B. Forsyth	Visual Impact Assessment	KOP: GT01 Edwin	
Existing Conditions	Date: <u>2/25</u>	5/21	Proposed Conditions	Date: <u>2/25/21</u>	
1. In the existing view rate the	e aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1 liability to 9 distinct	ct)	1. With the proposed project in place, rate the aesthetic quality/sensitivity of each re	esource on a score of 1 to 9 (1 liability to 9	distinct)
Note: If an element is not present be a whole number score.	nt in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Score
		Score		Water Resources:	6
	Water Resour	ces: 7		Landform:	4
	Landfo	orm: 5		Vegetation:	6
	Vegeta	tion: 7		Land Use:	6
	Land U	Jse: 7		User Activity:	6
	User Acti	vity:			
	Existing Conditions #1 To	otal: 32	Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct) Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can		
2. Respond to each question	below using a score of 0 to 3 (0 not present to 3 being high density)		be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	5
Special Cor	ndition A. Does this zone contain any scenic, cultural, or historic landmar	rks? 2			
Specia	al Condition B. Are there other aesthetic elements that add to this resour	rce? 1		Total:	33
Respond to each question be	low using a score of 0 to 3 (0 littered/polluted to 3 free of litter/pollution)				
	Special Condition C. Is this zone free from pollution and/or life	tter?	3. Comments:		
	Existing Conditions #2 Total (Sum 2A through	2C) 5	The offshore turbines are obscured by the presence of the built up shoreline from this vantage simulation, perhaps allowing them to blend better with the background sky coloring. While the view and shapes within the salt marsh and the built shoreline have a distracting factor.		
3. Comments:	Existing Conditions Grand Total (Sum #1 Total and #2 To	otal) 37			
	eground and a built condition along the horizon line has complexities of texture that keep the view salt marsh landscape calls attention, and the unevenness of the built condition along the horizon or				

ATLANTIC SHORES

of buildings.

Personnel: Jocelyn Gavitt Visual Impact Assessment KOP: GT01 Edwin B. Forsyth Date: 2/25/21 **Proposed Conditions - Compatibility and Contrast Rating** Note: If an element is not present in the view the score should be a 0 (no impact), otherwise, rating should be a whole number score. 4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible) Land Use: Water Resources: 3 2 Landform: 2 User Activity: 2 Vegetation: Total: 11 5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) Water Resources: Land Use: 2 Landform: 2 User Activity: 2 Vegetation: 2 Total: 10 6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominate) Water Resources Land Use: 2 User Activity: Landform 2 Vegetation: Total: 2 10 7. Comments: These turbines are highly visible due to their quantity, but are somewhat mitigated by the presence of complex forms in this view

ATLANTIC SHORES

Visual Impact Assessment

KOP: GT01 Edwin B. Forsytt

Date: 2/25/21

Personnel: Jocelyn Gavitt

roposed	l Cond	litions

8. Visibility Threshold Level - Check the box next to the description that most closely describes the visual prominence of the Project from the selected KOP

Visibility Rating	Description	
Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be defected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	
Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape-seascape elements, but with insufficient visual contrast to strongly affract visual attention and insufficient size to occupy most of an observer's visual field.	✓
Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements as strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to strong contrasts in form, line, color, and texture, bright light sources such a slighting and reflectional and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual promisence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	
Visibility level 6. Dominates the view because the study subject fills most of the visual field for verse in its general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by turning one's head more than 45° from a direct view of the object. The object/phenomenon is the major focus of visual attention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, color, and texture, bright light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.	

ATLANTIC SHORES

Numerous turbines are clearly visible in this view

9. Comments:

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Visual Impact Assessment	
Date: 23 February 2021	Personnel: KAC
Landscape Similarity Zone: Salt Marsh	Key Observation Point Name/Number: GT01 EBF NWR

Key Observation Point (KOP) Familiarization

Landscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.

The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form (proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes)

General elements of formal visual analysis to be considered include:

- Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or ephemeral landscapes.
- Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character
 of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by
 edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color,
 or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to
 the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or
 context with beace same depending the properties of the visual insurate. contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.
- Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint.
- Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale
 within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and

Principles of composition to be considered include:

1. Focal Point

Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape.

Does this view contain a focal point? $\ensuremath{\square}$ Yes $\ensuremath{\square}$ No

If yes, briefly identify/describe: Gravel road, marsh, man-made structures, and horizon.

2. Order

Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.

Does this view contain a natural order? Yes No If yes, how does the natural order affect the view'

Gravel road, marsh, built horizon; the view is heavily bisected by the gravel roadway that divides the salt marsh in half and leads the eye to the built horizon and landing on the water towers.

Visual	Imnact	Assessmer	١f

1	KOP: GT01 EBF NWR
Principles of composition, continued:	Date: 23 February 2021
3. Visual Clutter	
Numerous unrelated built elements occurring within a view can create visu adverse effect on scenic quality.	al clutter (disrupting the natural order), which generally has an

Personnel: KAC

Does this view contain elements that contribute to visual clutter?

Yes
No. If yes, how does the visual clutter affect the view? Vehicular gate, car, and built structures on the far horizon

4. Movement

Motion of existing and proposed elements in a view can attract viewer attention

Does this view contain elements in motion that are likely to attract viewer attention? $\ lacksquare$ Yes $\ lacksquare$ No

(If the answer is yes, Note these elements in rating form comments)

Factors affecting visual impact:

5. Duration of View

Some views are seen as quick glimpses while driving along a roadway or hilking a trail, while others are seen for a more protonged period of time. Longer duration views of a project, especially from significant aesthetic resources, have the greatest potential for visual impact.

The duration of this view is: Short Term/Fleeting Long-term

The frequency of this view is:

Repeated
Occasional

6. Atmospheric Conditions

Clouds, precipitation, haze, and other ambient weather-related conditions can affect the visibility of an object or objects. These conditions can greatly impact the visibility and contrast of project components with landscape/seascape elements and the design elements of form,

Conditions in this view can be described as: ☑ Clear ☐ Partly Cloudy ☐ Overcast ☐ Hazy

Conditions that may increase/decrease visibility could be described as: Atmospheric haze may change the level of visibility to the

7. Lighting Direction

Backlighting refers to a viewing situation in which sunlight is coming toward the observer from behind a feature or elements in a scene. Front lighting refers to a situation where the light source is coming from behind the observer and falling directly upon the area being viewed. Side lighting refers to a viewing situation in which sunlight is coming from overhead or the side of the observer to a feature or elements in a scene. Lighting direction can have a significant effect on the visibility and contrast of landscape and project elements.

The relevant lighting condition can be described as:		backlit	✓	frontlit	Ш	side-lit
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8. Scenic or Recreational Value

ATLANTIC SHORES

Designation as a scenic or recreational resource is an indication that there is broad public consensus on the value of that particular resource. The characteristics of the resource that contribute to its scenic or recreational value provide guidance in evaluating a project's visual impact on that resource.

Would viewers consider this location a valued scenic or recreational resource?

Yes
No

How would the site be used for scenic or recreational enjoyment? Edwin B. Forsythe NWR

Visual Impact Assessment	Personnel: KAC		Visual Impact Assessment	Personnel: KAC	
	KOP: GT01 EBF NW	<u>/R</u>	'	KOP: GT01 EBF NWI	R
Existing Conditions	Date: 23 February 20	021	Proposed Conditions	Date: 23 February 20	121
1. In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1 lia	ability to 9 distinct)		With the proposed project in place, rate the aesthetic quality/sensitivity of a second control of the cont	each resource on a score of 1 to 9 (1 liability to 9 dis	tinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating si be a whole number score.	hould		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no imported in the view and the view that some should be a whole number score.	pact),	Score
		Score		Water Resources:	6
\	Water Resources:	7		Landform:	6
	Landform:	7		Vegetation:	6
	Vegetation:	7		Land Use:	6
	Land Use:	7		User Activity:	6
	User Activity:	7			
Existing Cor	nditions #1 Total:	35	Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 disti Note: Special Conditions score is taken directly from Existing Conditions #2 Total a		
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high density)			be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	3
Special Condition A. Does this zone contain any scenic, cultural, or his	storic landmarks?	1			
Special Condition B. Are there other aesthetic elements that add	I to this resource?	1		Total:	33
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/pollution	n)				
Special Condition C. Is this zone free from poll	ution and/or litter?	1	3. Comments:		
Existing Conditions #2 Total (Sum	n 2A through 2C)	3	The visual impacts of the Project in place is offset by the white color and slender profile be more severe if the turbines were backlit, thereby appearing visually heavier on the b	background sky, or if the sky itself was darker in color or over	ercast. The
Existing Conditions Grand Total (Sum #1 To 3. Comments:	otal and #2 Total)	38	light color of the turbines allows the rich tapestry of the wildlife refuge vegetation and w aesthetic quality of the view is modified by the introduction of such a massive wind farm		ver, tne
Cultural Historic: Edwin B. Forsythe NWR					
Aesthetic: Salt marsh environment that clearly shows the old mosquito ditching marks in the water vegetation.					
Litter: Visitor roadway litter.					
Summary of View: The elevated view from the roadside observation platform provides a long distance view thro on the horizon. The elevated position provides visual access to the manipulated landforms impacted by the old of alternating valer and grass in the marsh). In addition, the unique view highlights in the intervoven tapesty of green roadside grass, deep blue water rippling in the breeze, and the chartreuse marsh grass; there is a high lev	practice of mosquito ditching (the the light colored road, highly text	long striations ured and deep			
ATLANTIC SHORES offshore wind		3 of 6	ATLANTIC SHORES offshore wind		4 of
				WA 0	

Visual Impact Assessn	nent P	ersonnel: KAC	Visual Impact Assessi	ment Personnel:_ <i>KAC</i>	
Visual impact / issessin	Hom	KOP: GT01 EBF NWR	, , , , , , , , , , , , , , , , , , , ,	КОР: <u><i>GT01 EB</i></u>	FNWR
Proposed Conditions - Compatibil	lity and Contract Pating	Date: 23 February 2021	Proposed Conditions	Date: 23 Febru	ary 2021
	, ,			e box next to the description that most closely describes the visual prominence of t	ne Project from
	element is not present in the view the score should uld be a whole number score.	be a 0 (no impact), otherwise,	the selected KOP.		
			Visibility Rating	Description	
4. Rate the compatibility of the proposed project on a	a scale of 1 to 3 (1 compatible to 3 not compatible	e)	Visibility level 1. Visible only after extended,		
Water Resources:	1.5 Land Use:	1	close viewing; otherwise invisible.	who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
Landform:	1.5 User Activity:	1	Visibility level 2. Visible when scanning in the general direction of the study subject;	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could	
Vegetation:	1 Total:	6	otherwise likely to be missed by casual observers.	sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
5. Rate scale contrast of the proposed project on a so	cale of 1 to 3 (1 minimal to 3 severe)		Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	
Water Resources:	1.5 Land Use:	1	observers.		
Landform:	1.5 User Activity:	1	Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	_
Vegetation:	1 Total:	6	does not strongly attract visual attention of dominate the view because of its apparent size, for views in the general direction of the study subject.	attention and insulicient size to occupy most or an observer's visual netu.	
6. Rate spatial dominance of the proposed project on	n a scale of 1 to 3 (1 subordinate, 2 co-dominant,	3 dominant)	Visibility level 5. Strongly attracts the visual	An object/phenomenon that is not large but contrasts with the surrounding landscape elements	
Water Resources:	1.5 Land Use:	1	attention of views in the general direction of the study subject. Attention may be drawn	so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to strong contrasts in form, line, color, and texture.	
Landform:	1.5 User Activity:	1	by the strong contrast in form, line, color, or texture, luminance, or motion.	bright light sources such as lighting and reflections! and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the	\checkmark
Vegetation:	1 Total:	6		study subject interferes noticeably with views of nearby landscape/seascape elements.	
			Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by turning one's head more than 45" from a direct view of the object. The object/phenomenon is the major focus of visual attention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, color, and texture, bright light sources and moving objects associated with the study subject.	
7. Comments:			view dominance.	may contribute substantially to drawing viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.	
Compatibility: The light color of the turbines at this viewing	distance mitigates the Project's visual impacts.				
Scale: There is no foreground or midground vertical object distance that the turbine scale at 14.34-miles to the nearest					
Spatial Dominance: The light color of the turbines reduces	the potential visual dominance.		9. Comments:		
			N/A		

Visual Impact Assessment		Visual Impact Assessment	Personnel:_KV
'	W		KOP: GT01 Forsythe NWR
Date: 02-23-2021	Personnel: KV	Principles of composition, continued	d: Date: <u>02-23-2021</u>
Landscape Similarity Zone: Salt Marsh	Key Observation Point Name/Number: <u>GT01 Forsythe NV</u>		
Key Observation Point (KOP) Familiariza	ition	adverse effect on scenic quality.	ing within a view can create visual clutter (disrupting the natural order), which generally has an
Landscape/seascape, viewer, and related factors to be considered to the considered factors and related factors to be considered factors.	ered during evaluation of the KOP are outlined below.		contribute to visual clutter?
	incorporated into the scoring and comments on the VIA assessment form observations and should be completed quickly, taking no more than 5 min	"	ct the view? the development on the horizon adds a mottled cluttered span inserted into an otherwise ordered natural environment.
General elements of formal visual analysis to be cons	sidered include:	Motion of existing and proposed elements	in a view can attract viewer attention.
•	nent of objects and voids in the landscape that can be categorized by	Does this view contain elements in m	otion that are likely to attract viewer attention? 🗹 Yes 🗆 No
their spatial arrangement. Basic landscape compone especially those that are distinctly focal, enclosed, de	ents include vegetation, landform, water, and sky. Some compositions, etailed, or feature-oriented, are more vulnerable to modifications than	(If the answer is yes, Note these elem	nents in rating form comments)
panoramic, canopied, or ephemeral landscapes.	major compositional alaments that define the personnel visual sharester	Factors affecting visual impact:	
of a landscape/seascape, as well as a project. Form	major compositional elements that define the perceived visual character refers to the shape of an object that appears unified, often defined by	5. Duration of View	
	the path the eye follows when perceiving abrupt changes in form, color, masses in the landscape/seascape. Texture, in this context, refers to	Some views are seen as quick glimpses	while driving along a roadway or hiking a trail, while others are seen for a more prolonged per ct, especially from significant aesthetic resources, have the greatest potential for visual impact
the visual surface characteristics of an object. The ex	ktent to which form, line, color, and texture of a project are similar to or adscape/seascape is a primary determinant of visual impact.	The duration of this view is: Sho	
 Spatial Dominance: The degree to which an object and thus dominates seascape composition from a sp 	or landscape/seascape element occupies space in a landscape/seascap pecific viewpoint.	The frequency of this view is: 🔽 F	Repeated Occasional
	iect in relation to its surroundings can define the compatibility of its scale cale is likely to vary depending on the distance from which it is seen and	Clouds, precipitation, haze, and other am	ablent weather-related conditions can affect the visibility of an object or objects. These conditional of project components with landscape/seascape elements and the design elements of form
Principles of composition to be considered inclu	de:	Conditions in this view can be descri	ibed as: ☑ Clear ☐ Partly Cloudy ☐ Overcast ☐ Hazy
1. Focal Point		Conditions that may increase/decrea	se visibility could be described as: overcast/hazy could decrease visibility
physical characteristics. Focal points often contrast tend to draw a viewer's attention. Examples include	ealures stand out and are particularly noticeable as a result of their with their surroundings in color, form, scale, or texture, and therefore prominent trees, mountains, or cultural features, such as a distinctive of be sited so as to obscure or compete with important existing focal point	ts Front lighting refers to a situation where t viewed. Side lighting refers to a viewing s	in which sunlight is coming toward the observer from behind a feature or elements in a scene. he light source is coming from behind the observer and falling directly upon the area being situation in which sunlight is coming from overhead or the side of the observer to a feature or an have a significant effect on the visibility and contrast of landscape and project elements.
Does this view contain a focal point? <a> Yes	□ No		,
If yes, briefly identify/describe: as the central roads	way curves to the right, just beyond the left branching roadway.	The relevant lighting condition can be des	scribed as: Dacklit frontlit side-lit
by displaying traditional or logical patterns of land us this natural order may detract from scenic quality. W	order determined by natural processes. Cultural landscapes exhibit order seldevelopment. Elements in the landscape that are inconsistent with fhen a new project is introduced to the landscape, intactness and order ines, colors, and textures existing in the surrounding built or natural	8. Scenic or Recreational Value Designation as a scenic or recreational re	esource is an indication that there is broad public consensus on the value of that particular arce that contribute to its scenic or recreational value provide guidance in evaluating a project:
Does this view contain a natural order? Z Ye If yes, how does the natural order affect the view		Would viewers consider this location a va	alued scenic or recreational resource? 🗹 Yes 🔲 No
	ame and the neutral colors of the roadway, both echoed in the marsh land and offset by of texture circuites the eye throughout the view. the developed horizon adds contrast.	How would the site be used for scenic or	recreational enjoyment? This NWR is often used for bird watching, walking/hiking, and general enjoyment of nature.
ATLANTIC SHORES		1 of 6 ATLANTIC SHORES	

Visual Impact Assessment	Personnel: KV	
·	KOP: GT01 Forsythe	NWR
Existing Conditions	Date: 02-23-2021	
In the existing view rate the aesthetic quality/sensitivity of each resource on a score of '	1 to 9 (1 liability to 9 distinct)	
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwis be a whole number score.	se, rating should	
		Score
	Water Resources:	8
	Landform:	8
	Vegetation:	8
	Land Use:	7
	User Activity:	6
Exis	ting Conditions #1 Total:	37
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high d	ensity)	
Special Condition A. Does this zone contain any scenic, culture	ral, or historic landmarks?	3
Special Condition B. Are there other aesthetic elements	that add to this resource?	1
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter	er/pollution)	
Special Condition C. Is this zone free for	rom pollution and/or litter?	3
Existing Conditions #2 To	tal (Sum 2A through 2C)	7
Existing Conditions Grand Total (Su 3. Comments:	m #1 Total and #2 Total)	44
movement altracting viewer attention: tall grass types in the breeze, rippling water, birds. This view from within the Forsythe NWR allows for access to an expanse of primarily natural wetland: access. The deep wetland pools within the view are filled by the bay, partially visible in the distance. In antural environment that supports a large and ecosystem. The deep pools repealing across the view Landform is primarily flat with gentle sloping as it transitions to water and back again. Flat landform is wetlands, sporadically appearing and disappearing bellow water is available for close viewing at limit the view with a variety in chroma and value of the green and neutral hues accenting the blue water ar view adding small vertical elements. Land use is primarily centered on preservation and light recreation on the horizon and provides a background disparate to the purpose of this location. Similarly, user ac area, is primarily contained within vehicles. The linear graved drive passing through the NWR is for us conflict with one another and there are few dedicated parking areas or walking trails. While visiting thi drives through this location to enjoy the natural setting and bird life, but never leave their cars.	The water resources in this view represent a lappear clean and pristine in quality making it common in this region but a view of landform of locations. Vegetation provides a soft textured sky. Shrub/scrub vegetation appears dotes no, however the distant community developing with which clean focused on the enjoyment of e by bike, walking, or driving. However, these	unique and nem distinctive. In holding re throughout d through the cent sits heavy this natural e uses often

ATLANTIC SHORES

offshore wind		
Visual Impact Assessment	Personnel: KV	
Visual impact /133c33ment	KOP: GT01 Forsytt	ne NWR
Proposed Conditions	Date: 02-23-2021	
1. With the proposed project in place, rate the aesthetic quality/sensitivity of each resource.	ce on a score of 1 to 9 (1 liability to 9 d	listinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Sco
	Water Resources:	7
	Landform:	6
	Vegetation:	7
	Land Use:	6
	User Activity:	5
 Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct) Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can be adjusted up or down based upon the Proposed Conditions view. 	Special Conditions:	7
	Total.	38
3. Comments:		
The front-lil view of WTGs at this location are softened by their white appearance which provides a li apparent height and quantily of the turbines is large. The deep blue water resources hold the primary water resource keep the view primarily intact. Vegetation in the view is similarly maintained at a distinctivity holds the viewers gaze. White the turbines also so the bind the Indorform the vertical nature o horizontal nature of the landform. Land use, once primarily focused on viewing the natural environm strong emphasis on viewing the turbines. In addition viewing from the tower height places the turbine previous bent toward development becomes louder and more orbivous. Land use, while still founded the loss of distant open views. Similarly, user activity centered on enjoyment of the serene nature view.	y focus of a viewer. Moreover, the turbines nct visual quality as the the texture and vari if the turbines serves to further flatten and h sent despite the distant community develops as looking back toward viewers at eye/nace on preservation begins to take on a feeling	ety in value a ighlight the ment now has lle level. The of impact fro

Personnel: KV Visual Impact Assessment KOP: GT01 Forsythe NWR Date: 02-23-2021 Proposed Conditions - Compatibility and Contrast Rating Note: If an element is not present in the view the score should be a 0 (no impact), otherwise. rating should be a whole number score 4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible) Water Resources: Land Use: 3 3 User Activity Landform: 3 2 Vegetation: Total: 3 14 5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) Water Resources Land Use: 3 3 Landform 3 User Activity: 3 Vegetation: 3 Total: 15 6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominant) Water Resources I and I Ise. 2 Landform User Activity: 2 Vegetation: Total 10

7 Comments:

WTG in this view are not compatible with Water Resources. Landform, vegetation, or land use. However they may be somewhat compatible with user activity primarily because so many users do not get out of their vehicle and locations to do so are very limited. Similarly, the scale contrast is severe as the WTG lo

ever, the spatial dominance is co-dominant due to the fact that views of the WTG are completely contained within the view frame and WTG would not be visible when viewers direct their gaze to the left or right

ATLANTIC SHORES

Visual Impact Assessment

Visual	Impact	Assessment
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Personnel: KV

KOP: GT01 Forsythe NWR

Date: 02-23-2021

Proposed Conditions

8. Visibility Threshold Level - Check the box next to the description that most closely describes the visual prominence of the Project from the selected KOP

Visibility Rating	Description	
Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more loosely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	
Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	✓
Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so shongly that it is a major flocus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to storing contrasts in form, line, color, and texture, bright light sources such as lighting and reflections and moving objects associated with the study subject may contribute substantially of ordwing viewer attention. The visual prominence of the study subject Interferes noticeably with views of nearby landscape/seascape elements.	
Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by turning one's head more than 45° from a direct view of the object. The object/phenomenon is the major fous of visual attention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, color, and texture, bright light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject defracts noticeably from views of other landscape/seascape elements.	

9. Comments:

WTG are clearly visible on the horizon and are likely to strongly attract viewer attention even though the white coloring lowers contrast. In addition the expanse captured in one frame allows viewers an ability to turn their gaze away from the array

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Date: March 06, 2021	

Personnel· Steve Breitzka

Landscape Similarity Zone: Salt Marsh Key Observation Point Name/Number: GT01

Key Observation Point (KOP) Familiarization

Landscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.

The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form (proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes)

General elements of formal visual analysis to be considered include:

- Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or ephemeral landscapes.
- · Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character From, time, color, and returner insect a first ordinary compositional elements that ceiting unless that an advantage of a landscape/seascape, as well as a project. From refers to the shape of an object that appears unified, often defined by edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.
- Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint.
- Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale
 within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and

Principles of composition to be considered include:

1. Focal Point

Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape.

Does this view contain a focal point? \square Yes ${\color{red} \,}{\color{blue} \,}{\color{blue}$

If yes, briefly identify/describe: There are two distant water towers but they are not focal points

2. Order

Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.

Does this view contain a natural order?
Yes
No If yes, how does the natural order affect the view'

Visual I	Impact	Assessment
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Personnel: Steve Breitzka
KOP: <i>GT01</i>
Date: March 06, 2021

Principles of composition, continued: 3. Visual Clutter

Numerous unrelated built elements occurring within a view can create visual clutter (disrupting the natural order), which generally has an adverse effect on scenic quality.

Does this view contain elements that contribute to visual clutter?
Ves
No

If yes, how does the visual clutter affect the view?

4. Movement

Motion of existing and proposed elements in a view can attract viewer attention

Does this view contain elements in motion that are likely to attract viewer attention? $\hfill\square$ Yes \hfill No

(If the answer is yes, Note these elements in rating form comments)

Factors affecting visual impact:

5. Duration of View

Some views are seen as quick glimpses while driving along a roadway or hiking a trail, while others are seen for a more prolonged period of time. Longer duration views of a project, especially from significant aesthetic resources, have the greatest potential for visual impact.

The duration of this view is: Short Term/Fleeting Long-term

The frequency of this view is:

Repeated
Occasional

6. Atmospheric Conditions

Clouds, precipitation, haze, and other ambient weather-related conditions can affect the visibility of an object or objects. These conditions can greatly impact the visibility and contrast of project components with landscape/seascape elements and the design elements of form,

Conditions in this view can be described as: <a> Clear <a> Partly Cloudy <a> Overcast <a> Hazy

Conditions that may increase/decrease visibility could be described as: Perfectly clear day free of clouds and haze

7. Lighting Direction

Assembly to the second of the elements in a scene. Lighting direction can have a significant effect on the visibility and contrast of landscape and project elements.

The relevant lighting condition can be described as:	backlit	Ш	frontlit	✓	side-li
--	---------	---	----------	---	---------

8. Scenic or Recreational Value

Designation as a scenic or recreational resource is an indication that there is broad public consensus on the value of that particular resource. The characteristics of the resource that contribute to its scenic or recreational value provide guidance in evaluating a project's visual impact on that resource.

Would viewers consider this location a valued scenic or recreational resource?

Yes
No

How would the site be used for scenic or recreational enjoyment? Expansive view over the salt marsh from a meandering narrow gravel



Visual Impact Assessment	rsonnel: Steve Breitzka		Visual Impact Assessment	Personnel: Steve Breitzka	·
	KOP: <u><i>GT01</i></u>			KOP: <u><i>GT01</i></u>	
Existing Conditions	Date: March 06, 2021		Proposed Conditions	Date: March 06, 2021	<u> </u>
1. In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1 liabi	ility to 9 distinct)		With the proposed project in place, rate the aesthetic quality/sensitivity of each resou	ırce on a score of 1 to 9 (1 liability to 9 dis	tinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating shou be a whole number score.	ould		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Score
		Score		Water Resources:	5
Wa	ater Resources:	6		Landform:	7
	Landform:	7		Vegetation:	6
	Vegetation:	7		Land Use:	5
	Land Use:	7		User Activity:	5
	User Activity:	7			
Existing Condi	litions #1 Total:	34	2. Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct)		
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high density)	'		Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	
Special Condition A. Does this zone contain any scenic, cultural, or history	oric landmarks?	1			3
Special Condition B. Are there other aesthetic elements that add to	o this resource?	1		Total:	31
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/pollution)					<u> </u>
Special Condition C. Is this zone free from polluti	tion and/or litter?	3	3. Comments:		
Existing Conditions #2 Total (Sum 2	2A through 2C)	5	The horizon is lined, edge to edge in this scene, with proposed turbines. They appear as bright wh distant housing development. The turbines give an edge to the view, reaching into the sky further t		
Existing Conditions Grand Total (Sum #1 Total	al and #2 Total)	39	appearance since the turbines are nearly aligned, giving the impression on a wider structure.		
3. Comments: This view presents a unique environment where people are allowed access through the marsh. The beige gravel re disappearing on a straightway into the distance along the edge of the marsh.	oad snakes through the vegetalie	ion			
ATLANTIC SHORES offshore wind		3 of 6	ATLANTIC SHORES offshore wind		4 of 6
Visual Impact Assessment Per	rsonnel: Steve Breitzka KOP: GT01		Visual Impact Assessment	Personnel: <u>Steve Breitzka</u> KOP: <u>G701</u>	

Visual Impact Assess	ment Po	ersonnel: <u>Steve Breitzka</u> KOP: GT01	Visual Impact Assessi	ment Personnel <u>: Steve Breitzka</u> KOP: G701
	bility and Contrast Rating on element is not present in the view the score should be a whole number score.	Date: March 06, 2021 be a 0 (no impact), otherwise,	Proposed Conditions 8. Visibility Threshold Level - Check th the selected KOP.	Date: <u>March 06, 2021</u> e box next to the description that most closely describes the visual prominence of the Project from
Rate the compatibility of the proposed project o	n a scale of 1 to 3 (1 compatible to 3 not compatible	(6)	Visibility Rating	Description
Water Resources:	3 Land Use:	2	Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.
Landform: Vegetation:	3 User Activity: Total:	13	Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/ohenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.
Rate scale contrast of the proposed project on a Water Resources:			Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/ghenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or confrast to compete with major landscape/ seascape elements.
Landform: Vegetation:	3 User Activity: 3 Total:	3 3 15	Visibility level 4. Plainty visible, so could not be missed by casual observers, but does not strongly affact visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.
Rate spatial dominance of the proposed project Water Resources: Landform: Vegetation:	2 Land Use: 2 User Activity: 2 Total:	2 2 10	Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	
7. Comments: The turbines add a rigid, industrial edge to an organic lat foreground. The turbines are bright white against the pa	dscape. The vegetalion is low and spread across the m		Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in signeral direction. Strong contracts in form, line, color, texture, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by furning one's head more than 45° from a direct view of the object. The object/phenomenon is the major focus of visual attention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, color, and return, right light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.
			9. Comments:	

		Visual Impact Assessment	Personnel: Jocelyn Gavitt
Visual Impact Assessment		Visual impact Assessment	KOP: LAT01 Edwin B Forsyd
Date: 2/16/21 Personnel: Jocelyn Gavi	itt	Principles of composition, continued:	Date: 2/16/21
Landscape Similarity Zone: <u>Dredged Lagoon/Salt Marsh</u> Key Observation Point Name/Number: <u>LA701 Edwin</u>	n B Forsy <u>éi</u>	3. Visual Clutter	Date. 210/21
Key Observation Point (KOP) Familiarization		Numerous unrelated built elements occurring within a view can create v adverse effect on scenic quality.	
Landscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.		Does this view contain elements that contribute to visual clutter?	Yes V No
The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessmen		If yes, how does the visual clutter affect the view?	
(proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than	5 minutes)	4. Movement	
General elements of formal visual analysis to be considered include:		Motion of existing and proposed elements in a view can attract viewer a	ttention.
Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by		Does this view contain elements in motion that are likely to attract v	viewer attention? Yes V No
their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some composition especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications the panoramic, canopied, or ephemeral landscapes.		(If the answer is yes, Note these elements in rating form comments	5)
Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual cha	racter	Factors affecting visual impact:	
of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined	by	5. Duration of View	
edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers	to	Some views are seen as quick glimpses while driving along a roadway of time. Longer duration views of a project, especially from significant a	
the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.	o or	The duration of this view is: Short Term/Fleeting Long-te	erm
 Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/sea and thus dominates seascape composition from a specific viewpoint. 	ascape	The frequency of this view is: <a> Repeated <a> Occasional	
 Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen other contextual factors. 		 Atmospheric Conditions Clouds, precipitation, haze, and other ambient weather-related condition can greatly impact the visibility and contrast of project components with line, color, texture, and scale. 	
Principles of composition to be considered include:		Conditions in this view can be described as: ☑ Clear ☐ Partly	Cloudy Overcast A Hazy
1. Focal Point		Conditions that may increase/decrease visibility could be describe	d as: Conditions are generally clear, but long term visibility seems hazy. Moisture in the air could impact visibility.
Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctilighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal in the landscape/seascape. Does this view contain a focal point? V Yes No	re ive	7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming too Front lighting refers to a situation where the light source is coming fron viewed. Side lighting refers to a viewing situation in which sunlight is or elements in a scene, Lighting direction can have a significant effect on	ward the observer from behind a feature or elements in a scene. n behind the observer and falling directly upon the area being oming from overhead or the side of the observer to a feature or
If yes, briefly identify/describe: Large bird's nest on vertical post in center of view.			
1 yes, briefly identifyidescribe: — 5		The relevant lighting condition can be described as: backlit	frontlit 🗹 side-lit
Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent wi this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and o are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.	rith order	Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that the resource. The characteristics of the resource that contribute to its sceni visual impact on that resource.	nere is broad public consensus on the value of that particular ic or recreational value provide guidance in evaluating a project's
Does this view contain a natural order? ☑ Yes ☐ No If yes, how does the natural order affect the view?		Would viewers consider this location a valued scenic or recreational re-	source? 🗹 Yes 🗆 No
There is a layering of salt marsh in the foreground, horizontal lines in the midground consisting of open water and some distant land form, a open sky above the horizon. There is textural complexity in the foreground with the salt marsh plants and water.	and the	How would the site be used for scenic or recreational enjoyment? Local L	cal residents will enjoy this view on a regular basis
ATLANTIC SHORES offshore wind	1 of 6	ATLANTIC SHORES offshore wind	2 ơ

ATLANTIC SHORES offshore wind		1 of 6	ATLANTIC SHORES offshore wind		2 of (
Visual Impact Assessment	Personnel: <u>Jocelyn Ga</u> KOP: <u>LAT01 Edw</u>		Visual Impact Assessment	Personnel: <u>Jocelyn Gavitt</u> KOP: <u>LAT01 Edwin I</u>	
Existing Conditions	Date: <u>2/16/21</u>		Proposed Conditions	Date: 2/16/21	
1. In the existing view rate the aesthetic quality/sensit	tivity of each resource on a score of 1 to 9 (1 liability to 9 distinct)		With the proposed project in place, rate the aesthetic quality/sensitivity of	each resource on a score of 1 to 9 (1 liability to 9 dis	stinct)
Note: If an element is not present in the view the score st be a whole number score.	nould be 4.5 of 9.0 (no impact), otherwise, rating should		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no im otherwise, rating should be a whole number score.	pact),	Score
		Score		Water Resources:	6
	Water Resources:	8		Landform:	6
	Landform:	8		Vegetation:	6
	Vegetation:	8		Land Use:	4
	Land Use:	6		User Activity:	5
	User Activity:	6			
	Existing Conditions #1 Total:	36	2. Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 dis	•	
2. Respond to each question below using a score of 0	0 to 3 (0 not present to 3 being high density)		Note: Special Conditions score is taken directly from Existing Conditions #2 Total a be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	4
Special Condition A. Does this	zone contain any scenic, cultural, or historic landmarks?	2			
Special Condition B. Are t	here other aesthetic elements that add to this resource?	2		Total:	31
Respond to each question below using a score of 0 to	o 3 (0 littered/polluted to 3 free of litter/pollution)				
Special	Condition C. Is this zone free from pollution and/or litter?	2	3. Comments:		
	Existing Conditions #2 Total (Sum 2A through 2C)	6	The proposed turbines are visible in the distant open water. Due to the large quantity The existing landform elements mask their impact in a portion of the view. These turb the bird nest in the foreground.		
3. Comments:	g Conditions Grand Total (Sum #1 Total and #2 Total)	42			
	amount of vegetative texture balanced with pockets of open water. There is a fo	cal point that			

Personnel: Jocelyn Gavitt Visual Impact Assessment KOP: LAT01 Edwin B Forsyd Date: 2/16/21 **Proposed Conditions - Compatibility and Contrast Rating** Note: If an element is not present in the view the score should be a 0 (no impact), otherwise, rating should be a whole number score. 4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible) Land Use: Water Resources: 2 2 Landform: 2 User Activity: 2 Total: Vegetation 10 5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) Water Resources: Land Use: Landform 2 User Activity: 2 Vegetation: 2 Total: 9 6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominant) Water Resources Land Use: User Activity: Landform 2 Vegetation: Total: 2 9 7 Comments:

The turbines are visible in the distance and due to the long nature of the view in this location, viewers are likely to focus on the field of turbines to a level that

ATLANTIC SHORES

Visual Impact Assessment

Personnel: Jocelyn Gavitt KOP: LAT01 Edwin B Forsyci

Date: 2/16/21

Proposed Conditions

8. Visibility Threshold Level - Check the box next to the description that most closely describes the visual prominence of the Project from the selected KOP

Visibility Rating	Description	
Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	
/isibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or forminate the view because of its apparent size, for views in the general direction of he study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape-leaescape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	V
/isibility level 5. Strongly attracts the visual attention of views in the general direction of he study subject. Attention may be drawn by the strong contrast in form, line, color, or exture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention inmediately and tending to hold that attention. In addition to strong contrasts in form, line, color, and texture, bright light sources such as lighting and reflections! and moving objects associated with the study subject may contribute substantially of drawing viewer attention. The visual promisence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	
/isibility level 6. Dominates the view secause the study subject fills most of the issual field for views in its general direction. Strong contrasts in form, line, color, texture, uninance, or motion may contribute to tiew dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual flaid, and views of it cannot be avoided except by turning one's head more than 45° from a direct view of the object. The object/phenomenon is the magin focus of visual direction, and its anient view of the object. The object/phenomenon is the magin focus of visual direction, and its line, object, and tenture, they fit shift values and moving objects associated with the study subject may contribute substantially to foreway lever attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.	

ATLANTIC SHORES

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The proposed conditions are noticeable but not overwhelming. There could be a much higher level of visibility if atmospheric conditions were clearer or lighting

Visual Impact Assessment

Date: 17 February 2021

Personnel: KAC

Landscape Similarity Zone: <u>Dredged Lagoon/Salt Marsh</u>

Key Observation Point Name/Number: <u>LAT01 EBF NWR</u>

Key Observation Point (KOP) Familiarization

Landscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.

The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form (proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes)

General elements of formal visual analysis to be considered include:

- Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or ephemeral landscapes.
- · Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character From, time, color, and returner insert enter the color major compositional elements that ceiting the ceiting of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.
- Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint.
- Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors.

Principles of composition to be considered include:

1. Focal Point

Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape.

Does this view contain a focal point? $\ensuremath{\mbox{\ensuremath{\square}}}$ Yes $\ensuremath{\mbox{\ensuremath{\square}}}$ No

If yes, briefly identify/describe: Nesting bird platform and pink-tinged horizon line

2. Order

Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land used/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.

Does this view contain a natural order? Yes No If yes, how does the natural order affect the view

Marsh grass, still water channels, ocean, nesting platform, and horizon line; flat landscape equally divided between the grass marsh and sky punctuated by the nesting platform.

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Visual Im	ipact Asse	essmen
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Personnel: KAC	
KOP: LATO1 EBF NWR	_
Date: 17 February 2021	

Principles of composition, continued: 3. Visual Clutter

Numerous unrelated built elements occurring within a view can create visual clutter (disrupting the natural order), which generally has an adverse effect on scenic quality.
Does this view contain elements that contribute to visual clutter? Ves Do

If yes, how does the visual clutter affect the view? Nesting platform is a strong vertical element in the view

4. Movement

Motion of existing and proposed elements in a view can attract viewer attention

Does this view contain elements in motion that are likely to attract viewer attention? $\hfill\square$ Yes \hfill No

(If the answer is yes, Note these elements in rating form comments)

Factors affecting visual impact:

5. Duration of View

Some views are seen as quick glimpses while driving along a roadway or hiking a trail, while others are seen for a more prolonged period of time. Longer duration views of a project, especially from significant aesthetic resources, have the greatest potential for visual impact.

The duration of this view is: Short Term/Fleeting Long-term

The frequency of this view is:

Repeated
Occasional

6. Atmospheric Conditions

Clouds, precipitation, haze, and other ambient weather-related conditions can affect the visibility of an object or objects. These conditions can greatly impact the visibility and contrast of project components with landscape/seascape elements and the design elements of form,

Conditions in this view can be described as: \square Clear olimits Partly Cloudy \square Overcast olimits Hazy

Conditions that may increase/decrease visibility could be described as: Elements on the horizon would have greater definition on a

7. Lighting Direction

Assembly the section of the section elements in a scene. Lighting direction can have a significant effect on the visibility and contrast of landscape and project elements.

The relevant lighting condition can be described as:	backlit	Ш	frontlit	✓	side-lit
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8. Scenic or Recreational Value

Designation as a scenic or recreational resource is an indication that there is broad public consensus on the value of that particular resource. The characteristics of the resource that contribute to its scenic or recreational value provide guidance in evaluating a project's visual impact on that resource.

Would viewers consider this location a valued scenic or recreational resource?

Yes
No

How would the site be used for scenic or recreational enjoyment? Birding and Wildlife Management

Visual Impact Assessment	Personnel: KAC		Visual Impact Assessment	Personnel: KAC	
· · · · · · · · · · · · · · · · · · ·	KOP: LATO1 EBF N	IWR	Visual impact //sscssment	KOP: LATO1 EBF NV	WR
Existing Conditions	Date: 17 February 2	2021	Proposed Conditions	Date: <u>17 February 20</u>	021
In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1)	(1 liability to 9 distinct)		With the proposed project in place, rate the aesthetic quality/sensitivity of each res	source on a score of 1 to 9 (1 liability to 9 dis	stinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating be a whole number score.	ng should		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Score
		Score		Water Resources:	6
	Water Resources:	7		Landform:	6
	Landform:	7		Vegetation:	7
	Vegetation:	8		Land Use:	7
	Land Use:	7		User Activity:	6
	User Activity:	6			
Existing C	Conditions #1 Total:	35	Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct)		
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high density)	Ò		Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	
Special Condition A. Does this zone contain any scenic, cultural, or	r historic landmarks?	1			5
Special Condition B. Are there other aesthetic elements that a	add to this resource?	2		Total:	37
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/pollut	ution)	-			37
Special Condition C. Is this zone free from po	oollution and/or litter?	2	3. Comments:		
Existing Conditions #2 Total (Su	Sum 2A through 2C)	5	With the Project in place, the viewer's attention is initially stopped and brought to the foreground the stacked rows of furbines in the background view, which seem to grow out of the landmass to viewer would observe the bisected rotos partially obscured by the low lanying land mass, you.	to the left and diminish to the right. Looking further	er left, the
Existing Conditions Grand Total (Sum #1 3. Comments:	Total and #2 Total)	40	nearest turbine, the wind farm appears to be an extension of the background land mass and ma the presence of the turbines cannot be ignored and they visually compete with the visual quality		
Cultural Historic: Edwin B. Forsythe Wildlife Refuge.					
Aesthelic: Vibrant, highly textural grassy marshland.					
Litter: Limited visitor litter.					
Summary of View: The low marsh grass is highly textured in various shades of green and russet orange that a reflection of the blue sky in the still water channel interwoven into the marshland. The blended colors of the sk grass blades. The nesting lapform directs the viewer's attention and purclustes the flat landscape with the NWR traveling to this view to observe the water foul The flat landform in the background view is occasions water towers, cell towers, and other elements that float on the hazy horizon.	sky also contrast the highly articulate nority and purpose. It is easy to imag	ed strokes of the gine visitors to			
ATLANTIC SHORES offshore wind		3 of 6	ATLANTIC SHORES offshore wind		4 of (
Visual Impact Assessment	Personnel: KAC	······	Visual Impact Assessment	Personnel: KAC	A/D

Visual Impact Assessmen	n † Per:	sonnel: KAC	Visual Impact Assessr	ment Personnel: KAC
Tiodd: impaot / tooocomen		KOP: <u>LAT01 EBF NWR</u>	•	KOP: LATO1 EBF NWR
Proposed Conditions - Compatibility a	and Contrast Rating	Date: <u>17 February 2021</u>	Proposed Conditions	Date: <u>17 February 2021</u>
	nt is not present in the view the score should be whole number score.	a O (no impact), otherwise,	Visibility Threshold Level - Check the the selected KOP.	e box next to the description that most closely describes the visual prominence of the Project (
Rate the compatibility of the proposed project on a scale of the project on the project of the proposed project on the project of the project on the project of the project on the project of the project of the project of the project of the project on the project of t	of 1 to 3 (1 compatible to 3 not compatible)		Visibility Rating	Description
. ,	2 Land Use:	1	Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.
Landform: 2 Vegetation: 1		8	Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more obsely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.
Rate scale contrast of the proposed project on a scale of Water Resources:		1	Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual obseners, but without sufficient size or contrast to compete with major landscape/ seascape elements.
Landform: 2 Vegetation: 1	2 User Activity: 1 Total:	2 8	Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly affact visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.
	Land Use: User Activity:	dominant) 1 2 8	Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to lot diff at attention. In addition to strong contrasts in form, line, color, and texture, bright light sources such as lighting and reflectional and moving objects associated with the study subject may contribute substrainfally of warring lever learned. The visual promisence of the study subject interferes noticeably with views of nearby landscape/seascape elements.
7. Comments: Compatibility: The background viewing distance to the wind farm so	softens the compalibility score of the Project since	the turbines are initially perceived to be	Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strang contrasts in form, line, color, testure, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it acmost he envided occupit by huming one's head more than 45° from a direct view of the object. The object/phenomenon is he major focus of visual attention, and its large apparent size is a major factor in its view dominance. In addition to six contrasts in form, line, color, and feature, bright light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject defracts noticeably from views of other landscape/seascape elements.
"small", however, when observed with more detail, the stacked mas land mass creating an odd optic could be considered out of place in Scale: The wind farm on the background horizon has enough scale movement and magnitude of the industrial installation 32.18-miles a	n this naturalized view. e and mass to draw the viewers attention from the	e element of immediate interest to the		
the site.		Josphilas	9. Comments:	
Spatial Dominance: Before the Project's installation, the viewer's att co-dominant with the Project given the scale and magnitude that it h		ments in this, which is modified to be	1963	



		Visual Impact Assessment	Personnel: KV
Visual Impact Assessment		Visual impact Assessment	KOP: LAT01 Forsythe NWR
Date: <u>02-17-2021</u> Personnel: <u>KV</u>		Principles of composition, continued:	Date: 02-17-2021
andscape Similarity Zone: <u>Dredged Lagoon, Salt Mars</u> Key Observation Point Name/Number: <u>LAT01 Forsy</u>	rthe NWR	3. Visual Clutter	Dutc. <u>02 77 2027</u>
Key Observation Point (KOP) Familiarization		Numerous unrelated built elements occurring within a view can create vis adverse effect on scenic quality.	
andscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.		Does this view contain elements that contribute to visual clutter?	Yes 🗹 No
The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessme		If yes, how does the visual clutter affect the view?	
proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more that	n 5 minutes)	4. Movement	
General elements of formal visual analysis to be considered include:		Motion of existing and proposed elements in a view can attract viewer att	
 Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some composition. 		Does this view contain elements in motion that are likely to attract view	ewer attention? 🗹 Yes 🗹 No
especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications the panoramic, canopied, or ephemeral landscapes.		(If the answer is yes, Note these elements in rating form comments)	
Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual charge.	aracter	Factors affecting visual impact:	
of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form,	by color.	Duration of View Some views are seen as quick glimpses while driving along a roadway of the control of	or billing a trail, while others are seen for a more prolonged paried
or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to	s to	of time. Longer duration views of a project, especially from significant ac	
contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.	0 01	The duration of this view is: Abort Term/Fleeting Long-ter	rm
 Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/se and thus dominates seascape composition from a specific viewpoint. 	eascape	The frequency of this view is: 🗹 Repeated 🗹 Occasional	
Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its		6. Atmospheric Conditions	
within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is see other contextual factors.	n and	Clouds, precipitation, haze, and other ambient weather-related condition can greatly impact the visibility and contrast of project components with line, color, texture, and scale.	
Principles of composition to be considered include:		Conditions in this view can be described as: Clear Partly	Cloudy Overcast Hazy
1. Focal Point		Conditions that may increase/decrease visibility could be described	as: clear skies could increase visibility, or hazy/overcast decrease
Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their		7. Lighting Direction	
physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefored to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinct	tive	Backlighting refers to a viewing situation in which sunlight is coming tow Front lighting refers to a situation where the light source is coming from	
lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing foca in the landscape/seascape.	al points	viewed. Side lighting refers to a viewing situation in which sunlight is con elements in a scene. Lighting direction can have a significant effect on the	ming from overhead or the side of the observer to a feature or
Does this view contain a focal point? ☑ Yes ☐ No		elements in a scene. Eighning unection can have a significant election of	are visibility and contrast of fandscape and project elements.
If yes, briefly identify/describe: he Osprey nesting box		The relevant lighting condition can be described as: 🗸 backlit 🗖	frontlit Side-lit
2. Order			
Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibitely displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent via		8. Scenic or Recreational Value	
this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and of are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural	order	Designation as a scenic or recreational resource is an indication that the resource. The characteristics of the resource that contribute to its scenic	ere is broad public consensus on the value of that particular c or recreational value provide guidance in evaluating a project's
are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.	"	visual impact on that resource.	
Does this view contain a natural order?		Would viewers consider this location a valued scenic or recreational res	ource? ☑ Yes ☐ No
The natural order within this view provides repetition in the texture, line, and color that draws the eye from dark grassy banks and through water textures then repeated by land on the distant horizon and the stridation of colors in the sunrise.	glassy		narily boating, viewing, and birdwatching, but the housing
			elopment just out of view likely brings other variety of recreation.
ATLANTIC SHORES	1 of 6	ATLANTIC SHORES	2 of 6

Visual Impact Assessment	Personnel: KV	Personnel: KV		
•	KOP: LATO1 Forsy	the NWR		
Existing Conditions	Date: <u>02-17-2021</u>			
1. In the existing view rate the aesthetic quality/sensitivity of each resource on a sco	re of 1 to 9 (1 liability to 9 distinct)			
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), of be a whole number score.	herwise, rating should			
		Score		
	Water Resources:	7		
	Landform:	7		
	Vegetation:	7		
	Land Use:	5		
	User Activity:	5		
	Existing Conditions #1 Total:	31		
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being I	nigh density)			
Special Condition A. Does this zone contain any scenic,	cultural, or historic landmarks?	2		
Special Condition B. Are there other aesthetic elem	ents that add to this resource?	1		
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free	of litter/pollution)			
Special Condition C. Is this zone f	ree from pollution and/or litter?	3		
Existing Conditions #	2 Total (Sum 2A through 2C)	6		
Existing Conditions Grand Tota 3. Comments:	I (Sum #1 Total and #2 Total)	37		
Movement altracting viewer attention: while none exists in this view the osprey box suggests the This view looks out across the salt marsh and open bay lowards the barrier islands. The localid developed neighborhood. Both Salt Marsh and Residential Development are common in this are as it transitions to Open Bay are not overly abundant. The interplay between Water Resources Landform, represented by herbacous grassland is interrupted with intermittent channels of wa near-foreground and the background barrier island reaching out over the horizon. Headlands o	on map indicates the view to be at the edge of a or rea, but locations which overlook the Salt Marsh or and Landform are integral components within thi ter in the near-foreground. The bay provides sep	at close proximit is view. aration from the		

near-foreground and the background barrier island reaching out over the horizon. Headlands on the barrier island landform terminate about hallway across the view and visible profits of the barrier island are self units back on the horizon becoming less prominent and allowing the bay water island are self units made to the provided with individual docking. This adds a focus on recreational boating in addition to bird watching as evidenced by inclusion in the Forsythe NWR footprint and foreground nesting box. As with many areas along the bay front, especially those within the Forsythe NWR, this area is inundated by bird activity at various times of day.

Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can be adjusted up or down based upon the Proposed Conditions view. Special Conditions: Total: The turbines set within this scene are at a distance in which they primarily sit low on the horizon. At this location the turbines are viewed as part of the distant background elements. This however interrupts the interplay between the Water Resources and Landform. Where the barrier island once appeared to laper of and recede into the water, water resource is now occupied by man made structures. Stacking of turbines at this location make individual WTG blend into each other and thus appear as larger and more visible masses, however the view of the array appears well organized. Movement of the turbine blades may draw viewer attention, but at this distance the effect will be diminished and will distract minimally from bird viewing or water recreation.

1. With the proposed project in place, rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1 liability to 9 distinct)

Visual Impact Assessment

Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.

2. Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct)

Proposed Conditions

3 of 6

KOP: LATO1 Forsythe NWR Date: 02-17-2021

Water Resources: Landform:

Vegetation:

Land Use:

User Activity:

Score

6

7

5

4

6

34

Personnel: KV Personnel: KV Visual Impact Assessment Visual Impact Assessment KOP: LATO1 Forsythe NWR KOP: LATO1 Forsythe NWR Date: 02-17-2021 Date: 02-17-2021 Proposed Conditions - Compatibility and Contrast Rating **Proposed Conditions** 8. Visibility Threshold Level - Check the box next to the description that most closely describes the visual prominence of the Project from Note: If an element is not present in the view the score should be a 0 (no impact), otherwise. the selected KOP rating should be a whole number score Visibility Rating 4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible) An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period. Visibility level 1. Visible only after exter close viewing; otherwise invisible. Water Resources: Land Use: 3 2 Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers. An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing, it could sometimes be noticed by casual observers: however, most people would not notice it without some active looking. Landform: User Activity 3 2 Total: Vegetation: 2 12 Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers. An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape reasonable admost 5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) Water Resources: Land Use: 1 2 Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention dominate the view because of its appare An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field. Landform: 2 User Activity: 1 Vegetation: 1 Total: size, for views in the general direction of the study subject. 6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominant) An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to strong contrasts in form, line, color, and texture bright light sources such as slighting and reflections and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements. Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion. Water Resources: Land Use. Landform User Activity: Vegetation: Total Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction Strong contrasts in form, line, color, texture luminance, or motion may contribute to view dominance. An object/phenomenon with sirong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided oxoget by turning one's head more than 45° from a direct view of the object. The object/phenomenon is the major focus of visual attention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in from, time, cotor, and fotune; tripfly light courses and moving objects, associated with the study subject defracts noticeably from views of other landscape/seascape elements. 7 Comments: the WTG although distant and small on the horizon are set at the edge of a land mass in a manner that seems to move development from land into the water resources. This detracts from both the Water Resources and the landform. The stacking of furbines creates strong vertical lines that pull the viewer from foreground elements. Despite this the overall scale is moderate and is unlikely to change the way vegetation is viewed or effect the land use or user activity. Similarly, these noticeable turbines sit low on the horizon and are co-dominant with the land and water resources surrounding

ATLANTIC SHORES

Visual Im	pact Assessment

they do not strongly attract visual attention

ATLANTIC SHORES

9. Comments:

Personnel: Steve Breitzka
KOP:_ <i>LAT01</i>
Date: February 18, 2021
Date: repludiy 10, 2021

 \checkmark

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Principles of composition, continued: 3. Visual Clutter

			cenic			0C	cum	ng wi	tnin	a vie	w car	n creat	e visua	II CIUTTE	er (a	isrupting	j tne	natu	irai o	raer),	wnic	n gen	erally	na
Does	s this	view	conta	in el	lemer	ıts ti	hat c	contrib	oute	to vi	sual c	:lutter?		Yes	√	No								
.,																								

The barrier island in the left of the view screens a section of turbines that appear scattered in layout, blade tips above the barrier island may be viewed as part of island development. However just to the right of the visible portion of the barrier Island rows of turbines within the array begin to stack. Each row appears as a large mass on the horizon, individual WTG are not easily defined. This competes with water resources and landform elements as the stacked rows of WTGs fill a space on the horizon otherwise appearing as primarily vacant. However, the turbines at this distance are small enough, and sit low enough on the horizon that

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4. Movement

Motion of existing and proposed elements in a view can attract viewer attention

Does this view contain elements in motion that are likely to attract viewer attention? $\ \square$ Yes $\ \square$ No

(If the answer is yes, Note these elements in rating form comments)

Factors affecting visual impact:

5. Duration of View

Some views are seen as quick glimpses while driving along a roadway or hilking a trail, while others are seen for a more protonged period of time. Longer duration views of a project, especially from significant aesthetic resources, have the greatest potential for visual impact.

The duration of this view is:

Short Term/Fleeting

Long-term

The frequency of this view is: 🗹 Repeated 🗖 Occasional

6. Atmospheric Conditions

Clouds, precipitation, haze, and other ambient weather-related conditions can affect the visibility of an object or objects. These conditions can greatly impact the visibility and contrast of project components with landscape/seascape elements and the design elements of form, line, color, texture, and scale,

Conditions in this view can be described as: \square Clear \square Partly Cloudy \square Overcast olimits Hazy

Conditions that may increase/decrease visibility could be described as: The rosy pink sunrise haze at the horizon blurs the line between water and sky in the distance

7. Lighting Direction

Assembly to the second of the elements in a scene. Lighting direction can have a significant effect on the visibility and contrast of landscape and project elements.

he relevant lighting condition can be described as:	backlit	frontlit	✓	side-lit	

8. Scenic or Recreational Value

ATLANTIC SHORES

Designation as a scenic or recreational resource is an indication that there is broad public consensus on the value of that particular resource. The characteristics of the resource that contribute to its scenic or recreational value provide guidance in evaluating a projects visual impact on that resource.

How would the site be used for scenic or recreational enjoyment? The unobstructed view for the adjacent homes is a tremendous scenic



Date: February 18, 2021

Personnel: Steve Breitzka

Landscape Similarity Zone: <u>Dredged Lagoon/Salt Marsh</u>

Key Observation Point Name/Number: LATO1

Key Observation Point (KOP) Familiarization

Landscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.

The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form (proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes)

General elements of formal visual analysis to be considered include:

- Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or ephemeral landscapes.
- Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.
- Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint.
- Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale
 within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and

Principles of composition to be considered include:

1. Focal Point

Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape.

Does this view contain a focal point? $\ensuremath{\square}$ Yes $\ensuremath{\square}$ No

If yes, briefly identify/describe: There is a man-made nesting post jabbed into the salt march grass landscape

2. Order

Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.

Does this view contain a natural order? Yes No If yes, how does the natural order affect the view'

The salt marsh in the foreground has patches of open water interspersed among large swaths of low lush grasses. This transitions to open water deeper in the view, extending to the horizon



Visual Impact Assessment	Personnel: Steve Breitz	ka	Visual Impact Assessment	Personnel: Steve Breitzka	
·	KOP: <u>LAT01</u>		Visual impact / issues in inter-	KOP: <u>LAT01</u>	
Existing Conditions	Date: February 18,	2021	Proposed Conditions	Date: February 18, 20	021
In the existing view rate the aesthetic quality/sensitivity of each resource on a sc	ore of 1 to 9 (1 liability to 9 distinct)		With the proposed project in place, rate the aesthetic quality/sensitivity of each r	resource on a score of 1 to 9 (1 liability to 9 dist	tinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), on the awhole number score.	therwise, rating should		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Score
		Score		Water Resources:	6
	Water Resources:	7		Landform:	6
	Landform:	6		Vegetation:	8
	Vegetation:	8		Land Use:	7
	Land Use:	8		User Activity:	6
	User Activity:	7			
	Existing Conditions #1 Total:	36	Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct)		
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being	high density)		Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	6
Special Condition A. Does this zone contain any scenic,	cultural, or historic landmarks?	2			0
Special Condition B. Are there other aesthetic elem	nents that add to this resource?	2		Total:	39
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free	of litter/pollution)				37
Special Condition C. Is this zone	free from pollution and/or litter?	3	3. Comments:		
Existing Conditions	#2 Total (Sum 2A through 2C)	7	Following the viewing parameters, the apex of the turbine field appears to be the same elevat view above the horizon. Similar to how the sky melds with the water on the right side of the view above the horizon.	riew, the turbines blend as well, disappearing into the	haze. Rows
Existing Conditions Grand Total 3. Comments:	al (Sum #1 Total and #2 Total)	43	of turbines, central to the view, are more prominent given their spacing and the light direction into the view.	and level. These dubines appear like long bands exi	teriality deeper
The sall marsh foreground has unique coloring and texture. This is a soft landscape with gen open water in the distance blends with the sky at the blurred horizon, sharing color and texture blue with few thin wispy clouds. The primary focal element is a leaning singular wood post with an enormous bird nest percher a couple of awkward branches sticking out of the nest, protruding into the sky.	e. The sky is a rose pink at the horizon turning to	a pale whitish			
ATLANTIC SHORES offshore wind		3 of 6	ATLANTIC SHORES offshore wind		4 of 6
Visual Impact Assessment	Personnel: <u>Steve Breitz</u>	ka	Visual Impact Assessment	Personnel: <u>Steve Breitzka</u> KOP: <u>LAT01</u>	

Visual Impact Assess	ment	Pe	rsonnel: Steve Breitzka KOP: LAT01
Proposed Conditions - Compatil	oility and Contr	ast Rating	Date: <u>February 18, 202</u>
Note: If a	,	in the view the score should b	e a 0 (no impact), otherwise,
4. Rate the compatibility of the proposed project o	n a scale of 1 to 3 (1 co	mpatible to 3 not compatible)
Water Resources:	2	Land Use:	2
Landform:	1	User Activity:	2
Vegetation:	1	Total:	8
5. Rate scale contrast of the proposed project on a	scale of 1 to 3 (1 minin	nal to 3 severe)	
Water Resources:	1	Land Use:	1
Landform:	1	User Activity:	1
Vegetation:	1	Total:	5
6. Rate spatial dominance of the proposed project	on a scale of 1 to 3 (1 s	ubordinate, 2 co-dominant, 3	3 dominant)
Water Resources:	1	Land Use:	1
Landform:	1	User Activity:	1
Vegetation:	1	Total:	5
7. Comments:			

Proposed Conditions - Compatibility and Contrast Rating	Date: February 18, 2021	Proposed Conditions	Date: February 18, 20	021
Note: If an element is not present in the view the score should to rating should be a whole number score.	he a O (no impact), otherwise,	•	box next to the description that most closely describes the visual prominence of the Proj	ect from
t. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible Water Resources: 2 Land Use:	2	Visibility Rating Visibility level 1. Visible only after extended, close viewing: otherwise invisible.	Description An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking all it closely for an extended period.	
Landform: 1 User Activity: Vegetation: 1 Total:	8	Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more obsely at an area, can be detected without extended viewing. It could somelimes be noticed by assual observers: however, most people would not notice it without some active looking.	
5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) Water Resources: 1 Land Use:	1	Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	√
Landform: 1 User Activity: Vegetation: 1 Total: 5. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant,	1 5	Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly affact visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
Water Resources: Land Use: Land User Activity: Vegetation: 1 Total:	1 1 5	Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending lo hold that attention. In addition to strong contrasts in form, line, color, and leuture, bright light sources such as lighting and reflections! and moving objects associated with the study subject may contribute substantially of ovarwing viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	
7. Comments: The turbines are visible in the distance but they do not have a dominant presence given the other features in the verenain the focus of this view.		Visibility level 6. Dominates the view because the study subject fills most of the because the study subject fills most of the because the study subject fills most of readon. Strong contrasts in form, line, color, feature, luminance, or molion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies must of the visual field, and views of it cannot be avoided except by turning one's head more than 45° from large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, color, and texture, bright light sources and moving objects associated with the study subject may contribute substantially for drawing viewer afterion. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.	





The spacing and stacking of the turbines (center view) makes them stand out more as dark bands. The turbines begin to blend within the context on either side of center view.

Visual Impact Assessment	Visual Impact Assessment	Personnel: Jocelyn Gavitt
Date: 2/17/21 Personnel: Jocelyn Gavitt		KOP: LBT03 Beach at Longer
	Principles of composition, continued:	Date: 2/17/21
.andscape Similarity Zone: Oceanfront Residential Key Observation Point Name/Number: LBT03 Beach at Long	3. Visual Clutter	
Key Observation Point (KOP) Familiarization	Numerous unrelated built elements occurring within a view can create visual clutter (di adverse effect on scenic quality.	
andscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.	Does this view contain elements that contribute to visual clutter? Yes	No
The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes	If yes, how does the visual clutter affect the view? 4. Movement	
General elements of formal visual analysis to be considered include:	Motion of existing and proposed elements in a view can attract viewer attention.	
Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by	Does this view contain elements in motion that are likely to attract viewer attention	? ☑ Yes ☐ No
their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions, especially those that are distinctly local, enclosed, detalled, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or enhemeral landscapes.	(If the answer is yes, Note these elements in rating form comments)	
	Factors affecting visual impact:	
 Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by 	5. Duration of View	
edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or lexture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project smillar to or	Some views are seen as quick glimpses while driving along a roadway or hiking a trai of time. Longer duration views of a project, especially from significant aesthetic resou	
contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.	The duration of this view is: ☐ Short Term/Fleeting ☑ Long-term	
 Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint. 	The frequency of this view is: ☑ Repeated ☐ Occasional	
 Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors. 	6. Atmospheric Conditions Clouds, precipitation, haze, and other ambient weather-related conditions can affect t can greatly impact the visibility and contrast of project components with landscape/se line, color, texture, and scale.	
Principles of composition to be considered include:	Conditions in this view can be described as: ☑ Clear ☐ Partly Cloudy ☐ C	vercast Hazy
1. Focal Point	Conditions that may increase/decrease visibility could be described as: Moisture	n the air could impact visibility.
Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape. Does this view contain a focal point? Yes No	7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming toward the obser Front lighting refers to a situation where the light source is coming from behind the obviewed. Side lighting refers to a viewing situation in which sunlight is coming from overelements in a scene. Lighting direction can have a significant effect on the visibility and the company of	server and falling directly upon the area being rhead or the side of the observer to a feature or
If yes, briefly identify/describe: the focus is at the horizon line where the beach meets the ocean		
2. Order	The relevant lighting condition can be described as: backlit frontlit	side-lit
Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.	Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that there is broad presource. The characteristics of the resource that contribute to its scenic or recreation visual impact on that resource.	
Does this view contain a natural order? 🔛 Yes 🗌 No If yes, how does the natural order affect the view?	Would viewers consider this location a valued scenic or recreational resource?	∕es □ No
This iview has a clear delination of shoreline, water and sky. Each of these elements converge at the focal point.	How would the site be used for scenic or recreational enjoyment? Local residents will	enjoy this view on a regular basis
ATLANTIC SHORES 1 of offshore wind	6 ATLANTIC SHORES offshore wind	2 of 6

	-					
Visual Impact Ass	essment	Personnel: Jocelyn Gavi	tt	Vicual Impact Assessment	Personnel: Jocelyn Gav	vitt
visuai iiripact Ass	essinent	KOP: LBT03 Beach		Visual Impact Assessment	KOP: LBT03 Beac	
Eviation Canditions		Date: 2/17/21		Draw acced Counditions	Date: 2/17/21	
Existing Conditions		ce on a score of 1 to 9 (1 liability to 9 distinct)		Proposed Conditions 1. With the proposed project in place, rate the aesthetic quality/sensitivity of each re-		
Note: If an element is not present	in the view the score should be 4.5 of 9.0 (no			Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact),	source on a score of 1 to 9 (1 hability to 9	Scor
be a whole number score.			Score	otherwise, rating should be a whole number score.	Water Resources:	4
		Water Resources:				-
		water resources.	9		Landform:	4
		Landform:	7		Vegetation:	4
		Vegetation:	5		Land Use:	3
		Land Use:	6		User Activity:	3
		User Activity:	7			
		Existing Conditions #1 Total:	34	Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct)		
2. Respond to each question be	elow using a score of 0 to 3 (0 not present	to 3 being high density)		Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	4
Special Cond	lition A. Does this zone contain any	scenic, cultural, or historic landmarks?	2		•	-4
Special	Condition B. Are there other aesth	etic elements that add to this resource?	1		Total:	22
Respond to each question belo	w using a score of 0 to 3 (0 littered/pollute	d to 3 free of litter/pollution)				
	Special Condition C. Is the	nis zone free from pollution and/or litter?	2	3. Comments:		
	Existing Con	ditions #2 Total (Sum 2A through 2C)	5	The proposed turbines are highly visible in the open water. Due to the large quantity and align: These turbines span a large area of open water and penetrate the horizon line. The turbines be		
3. Comments:	Existing Conditions Gr	and Total (Sum #1 Total and #2 Total)	39			
attention, a wide sandy beach, son		tural. There is a balance of open ocean, with wave motion to ents converge at the focal point on the horizon. Footprints pr a regular basis.				



Score

Personnel: Jocelyn Gavitt Visual Impact Assessment KOP: LBT03 Beach at Longer Date: 2/17/21 **Proposed Conditions - Compatibility and Contrast Rating** Note: If an element is not present in the view the score should be a 0 (no impact), otherwise, rating should be a whole number score. 4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible) Land Use: Water Resources: 3 2 Landform: 2 User Activity: 2 Vegetation: Total: 11 5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) $\,$ Water Resources: 3 Land Use: 2 Landform: 2 User Activity: 2 Vegetation: 2 Total: 11 6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominant) Water Resources: Land Use: 2 Landform: User Activity: 3 Vegetation: Total: 13 7. Comments: The turbines become the focal point in this view. They completely cover the open water view and occupy the horizon line. They create a "built" condition in the

ATLANTIC SHORES

Visual Impact Assessment

KOP: LBT03 Beach at Long 1

Date: 2/17/21

Personnel: Jocelyn Gavitt

Proposed Conditions

8. Visibility	Threshold I	Level - Check	the box next to	the description	that most closel	y describes	the visual	prominence	of the P	roject fro
the selected	I KOP,									

Visibility Rating	Description	
Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unawer of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	
Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape-beaescape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual affection, drawing rewer attention immedially and tending to hold that attention. In addition to strong contrasts in form, line, color, and lexture, bright light sources such as lighting and reflections and moving optics associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	
Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, lexture, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and view of it cannot be avoided except by turning one's head more than 45° from a direct view of the object. The object/phenomenon is the major boxs of visual attention, and its large apparent size is a major factor in a view dominance. In addition to size, contrasts in form, line, color, and teature, bright light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscape-beascape elements.	✓

9. Comments:

The proposed conditions are highly noticeable and will capture the viewer's attention as a focus

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Visual Impact Assessment	
visual impact Assessment	
Date: 17 February 2021	Personnel: KAC
Landscape Similarity Zone: Oceanfront Residential	Key Observation Point Name/Number: <u>LBT03 Long B Isld</u>
Key Observation Point (KOP) Familiarizat	tion
Landscape/seascape, viewer, and related factors to be consider	ered during evaluation of the KOP are outlined below.
	ncorporated into the scoring and comments on the VIA assessment form bservations and should be completed quickly, taking no more than 5 minutes)
General elements of formal visual analysis to be consi	idered include:
their spatial arrangement. Basic landscape componen	ent of objects and voids in the landscape that can be categorized by its include vegetation, landform, water, and sky. Some compositions, tailed, or feature-oriented, are more vulnerable to modifications than

- Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.
- Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint.
- Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors.

Principles of composition to be considered include:

1. Focal Point

Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important in the landscape/seascape.

Does this view contain a focal point? $\ensuremath{\square}$ Yes $\ensuremath{\square}$ No

If yes, briefly identify/describe: Rolling surf and horizon line

2. Order

Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural lands by displaying traditional or logical patterns of land use/development. Elements in the landscape that are in this natural order may detract from scenic quality. When a new project is introduced to the landscape, inta are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding b environment.

Does this view contain a natural order? Yes No If yes, how does the natural order affect the view?

Sandy beach, rolling surf, waves, ocean and horizon; horizontal landscape with strong perspective pull to the right of the vi waves and sky to fan out from the perspective center point.

result of their , and therefore n as a distinctive t existing focal points	
scapes exhibit order nconsistent with actness and order built or natural	
iew causing the sand,	

Visual Impact Assessment	Personnel: KAC
The data in the data is a second seco	KOP: LBT03 Long B Isld
Principles of composition, continued:	Date: 17 February 2021
3. Visual Clutter	
Numerous unrelated built elements occurring within a view can create visual clutte adverse effect on scenic quality.	er (disrupting the natural order), which generally has an
Does this view contain elements that contribute to visual clutter?	☑ No
If yes, how does the visual clutter affect the view? N/A	
4. Movement	
Motion of existing and proposed elements in a view can attract viewer attention.	
Does this view contain elements in motion that are likely to attract viewer atte	ntion? Ves No
(If the answer is yes, Note these elements in rating form comments)	
Factors affecting visual impact:	
5. Duration of View	
Some views are seen as quick glimpses while driving along a roadway or hiking a of time. Longer duration views of a project, especially from significant aesthetic re	
The duration of this view is: $\ \square$ Short Term/Fleeting $\ \square$ Long-term	
The frequency of this view is: $\ \ \square$ Repeated $\ \ \square$ Occasional	
6. Atmospheric Conditions	
Clouds, precipitation, haze, and other ambient weather-related conditions can aff can greatly impact the visibility and contrast of project components with landscap line, color, texture, and scale.	
Conditions in this view can be described as: 🗹 Clear 🗖 Partly Cloudy 🕻	Overcast Hazy
Conditions that may increase/decrease visibility could be described as: Almo Projection	
7. Lighting Direction	
Backlighting refers to a viewing situation in which sunlight is coming toward the o Front lighting refers to a fusuation where the light source is coming from behind it viewed. Side lighting refers to a viewing situation in which sunlight is coming from elements in a scene. Lighting direction can have a significant effect on the visibili	e observer and falling directly upon the area being n overhead or the side of the observer to a feature or
The relevant lighting condition can be described as: $\ \ \ \ \ \ \ \ \ \ \ \ \ $	side-lit
8. Scenic or Recreational Value	
Designation as a scenic or recreational resource is an indication that there is bro- resource. The characteristics of the resource that contribute to its scenic or recre visual impact on that resource.	
Would viewers consider this location a valued scenic or recreational resource?	7 Yes □ No

How would the site be used for scenic or recreational enjoyment? Open beach.

ATLANTIC SHORES



Visual Impact Assessment Personnel: KA	<u>C</u>	Visual Impact Assessment	Personnel: KAC	
	T03 Long B Isld	Tioual impact to cooling it	KOP: LBT03 Long	B Isld
Existing Conditions Date: 17	February 2021	Proposed Conditions	Date: 17 February	2021
In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1 liability to 9 disting).	nct)	With the proposed project in place, rate the aesthetic quality/sensitivity of each resource.	urce on a score of 1 to 9 (1 liability to 9	distinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.	. ,	Score
	Score		Water Resources:	6
Water Resou	rces: 7		Landform:	6
Land	form: 6		Vegetation:	4.5
Vegeta	ation: 4.5		Land Use:	6
Land	Use: 6		User Activity:	6
User Act	tivity: 6			
Existing Conditions #1 T	otal: 29.5	Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct)		
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high density)		Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	2
Special Condition A. Does this zone contain any scenic, cultural, or historic landma	nrks?			
Special Condition B. Are there other aesthetic elements that add to this resou	rce?		Total:	30.5
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/pollution)				30.5
Special Condition C. Is this zone free from pollution and/or I	itter?	3. Comments:		
Existing Conditions #2 Total (Sum 2A through	1 2C) 2	Despile the magnitude of the Project in this view, the organized and symmetrical nature of the turb horizon are visually appealing in their composition. There is no visual competition between the turb the project of the project o	bines and other elements in the view, such a	as land mass,
Existing Conditions Grand Total (Sum #1 Total and #2 T 3. Comments:	otal) 31.5	vegetation, buildings, etc., therefore, the view is all about the wind farm itself, which offers someth important to note that the visual quality of the view is not reduced by the introduction of the wind fa and uniform heights of the turbines that recede into the perspective.		
Cultural Historic: None apparent.				
Aesthetic: Open, light colored sandy beach contrasted against the blue-green rolling ocean surf and clear, sky-blue horizon.				
Litter: Visitor beach litter.				
Summary of View: The wide open, sandy beach with very little rock outcroppings or harsh pebble sand would make this a popular beach activities at the ocean that is common along the New England seaboard, therefore, while pleasing, the beach is not visually amount of foot traffic in the view further supports the high use by the local and visiting community.				
ATLANTIC SHORES offshore wind	3 of 6	ATLANTIC SHORES offshore wind		4 of

Visual Impact Assessr	ment	Personnel: KAC	Visual Impact Assessi	ment Personnel: KAC
visual impuot / issossi	none	KOP: <u>LBT03 Long B Isld</u>		KOP: <u>LBT03 Long B Isld</u>
	n element is not present in the view the score sho	Date: <u>17 February 2021</u> Id be a 0 (no impact), otherwise,	Proposed Conditions 8. Visibility Threshold Level - Check th the selected KOP.	Date: <u>17 February 2021</u> e box next to the description that most closely describes the visual prominence of the Project from
rating sho	ould be a whole number score.			
Rate the compatibility of the proposed project on	a scale of 1 to 3 (1 compatible to 3 not compa	ible)	Visibility Rating	Description
Water Resources:	1.5 Land Use	1.5	Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.
Landform: Vegetation:	1 User Activity O Total		Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers: however, most people would not notice it without some active looking.
Rate scale contrast of the proposed project on a state of the proposed project of the proposed project of the proposed project of the project of t			Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.
Landform: Vegetation:	1 User Activity O Total	1.5	Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.
Rate spatial dominance of the proposed project or Water Resources: Landform: Vegetation:	1.5 Land Use 1 User Activity 0 Total	1.5	Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Aftention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An objectlyhenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and lending to hold that attention. In addition is toring contrasts in form, line, color, and texture, bright light sources such as lighting and reflections! and moving objects associated with the study subject may contribute substantially of orwainty elever attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements.
7. Comments: Compatibility: The back ill gray of the turbines on the hori score is triggered by the introduction of an industrialized ir	izon blends with the tan, French gray, sea green and		Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in layered direction. Strong contrasts in form, line, color, leature, land the color may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual facil, and views of it cannot be avoided except by burning one's head more than 45° from a direct view of the object. The object-phenomenon is the major locus of visual attention, and its own of the object produced by the object as associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.
Scale: The installed turbines at 24.87-miles to the neares that would cause them to be considered severe in contras Spatial Dominance: The combination of the beach ocean	t turbine are relatively small in perceived height and it.		9. Comments:	



Spatial Dominance: The combination of the beach, ocean and sky still dominate the viewer's attention, however, the light gray turbines sit lightly on the horizon and contribute to the overall viewing experience.

N/A

Visual Impact Assessment		Visual Impact Assessmen	† Personnel:_KV
'		Tisaar iiiipaat vissessiiiaii	KOP: <i>LBT03 - Long Beach I</i>
Date: 02-18-2021	Personnel: KV	Principles of composition, continu	ued: Date: 02-18-2021
andscape Similarity Zone: Oceanfront Residential	Key Observation Point Name/Number: <u>LBT03 - Long Bea</u>	3. Visual Clutter	
Key Observation Point (KOP) Familiarization	on	adverse effect on scenic quality.	curring within a view can create visual clutter (disrupting the natural order), which generally has an
andscape/seascape, viewer, and related factors to be considered	ed during evaluation of the KOP are outlined below.	Does this view contain elements the	hat contribute to visual clutter?
The effect of the proposed Project on these factors should be inc	orporated into the scoring and comments on the VIA assessment form	If yes, how does the visual clutter	affect the view?
proposed conditions). (This form is intended to record initial obs	ervations and should be completed quickly, taking no more than 5 mir.	nutes) 4. Movement	
General elements of formal visual analysis to be consid-	ered include:		ents in a view can attract viewer attention.
,	t of objects and voids in the landscape that can be categorized by	Does this view contain elements in	n motion that are likely to attract viewer attention? 🛮 Yes 🗀 No
their spatial arrangement. Basic landscape components	include vegetation, landform, water, and sky. Some compositions, led, or feature-oriented, are more vulnerable to modifications than	(If the answer is yes, Note these e	elements in rating form comments)
	ajor compositional elements that define the perceived visual character	Factors affecting visual impact:	
of a landscape/seascape, as well as a project. Form ref	ers to the shape of an object that appears unified, often defined by	5. Duration of View	
	path the eye follows when perceiving abrupt changes in form, color, asses in the landscape/seascape. Texture, in this context, refers to	Some views are seen as quick glimps	ses while driving along a roadway or hiking a trail, while others are seen for a more prolonged period oject, especially from significant aesthetic resources, have the greatest potential for visual impact.
the visual surface characteristics of an object. The exter	nt to which form, line, color, and texture of a project are similar to or cape/seascape is a primary determinant of visual impact.	11	Short Term/Fleeting 🗹 Long-term
 Spatial Dominance: The degree to which an object or and thus dominates seascape composition from a speci 	landscape/seascape element occupies space in a landscape/seascap fic viewpoint.	The frequency of this view is:	Repeated ☐ Occasional
	in relation to its surroundings can define the compatibility of its scale is likely to vary depending on the distance from which it is seen and		ambient weather-related conditions can affect the visibility of an object or objects. These conditions not ast of project components with landscape/seascape elements and the design elements of form,
Principles of composition to be considered include	:	Conditions in this view can be de-	scribed as: 🗹 Clear 🔲 Partly Cloudy 🔲 Overcast 🔲 Hazy
1. Focal Point		Conditions that may increase/dec	crease visibility could be described as: Overcast/hazy conditions could limit visibility.
Certain natural or man-made landscape/seascape feat	ures stand out and are particularly noticeable as a result of their	7. Lighting Direction	
tend to draw a viewer's attention. Examples include pro	In their surroundings in color, form, scale, or lexture, and therefore ominent trees, mountains, or cultural features, such as a distinctive e sited so as to obscure or compete with important existing focal point	ts Front lighting refers to a situation whe viewed. Side lighting refers to a viewir	ion in which sunlight is coming toward the observer from behind a feature or elements in a scene. see the light source is coming from behind the observer and falling directly upon the area being ng situation in which sunlight is coming from overhead or the side of the observer to a feature or n can have a significant effect on the visibility and contrast of landscape and project elements.
Does this view contain a focal point? Yes			
If yes, briefly identify/describe: the horizon line against	the ocean provides a focus, but no strong single focal point is present	The relevant lighting condition can be	described as: 🗾 backlit 🔲 frontlit 🔲 side-lit
2. Order			
	er determined by natural processes. Cultural landscapes exhibit order development. Elements in the landscape that are inconsistent with	8. Scenic or Recreational Value	
this natural order may detract from scenic quality. Whe	n a new project is introduced to the landscape, intactness and order s, colors, and textures existing in the surrounding built or natural	Designation as a scenic or recreations resource. The characteristics of the re visual impact on that resource.	al resource is an indication that there is broad public consensus on the value of that particular source that contribute to its scenic or recreational value provide guidance in evaluating a project's
Does this view contain a natural order?	□ No	Would viewers consider this location a	a valued scenic or recreational resource?
the viewers gaze is drawn along this image following the vani the sand and waves, respectively.	shing lines of the shoreline and horizon which are highlighted by darkened tracks in	How would the site be used for scenic	c or recreational enjoyment? While the shoreline beach is a recreational location, there are no designated resources captured by this view.
ATLANTIC SHORES		1 of 6 ATLANTIC SHORES offshore wind	2

Visual Impact Assessment	Personnel: KV	
F	KOP: LBT03 - Lon	g Beach 🖨
Existing Conditions	Date: <u>02-18-2021</u>	
Existing Conditions 1. In the existing view rate the aesthetic quality/sensitivity of each resource or	a score of 1 to 9 (1 liability to 9 distinct)	
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no imple be a whole number score.		
		Score
	Water Resources:	6
	Landform:	6
	Vegetation:	4.5
	Land Use:	5
	User Activity:	5
	Existing Conditions #1 Total:	26.
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 to	eing high density)	
Special Condition A. Does this zone contain any sce	nic, cultural, or historic landmarks?	0
Special Condition B. Are there other aesthetic	elements that add to this resource?	0
Respond to each question below using a score of 0 to 3 (0 littered/polluted to	free of litter/pollution)	
Special Condition C. Is this z	one free from pollution and/or litter?	3
Existing Condition	ons #2 Total (Sum 2A through 2C)	3
Existing Conditions Grand 3. Comments:	Total (Sum #1 Total and #2 Total)	29.
Motion attracting view attention: Birds, waves, user groups on the beach.		
This view depicts a serene beach where human activity is present but effort to accomme leak of highly developed beach access points and the somewhat neglected stone pir view hold the dunes at a height to form protection to residences beyond. Water resource common to the region. No vegetation is found within this view, although young dune grabitrds. Land use and user activity are as discussed are targeted to those in the immediat frequented beach.	r. Sand dunes with young dune grass and sand fencir is and landform at this location are expansive and ope sses are used to hold the dunes and provide nesting lo	ng just beyond t en, but also ocation for sea
While this beach is in proximity to a local community resource, the Long beach Island Follocated in close proximity.	nundation of the Arts & Sciences, but no state or nation	nal resources a

ATLANTIC SHORES

Visual Impact Assessment	Personnel: KV	
visual impuot / issossinone	KOP: LBT03 - Long	g Beach i
Proposed Conditions	Date: 02-18-2021	
With the proposed project in place, rate the aesthetic quality/sensitivity of each resource.	urce on a score of 1 to 9 (1 liability to 9 c	listinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.	,	Sco
	Water Resources:	4
	Landform:	4
	Vegetation:	4.
	Land Use:	4
	User Activity:	4
Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	4
	Total:	24
3. Comments:		
WTGs at this location expand across the selected view frame. WTGs at the center of the array cre- from the center slowly loose the stacked appearance and begin to have a densely scattered and di- individual turbines dotting out from the edge of the array. The wide open expanse of ocean become the blades is likely to attract and retain viewer attention. Landform within this view is at this expansiveness of the horizon may increase the closed in experience of the thin beach closely back within this view. Land use and user activity at this view have been acting primarily as location for p place the emphasis of the view becomes the furthers.	lisorganized pattern before the spread tappers ses cluttered with easily visible turbines, and the se beach and the intensely vertical turbines linked by tall dunes, just beyond the view. Veget	s out to app he moveme niting the tation is not



Visual Impact Assess	sment ¹	Personnel: KV	Visual Impact Assessi	ment Personnel: KV
		KOP: LBT03 - Long Beach		KOP: <u>LBT03 - Long Beach</u>
Proposed Conditions - Compati	bility and Contrast Rating	Date: <u>02-18-2021</u>	Proposed Conditions	Date: <u>02-18-2021</u>
Note: If	f an element is not present in the view the score should be a whole number score.	d be a 0 (no impact), otherwise,		e box next to the description that most closely describes the visual prominence of the Project from
Rate the compatibility of the proposed project of the project of the proposed project of the project of	on a scale of 1 to 3 (1 compatible to 3 not compatit	ole)	Visibility Rating	Description
Water Resources:	3 Land Use:	3	Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.
Landform: Vegetation:	3 User Activity: O Total:	3	Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be delected without extended viewing, it could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.
5. Rate scale contrast of the proposed project on			Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.
Water Resources: Landform: Vegetation:	2 User Activity: O Total:	2 2 9	Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.
6. Rate spatial dominance of the proposed project	t on a scale of 1 to 3 (1 subordinate, 2 co-dominan	t, 3 dominant)	Visibility level 5. Strongly attracts the visual	An object/phenomenon that is not large but contrasts with the surrounding landscape elements
Water Resources: Landform: Vegetation:	3 Land Use: 2 User Activity: Total:	2 2	attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	
7. Comments:	of the array is not compatible with the existing character		Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, teature, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by turning one's head more than 45° from a direct view of the object. The object/phenomenon is hempio focus of visual attention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, color, and returne, triplit light sources and moring objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.
			will readily distinguish them on the horizon. central rows create dense silhouettes on th	I expanse of ocean and do not affect the full available horizon. However, furbines are at such a size that beach uses the scatter distribution appearance of the furbines at the edge of the array softens the visibility, but stacking of the horizon and draws the viewers gaze. Due to the distance of the WTG at this location weather conditions and of affect on the VTL. However, in these clear conditions, even at such a distance it is likely to be a major focus of

Visual Impact Assessment	
Date: February 18, 2021 Person	nnel: Steve Breitzka
Landscape Similarity Zone: <u>Oceanfront Residential</u> Key Observation Point Name/Num	nber: LBT03
Key Observation Point (KOP) Familiarization	
Landscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outline	d below.
The effect of the proposed Project on these factors should be incorporated into the scoring and comments of (proposed conditions). (This form is intended to record initial observations and should be completed quickly.	
General elements of formal visual analysis to be considered include:	
 Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that their spatial arrangement. Basic landscape components include vegetation, landform, water, and s especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerab panoramic, canopied, or ephemeral landscapes. 	ky. Some compositions,
• Form, Line, Color, and Texture: These are the four major compositional elements that define the of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abru or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, the visual surface characteristics of an object. The extent to which form, line, color, and texture of a contrast with these same elements in the existing landscape/seascape is a primary determinant of	unified, often defined by upt changes in form, color, in this context, refers to a project are similar to or
 Spatial Dominance: The degree to which an object or landscape/seascape element occupies spa and thus dominates seascape composition from a specific viewpoint. 	ice in a landscape/seascape
 Project Scale: The apparent size of a proposed project in relation to its surroundings can define the within the existing seascape. Perception of project scale is likely to vary depending on the distance other contextual factors. 	
Principles of composition to be considered include:	
1. Focal Point	
Certain natural or man-made landscape/seascape features stand out and are particularly noticeat physical characteristics. Focal points often contrast with their surroundings in color, form, scale, o tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural featur lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with in in the landscape/seascape.	r texture, and therefore es, such as a distinctive
Does this view contain a focal point? ☐ Yes ☑ No	
If yes, briefly identify/describe:	
2. Order	
Natural lands:apex/seascapes have an underlying order determined by natural processes. Cultur by displaying traditional or logical patterns of land use/development. Elements in the landscape it this natural order may detract from scenic quality. When a new project is introduced to the landsca are maintained through the repetition of the forms, lines, colors, and textures existing in the surrou environment.	nat are inconsistent with ape, intactness and order
Does this view contain a natural order?	
ATLANTIC SHORES	1 of 6

Visual Impact Assessment	Personnel: Steve Breitzka
Visual impuoti / tooossiiiont	KOP:_ <i>LBT03</i>
Principles of composition, continued:	Date: February 18, 2021
3. Visual Clutter	
Numerous unrelated built elements occurring within a view can create visual clutter (disrupting adverse effect on scenic quality.	the natural order), which generally has an
Does this view contain elements that contribute to visual clutter?	
If yes, how does the visual clutter affect the view?	
4. Movement	
Motion of existing and proposed elements in a view can attract viewer attention.	
Does this view contain elements in motion that are likely to attract viewer attention?	Yes No
(If the answer is yes, Note these elements in rating form comments)	
Factors affecting visual impact:	
5. Duration of View	
Some views are seen as quick glimpses while driving along a roadway or hiking a trail, while of time. Longer duration views of a project, especially from significant aesthetic resources, ha	
The duration of this view is: \square Short Term/Fleeting \square Long-term	
The frequency of this view is: 🗹 Repeated 🗆 Occasional	
6. Atmospheric Conditions	
Clouds, precipitation, haze, and other ambient weather-related conditions can affect the visib can greatly impact the visibility and contrast of project components with landscape/seascape line. color, texture. and scale.	
Conditions in this view can be described as: ☑ Clear ☐ Partly Cloudy ☐ Overcast	Hazy
Conditions that may increase/decrease visibility could be described as: The sky appears a	as clear as could be.
7. Lighting Direction	
Backlighting refers to a viewing situation in which sunlight is coming toward the observer fron Front lighting refers to a situation where the light source is coming from behind the observer viewed. Side lighting refers to a viewing situation in which sunlight is coming from overhead ce elements in a scene. Lighting direction can have a significant effect on the visibility and contri	and falling directly upon the area being or the side of the observer to a feature or
The relevant lighting condition can be described as:	
8. Scenic or Recreational Value	
Designation as a scenic or recreational resource is an indication that there is broad public con resource. The characteristics of the resource that contribute to its scenic or recreational value visual impact on that resource.	
Would viewers consider this location a valued scenic or recreational resource? \square Yes \square] No
How would the site be used for scenic or recreational enjoyment? There are residences lining	the oceanfront with direct beach access.

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ATLANTIC SHORES

offshore wind

ATLANTIC SHORES

Visual Impact Assess	ment I	Personnel: Steve Breitzka	1	Visual Impact Assessment	Personnel: Steve Breitzka	
·		KOP: <u>LBT03</u>		Visual impust / issuesiment	KOP:_ <i>LBT03</i>	
Existing Conditions		Date: February 18, 2	2021	Proposed Conditions	Date: <u>February 18, 20</u>	021
In the existing view rate the aesthet	ic quality/sensitivity of each resource on a score of 1 to 9 (1 li	iability to 9 distinct)		With the proposed project in place, rate the aesthetic quality/sensitivity	of each resource on a score of 1 to 9 (1 liability to 9 dis-	tinct)
Note: If an element is not present in the be a whole number score.	view the score should be 4.5 of 9.0 (no impact), otherwise, rating s	should		Note: If an element is not present in the view the score should be 4.5 of 9.0 (notherwise, rating should be a whole number score.) impact),	Score
			Score		Water Resources:	2
	,	Water Resources:	9		Landform:	4
		Landform:	8		Vegetation:	4.5
		Vegetation:	4.5		Land Use:	2
		Land Use:	9		User Activity:	2
		User Activity:	9			
	Existing Cor	nditions #1 Total:	39.5	Collectively rate special conditions on a score of 0 to 9 (0 liability to 9		
2. Respond to each question below us	sing a score of 0 to 3 (0 not present to 3 being high density)			Note: Special Conditions score is taken directly from Existing Conditions #2 To be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	3
Special Condition	A. Does this zone contain any scenic, cultural, or hi	istoric landmarks?	0			3
Special Cond	lition B. Are there other aesthetic elements that add	d to this resource?	3		Total:	17.5
Respond to each question below usin	g a score of 0 to 3 (0 littered/polluted to 3 free of litter/pollutio	n)				
	Special Condition C. Is this zone free from poll	lution and/or litter?	2	3. Comments:		
	Existing Conditions #2 Total (Sun	m 2A through 2C)	5	While not tall features in the overall sky portion, the proposed turbines command a turbines on the left and right fade into the horizon, the stacked formation turbines i	n the center are cluttered. The three central rows appear like da	
3. Comments:	Existing Conditions Grand Total (Sum #1 To	otal and #2 Total)	44.5	masses protruding from the water. The pale while sky at the horizon makes the Iu The turbines add an industrial feel to an otherwise undeveloped existing view. Th in this direction is open and unobstructed.		al, but the view
a unique texture and shadow lines. There	ach leading to the water. Frothy white waves cresting along the length is small outcropping of dark rocks where the water meets the sand. Shitsh blue at the horizon to a rich golden blue at the top of the view.					
ATLANTIC SHORES offshore wind			3 of 6	ATLANTIC SHORES offshore wind		4 of 6
Visual Impact As	ssessment	Personnel: <u>Steve Breitzka</u> KOP: <u>LBT03</u>		Visual Impact Assessment	Personnel: <u>Steve Breitzka</u> KOP: <u>LBT03</u>	

Visual Impact Assessment Personnel: Steve Breitzka		1	Visual Impact Assessr	nent	Personnel: Steve Breitzka		
			KOP: <i>LBT03</i>		•		KOP: <u>LBT03</u>
Proposed Conditions - Compatib	ility and C	ontrast Rating	Date: February 18, 2	2021	Proposed Conditions		Date: <i>February 18, 2021</i>
	n element is not p ould be a whole n	oresent in the view the score should be number score.	a O (no impact), otherwise,		Visibility I hreshold Level - Check the the selected KOP.	box next to the description that most closely describe	s the visual prominence of the Project from
Rate the compatibility of the proposed project on	a scale of 1 to 3	3 (1 compatible to 3 not compatible)			Visibility Rating	Description	
Water Resources:	3	Land Use:	3		Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility, who was unaware of it in advance and looking for it. Even under can be seen only after looking at it closely for an extended perior	r those circumstances, the object
Landform: Vegetation:	0	User Activity: Total:	11		Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when horizon or looking more closely at an area, can be detected with sometimes be noticed by casual observers; however, most peop some active looking.	nout extended viewing. It could
Rate scale contrast of the proposed project on a Water Resources:		I minimal to 3 severe)			Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief most casual observers, but without sufficient size or contrast to seascape elements.	
Landform: Vegetation:	2 0	User Activity: Total:	3 10		Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly altract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or landscape/seascape elements, but with insufficient visual contrarts attention and insufficient size to occupy most of an observer's vi	ast to strongly attract visual
Rate spatial dominance of the proposed project of Water Resources: Landform: Vegetation:	2 1	Land Use: User Activity: Total:	3 3		Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the st so strongly that it is a major focus of visual attention, drawing is tending to hold that attention. In addition to strong contrasts in to bright light sources such as lighting and reflections! and moving subject may contribute substantially of ordwing viewer attention, study subject interferes noticeably with views of nearby landsca.	ewer attention immediately and orm, line, color, and texture, i objects associated with the study. The visual prominence of the
7. Comments: The view shifts from the three co-dominant components to component in the proposed view. The horizon is a focus man-made industrial texture.	o four: beach, wate	er, and sky are present in the existing vie	w; turbines are added as a si		Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contracts in form, line; color, texture, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts: that is so lar visual floid, and views of it cannot be avoided occopitly turning a direct view of the object. The object/phenomenon is the major large apparent size is a major factor in its view dominance. It as the color, and tourise, tright light sources and moving objects in major contribute substantially to drawing viewer alterition. The visualization of the color	one's head more than 45° from focus of visual attention, and its dddition to size, contrasts in form, associated with the study subject sual prominence of the study



The breadth of the turbine field, extending from one side of the view to the other, becomes the dominant focal point in the distance. The height is not as strong of a factor as the beach, ocean, and sky still comprise the majority of the view.

Visual Impact Assessment	Visual Impact Assessment Personnel: Jocelyn Gavitt
·	KOP: LBT04 Wildlife Refug
Date: 08/22/22 Personnel: Jocelyn Gavitt	Principles of composition, continued: Date: 08/22/22
Landscape Similarity Zone: <u>Undeveloped Beach</u> Key Observation Point Name/Number: <u>LBT04 Wildlife Refug</u>	3. Visual Clutter
Key Observation Point (KOP) Familiarization	Numerous unrelated built elements occurring within a view can create visual clutter (disrupting the natural order), which generally has an adverse effect on scenic quality.
Landscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.	Does this view contain elements that contribute to visual clutter? Yes No
The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form (proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes)	If yes, how does the visual clutter affect the view? 4. Movement
Canaral alamento of formal visual analysis to be considered instrude.	Motion of existing and proposed elements in a view can attract viewer attention.
General elements of formal visual analysis to be considered include:	Does this view contain elements in motion that are likely to attract viewer attention? Yes No
 Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions, especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or ephemeral landscapes. 	(If the answer is yes, Note these elements in rating form comments)
	Factors affecting visual impact:
 Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by 	5. Duration of View
edge, oulline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or	Some views are seen as quick glimpses while driving along a roadway or hiking a trail, while others are seen for a more prolonged period of time. Longer duration views of a project, especially from significant aesthetic resources, have the greatest potential for visual impact.
contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.	The duration of this view is: ☐ Short Term/Fleeting ☑ Long-term
 Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint. 	The frequency of this view is: ☑ Repeated ☐ Occasional
 Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors. 	6. Atmospheric Conditions Clouds, precipitation, haze, and other ambient weather-related conditions can affect the visibility of an object or objects. These conditions can greatly impact the visibility and contrast of project components with landscape/seascape elements and the design elements of form, line, color, texture, and scale.
Principles of composition to be considered include:	Conditions in this view can be described as: ☐ Clear ☐ Partly Cloudy ☑ Overcast ☐ Hazy
1. Focal Point	Conditions that may increase/decrease visibility could be described as: Clear, thier conditions would increase view
Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape.	7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming toward the observer from behind a feature or elements in a scene. Front lighting refers to a situation where the light source is coming from behind the observer and falling directly upon the area being viewed. Side lighting refers to a viewing situation in which sunlight is coming from overhead or the side of the observer to a feature or elements in a scene. Lighting direction can have a significant effect on the visibility and contrast of landscape and project elements.
Does this view contain a focal point?	
If yes, briefly identify/describe:	The relevant lighting condition can be described as: 🗾 backlit 🔲 frontlit 🔲 side-lit
2. Order Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.	Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that there is broad public consensus on the value of that particular resource. The characteristics of the resource that contribute to its scenic or recreational value provide guidance in evaluating a project's visual impact on that resource.
Does this view contain a natural order? ☑ Yes ☐ No If yes, how does the natural order affect the view?	Would viewers consider this location a valued scenic or recreational resource? 🗹 Yes 🔲 No
There is a clear layering of beach, water, horizon line, and sky	How would the site be used for scenic or recreational enjoyment? This view will be used by nearby residents and visitors for recreational enjoyment and viewing.
ATLANTIC SHORES 1 of 6	ATLANTIC SHORES offshore wind

ATLANTIC SHORES offshore wind		1 of 6		ATLANTIC SHORES offshore wind			2 of 6
Visual Impact Assessment	Personnel: Jocelyn Gav	ritt	Vi:	sual Impact Assessment		Personnel: Jocelyn Gavi	itt
	KOP: LBT04 Wildl	ife Refug a				KOP: LBT04 Wildli	fe Refuge
Existing Conditions	Date: 08/22/22		Pro	posed Conditions		Date: 08/22/22	
1. In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 $$	(1 liability to 9 distinct)		1. Wit	th the proposed project in place, rate the aesthetic quality/sensitivit	ty of each resource on a	score of 1 to 9 (1 liability to 9 of	distinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, ratil be a whole number score.	ing should			If an element is not present in the view the score should be 4.5 of 9.0 (r. wise, rating should be a whole number score.	no impact),		Score
		Score				Water Resources:	3
	Water Resources:	9				Landform:	3
	Landform:	5				Vegetation:	4.5
	Vegetation:	4.5				Land Use:	3
	Land Use:	7				User Activity:	2
	User Activity:	8					
Existing	Conditions #1 Total:	33.5		ollectively rate special conditions on a score of 0 to 9 (0 liability to 9			
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high density)			Special Conditions score is taken directly from Existing Conditions #2 To fjusted up or down based upon the Proposed Conditions view.	otal and can	Special Conditions:	5
Special Condition A. Does this zone contain any scenic, cultural, o	r historic landmarks?	3					
Special Condition B. Are there other aesthetic elements that	add to this resource?	2				Total:	20.5
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/poll	ution)						
Special Condition C. Is this zone free from	pollution and/or litter?	3	3. Co	mments:			
Existing Conditions #2 Total (S	Sum 2A through 2C)	8	comp	open water view is now dominated by a large field of highly visible turbines that for onent to the landscape. Viewers will be affected by the presence of the turbines e view.			
Existing Conditions Grand Total (Sum #13. Comments:	1 Total and #2 Total)	41.5					
This is an uninterrupted open water view that will be seen by users repeatedly and for long periods of enjoyment. movement of the waves provides the focal activity. There is no visual clutter in this wide open view.	The open water view dominates the	landscape and the					

Personnel: Jocelyn Gavitt Visual Impact Assessment Visual Impact Assessment KOP: LBT04 Wildlife Refug∎ Date: 08/22/22 Proposed Conditions - Compatibility and Contrast Rating **Proposed Conditions** Note: If an element is not present in the view the score should be a 0 (no impact), otherwise, rating should be a whole number score 4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible) Water Resources: Land Use: 3 2 User Activity: Landform: 1 2 Vegetation: Total: 8 5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) Water Resources: 3 Land Use: Landform: 1 User Activity: 2 Vegetation: 0 Total: 8 6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominant) Water Resources Land Use: 2 Landform User Activity: 2 Vegetation: Total: 9 0 7. Comments: The original appeal of this landscape is the uninterrupted open water view. The proposed turbines completely change the mood of the landscape, lending a strong ndustrial developed feel to the view. There is strong contrast from existing to proposed conditions. These are most visible when backlit, during sunrise and mid-day onditions, and overall have great impact in all lighting conditions.

Visual Impact Assessment

Personnel: KAC

Landscape Similarity Zone: <u>Undevel. Beach, Seascape</u> Key Observation Point Name/Number: <u>LBT04</u>

Key Observation Point (KOP) Familiarization

ATLANTIC SHORES

Date: 22 August 2022

Landscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.

The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form (proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes)

General elements of formal visual analysis to be considered include:

- Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or ephemeral landscapes.
- · Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character From, time, color, and returner insert end in the color major compositional elements that ceiting the ceiting of a landscape/seascape, as well as a project. From refers to the shape of an object that appears unified, often defined by edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.
- Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint.
- Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors.

Principles of composition to be considered include:

1. Focal Point

Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape.

Does this view contain a focal point? $\ensuremath{\mbox{\ensuremath{\square}}}$ Yes $\ensuremath{\mbox{\ensuremath{\square}}}$ No

If yes, briefly identify/describe: Horizon line and bright sun spot

2. Order

Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land used/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.

Does this view contain a natural order? Yes No If yes, how does the natural order affect the view

Compressed horizontal planes of sky, water and sand.

ATLANTIC SHORES

Personnel: Jocelyn Gavitt

KOP: LBT04 Wildlife Refug∎

Date: 08/22/22

. Visibility Threshold Level - Check the box next to the description that most closely describes the visual prominence of the	Project fron
he selected KOP.	

Visibility Rating	Description	
Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	
Visibility level 4. Plainty visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape-bearcape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object/phenomenon that is not large but contracts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer alterition immediately and tending to hold that alterition in addition to strong contracts in form, line, color, and texture, bright light sources such as lighting and reflections and moving objects associated with the study subject may contribute substantially of drawing viewer attention. The visual promitence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	√
Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture, uninance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of Larento be avoided except by furning one's head more than 458 from a direct view of the object. The object/phenomenon is the major focus of visual alterition, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in from, limit, color, and testime, tripfill pills reviews and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.	

ATLANTIC SHORES

9. Comments:

Vis

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e visibility level in this case is impacted somewhat by the lighting levels. The proposed conditions range from dominant during the daytime (when backlit) to more tile in the sunset simulation. The overall average is level 5, largely due to the massive extent of the project and its wide range of view. Viewers will focus on the

turbines and possibly be drawn to the patterns resulting from the perspective views of the receding ro

6 of 6

ottsnore wind	
ual Impact Assessment	Personnel: KAC
	KOP: <u>LBT04</u>
Principles of composition, continued:	Date: 22 August 2022
 Visual Clutter Numerous unrelated built elements occurring within a view can create visual clutter (adverse effect on scenic quality. 	disrupting the natural order), which generally has an
Does this view contain elements that contribute to visual clutter? 🗹 Yes 🗆	l No
If yes, how does the visual clutter affect the view? Footprints on the beach, and visual clutter affect the view?	regetation clumps.
Movement Motion of existing and proposed elements in a view can attract viewer attention.	
Does this view contain elements in motion that are likely to attract viewer attention	on? 🗹 Yes 🗆 No
(If the answer is yes, Note these elements in rating form comments)	
actors affecting visual impact:	
5. Duration of View	
Some views are seen as quick glimpses while driving along a roadway or hiking a tro of time. Longer duration views of a project, especially from significant aesthetic reso	
The duration of this view is: \square Short Term/Fleeting $\!$	
The frequency of this view is: $\ \ \ \ \ \ \ \ \ \ \ \ \ $	
6. Atmospheric Conditions	
Clouds, precipitation, haze, and other ambient weather-related conditions can affect can greatly impact the visibility and contrast of project components with landscape/s line, color, texture, and scale.	
Conditions in this view can be described as: \square Clear \square Partly Cloudy $ ot \square$	Overcast 🗹 Hazy
Conditions that may increase/decrease visibility could be described as: Lack of	cloud cover; clear conditions.
7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming toward the obsertion lighting refers to a situation where the light source is coming from behind the c viewed. Side lighting refers to a viewing situation in which sunlight is coming from or elements in a scene. Lighting direction can have a significant effect on the visibility is	observer and falling directly upon the area being verhead or the side of the observer to a feature or
The relevant lighting condition can be described as: 🗹 backlit 🗹 frontlit 🗹	side-lit
8. Scenic or Recreational Value	
Designation as a scenic or recreational resource is an indication that there is broad resource. The characteristics of the resource that contribute to its scenic or recreation visual impact on that resource.	

Would viewers consider this location a valued scenic or recreational resource?

Yes
No

How would the site be used for scenic or recreational enjoyment? Wildlife Refuge, undeveloped beach.

Visual Impact Assessment	Personnel: KAC		Visual Impact Assessment	Personnel: KAC	
	KOP: <i>LBT04</i>		Visual impact Assessment	KOP: <i>LBT04</i>	
Existing Conditions	Date: <u>22 August 2</u>	022	Proposed Conditions	Date: <u>22 August 20.</u>	22
In the existing view rate the aesthetic quality/sensitivity of each	resource on a score of 1 to 9 (1 liability to 9 distinct)		Nith the proposed project in place, rate the aesthetic quality/sensitivity of the second	each resource on a score of 1 to 9 (1 liability to 9 d	listinct)
Note: If an element is not present in the view the score should be 4.5 of be a whole number score.	f 9.0 (no impact), otherwise, rating should		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no imported in the view the score).	pact),	Score
		Score		Water Resources:	4
	Water Resources:	5		Landform:	5
	Landform:	5		Vegetation:	4.5
	Vegetation:	4.5		Land Use:	5
	Land Use:	5		User Activity:	4
	User Activity:	5			
	Existing Conditions #1 Total:	24.5	Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct Special Conditions score is taken directly from Existing Conditions #2 Total a		
2. Respond to each question below using a score of 0 to 3 (0 not p	resent to 3 being high density)		be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	1
Special Condition A. Does this zone conta	in any scenic, cultural, or historic landmarks?	1			
Special Condition B. Are there other	aesthetic elements that add to this resource?	0		Total:	23.5
Respond to each question below using a score of 0 to 3 (0 littered	/polluted to 3 free of litter/pollution)				
Special Condition (C. Is this zone free from pollution and/or litter?	1	3. Comments:		
Existing	g Conditions #2 Total (Sum 2A through 2C)	2	The turbines sit gently on the sunrise sky due to the front lit conditions at the horizon line. T and attracts the viewer's attention away from the turbines. The stacked turbines in the left at an individual installation.		
Existing Conditio 3. Comments:	ns Grand Total (Sum #1 Total and #2 Total)	26.5	The Noon view is highly contrasting between the sky, water, and sand due to the bright light the stark white line that supports the deeply colored turbines are the most visually powerful	components of the view. The stacked turbines in the left and	d right of the view
Cultural Historic: Wildlife Refuge			are highly visible at Noon; however, the highly textured water and highly textured turbine an	rangement are mutually competing for the viewer's attention.	
Aesthetic: Wide water view to the horizon, but not overly unique.			The sunset view colors are rich and inviting to look at, however, the front lit turbines on the I addition of the turbines along the horizon line is a textural element, but they are softened vis	sually due to the light color of the turbines and the light colore	
Litter: Beach visitor litter/Wash-in litter.			stacked turbines to the left and right of the view are less pronounced in this view and the vis	auai impact iesserieu.	
Summary of view. The early morning view across the beach and greater ocear not overly dramatic or unique to the east coast. The Noon view is more visual becoming overly bleached out by direct sunlight and the light on the ocean glin contrasts the long, thin bands of clouds in the sky. The sunset view has rich, o movement in the rolling surf.	ly compelling in color and texture since the cloud cover keeps the elementers from mid to background view. The significant glimmering texture	ents in the view from on the ocean			
ATLANTIC SHORES offshore wind		3 of 6	ATLANTIC SHORES offshore wind		4 of
Vicual Impact Accessment	Personnel: <i>KAC</i>		Visual Impact Assessment	Personnel: KAC	

Visual Impact Assessr	nent		nel: KAC	Visual Impact Assessn	nent
		K	OP: <i>LBT04</i>		
Proposed Conditions - Compatibi	ility and Co	ontrast Rating	ate: 22 August 2022	Proposed Conditions	
	n element is not pro uld be a whole nui	esent in the view the score should be a 0 mber score.	(no impact), otherwise,	Visibility Threshold Level - Check the the selected KOP.	box next to the description that
Rate the compatibility of the proposed project on	a scale of 1 to 3 ((1 compatible to 3 not compatible)		Visibility Rating	
Water Resources:	2.5	Land Use:	2	Visibility level 1. Visible only after extended, close viewing: otherwise invisible.	An object/phenomenon that is near who was unaware of it in advance a can be seen only after looking at it of
Landform: Vegetation:	1	User Activity: Total:	10.5	Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very thorizon or looking more closely at a sometimes be noticed by casual obsome active looking.
5. Rate scale contrast of the proposed project on a s		•		Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be most casual observers, but without seascape elements.
Water Resources: Landform:	2.5	Land Use: User Activity:	2	Visibility level 4. Plainly visible, so could not be missed by casual observers, but	An object/phenomenon that is obvio landscape/seascape elements, but v
Vegetation:	1	Total:	9.5	does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	attention and insufficient size to occ
6. Rate spatial dominance of the proposed project of	n a scale of 1 to 3	3 (1 subordinate, 2 co-dominant, 3 dom	ninant)		
Water Resources:	2.5	Land Use:	2	Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or	An object/phenomenon that is not la so strongly that it is a major focus of tending to hold that attention. In add bright light sources such as lighting
Landform:	2	User Activity:	2	texture, luminance, or motion.	subject may contribute substantially study subject interferes noticeably w
Vegetation:	1	Total:	9.5	Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to	An object/phenomenon with strong to visual field, and views of it cannot be a direct view of the object. The object arge apparent size is a major factor line, color, and texture, bright light so
7. Comments:				view dominance.	may contribute substantially to draw subject detracts noticeably from view
Compatibility: The density of turbines and industrial footprint o sunrise and sunset, and being a Wildlife Refuge and undevelochanged view.					
Scale: The scale of the turbines is based upon the cumulative	visual weight of the	entire system, versus a singular turbine.			
Spatial Dominance: The vastness of the ocean is in contrast to	to the visual weight o	of the turbines. Both have visual weight and s	patial dominance in the view.	9. Comments:	

Intervise likely to be missed by cassial observers; however, most people would not notice it without some active looking. An object/phenomenon that can be easily defected after a brief look and would be visible to most cassual observers, but our look and the state of the state	
he general direction of the study subject horizon of looking more closely at an area, can be detected without extended viewing, if could sometimes be onliced by casual observers: however, most people would not notice it without some active looking. An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with najor landscape seasons, it is a because of its appearance of the most developed by the contrast statement or be insisted by casual doservers, but without sufficient size or contrast to compete with other on be missed by casual doservers, but with sufficient size or contrast to compete with other on the missed by casual doservers, but with sufficient size or contrast to compete with other on the missed by casual doservers, but with insufficient visual contrast to strongly attract visual attention or be study subject. An object/phenomenon that is obvious and with sufficient size or contrast to compete with other on the missed by casual doservers but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field. An object/phenomenon that is only on the sufficient size or contrast to compete with other or landscapple season of the study subject. An object/phenomenon that is obvious and with sufficient size or contrast to compete with other or landscapple season of the study subject. An object/phenomenon that is obvious and with sufficient size or contrast to compete with other or landscapple season of the study subject. An object/phenomenon that is obvious and with sufficient size or contrast to compete with other or landscapple season of the study subject and contrasts with other or contrast to compete with other or landscapple season of the study subject and contrasts with other or contrast to compete with other or landscapple season of the study subject and contrasts of the sufficient size or contrast to compete with o	
in the general direction of the study subject and untilized by to be missed by casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements. Unstability level 4. Plainly visible, so could not be missed by casual observers, but with one missed by casual observers, but does not strongly attract visual altention or disconsinate the view because of its spens of the study subject. An object/ghenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient size or contrast to strongly attract visual datention and insufficient size to occupy most of an observer's visual field. Visibility level 5. Strongly attract site visual attention of views in the general direction of the study subject. Altention may be drawn attention of views in the general direction of the study subject. Hartonin may be drawn attention of views in the general direction of the study subject. Hartonin may be drawn attention of views in the general direction of the study subject. Hartonin may be drawn attention to contrast with the surrounding landscape elements or storingly that it is a major focus of visual attention, the view attention immediately and tending to hold that attention, in addition to strong contrast in form, inc., color, and tosture, the view of the surrounding landscape elements or storingly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention in addition to strong contrast in form, inc., color, and tosture, or motion.	ш
on the missed by casual observers, but of doors not strongly attract visual contrast to strongly attract visual datention and insufficient size to occupy most of an observer's visual field. Strongly attracts the visual datention and insufficient size to occupy most of an observer's visual field. Wisbillty level 5. Strongly attracts the visual attention of views in the general direction of the study subject. An object/phenomenon that is not large but contrasts with the surrounding landscape elements or strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition is strong contrast in form, inc., cotor, and texture, burnance, or motion.	
attention of views in the general direction of the study subject. Hartinon may be drawn by the strong contrast in form, line, color, or detective, turnisence, or motion.	
	√
Visibility level. 6 Dominates the view because the study subject fils most of the visual field, and views of it cannot be avoided accept by jurning one is head more than 458 from stranger of the visual field, and views of it cannot be avoided accept by jurning one is head more than 458 from stranger of the visual field, and views of it cannot be avoided accept by jurning one is head more than 458 from the visual from the visual form of the visual field and the visual field and the visual field and visual field	



/isual Impact Assessment	Visual Impact Assessment Personnel: <u>Kiva VanDerGeest</u>	-
•	Кор: <u><i>LBT04</i></u>	_
oate: 2022-08-23 Personnel: Kiva VanDerGeest	Principles of composition, continued: Date: 2022-08-23	_
andscape Similarity Zone: <u>SCA - Undeveloped Beach</u> Key Observation Point Name/Number: <u>LBT04</u>	3. Visual Clutter	
Key Observation Point (KOP) Familiarization	Numerous unrelated built elements occurring within a view can create visual clutter (disrupting the natural order), which generally has an adverse effect on scenic quality.	
andscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.	Does this view contain elements that contribute to visual clutter? 🗹 Yes 🗌 No	
The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes)	If yes, how does the visual clutter affect the view? Massings of sea grass and prints in the sand that form no clear path or pattern allude to activity in the scene that is currently not present. 4. Movement	
General elements of formal visual analysis to be considered include:	Motion of existing and proposed elements in a view can attract viewer attention.	
 Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions, 	Does this view contain elements in motion that are likely to attract viewer attention? ✓ Yes No (If the answer is yes, Note these elements in rating form comments)	
especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or ephemeral landscapes.		
Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character	Factors affecting visual impact:	
of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or lexture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or	Duration of View Some views are seen as quick glimpses while driving along a roadway or hiking a trail, while others are seen for a more prolonged period of time. Longer duration views of a project, especially from significant aesthetic resources, have the greatest potential for visual impact.	
contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.	The duration of this view is: ☑ Short Term/Fleeting ☐ Long-term	
 Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint. 	The frequency of this view is: ☐ Repeated ☑ Occasional	
 Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors. 	6. Atmospheric Conditions Clouds, precipitation, haze, and other ambient weather-related conditions can affect the visibility of an object or objects. These conditions can greatly impact the visibility and contrast of project components with landscape/seascape elements and the design elements of form, line, color, texture, and scale.	
Principles of composition to be considered include:	Conditions in this view can be described as: ☐ Clear ☑ Partly Cloudy ☐ Overcast ☐ Hazy	
1. Focal Point	Conditions that may increase/decrease visibility could be described as: hazy/overcast	
Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape.	7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming toward the observer from behind a feature or elements in a scene. Front lighting refers to a situation where the light source is coming from behind the observer and falling directly upon the area being viewed. Side lighting refers to a viewing situation in which sunlight is coming from overhead or the side of the observer to a feature or elements in a scene. Lighting direction can have a significant effect on the visibility and contrast of landscape and project elements.	
Does this view contain a focal point? Yes No		
If yes, briefly identify/describe: the expanse of open ocean is the central focus of this view, but there is no defined viewpoint within	The relevant lighting condition can be described as:	
2. Order Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.	Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that there is broad public consensus on the value of that particular resource. The characteristics of the resource that contribute to its scenic or recreational value provide guidance in evaluating a project's visual impact on that resource.	
Does this view contain a natural order? ☑ Yes ☐ No If yes, how does the natural order affect the view?	Would viewers consider this location a valued scenic or recreational resource? ☑ Yes ☐ No	
The natural order of the view draws a viewers eye into the frame, and across this level expanse of shoreline, ocean, and toward the distant open horizon.	How would the site be used for scenic or recreational enjoyment? this is a public beach front within the Edwin B. Forsythe NWR	
ATLANTIC SHORES 1 of 6	ATLANTIC SHORES offshore wind	2 of 6

ATLANTIC SHORES offshore wind	1 of 6	ATLANTIC SHORES offshore wind		2 of 6
Visual Impact Assessment Personnel: Kiva Van KOP: LBT04	nDerGeest	Visual Impact Assessment	Personnel: Kiva VanDen	Geest
Existing Conditions Date: 2022-08	23	Proposed Conditions	Date: <u>2022-08-23</u>	
1. In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1 liability to 9 distinct)		With the proposed project in place, rate the aesthetic quality/sensitivity of each resource.	e on a score of 1 to 9 (1 liability to 9 c	distinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Score
	Score		Water Resources:	5
Water Resources:	6		Landform:	3
Landform:	4		Vegetation:	4.5
Vegetation:	4.5		Land Use:	5
Land Use:	7		User Activity:	5
User Activity:	7			
Existing Conditions #1 Total:	28.5	Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct)		
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high density)		Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	8
Special Condition A. Does this zone contain any scenic, cultural, or historic landmarks?	3		.,	8
Special Condition B. Are there other aesthetic elements that add to this resource?	2		Total:	30.5
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/pollution)				30.3
Special Condition C. Is this zone free from pollution and/or litter?	3	3. Comments:		
Existing Conditions #2 Total (Sum 2A through 2C)	8	The introduction of furbines into this view primarily affects the expanse of open ocean previously available, turbines across the view, due to the low elevation the base of the turbines are substantially screened from the horizon. The existing landium is further fathered the position of the viewer begins to feel even for	view and the offshore substations appear sin	nilar to ships on
Existing Conditions Grand Total (Sum #1 Total and #2 Total) 3. Comments:	36.5	vegetation and sea grass available in this view are not affected by the inclusion of the turbines. Land use a now include views of built structures that will draw viewer attention from the surrounding natural features.		
Movement apparent in this scene: ocean waves and clouds		The preservation of undeveloped land within the Forsythe NWR will continue despite the addition of constru	ucted elements in the view.	
This is a beach level view of the open ocean. The low, flat beach places the viewer fully within the scene and looking out toward the distance hort over a scene that they may not be fully integrated into. Vegetation is lacking in this view, although coastal scrubshrub mixes are located behind this location is associated with preservation of wildlife and user activities are focused on enjoyment of natural resources and wildlife.				
This location is within a National Wildlife Reserve, views to the ocean uninterrupted by built structures are available in portions of this beach area in the view.	. No pollution is present			



Personnel: Kiva VanDerGeest Personnel: Kiva VanDerGeest **Visual Impact Assessment** Visual Impact Assessment KOP: *LBT04* KOP: *LBT04* Date: 2022-08-23 Date: 2022-08-23 Proposed Conditions - Compatibility and Contrast Rating **Proposed Conditions** 8. Visibility Threshold Level - Check the box next to the description that most closely describes the visual prominence of the Project from Note: If an element is not present in the view the score should be a 0 (no impact), otherwise, the selected KOP. rating should be a whole number score. Visibility Rating 4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible) An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period. Visibility level 1. Visible only after extended close viewing; otherwise invisible. Water Resources: Land Use: 3 3 An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing, if could sometimes be noticed by casual observers: however, most people would not notice it without some active looking. User Activity: Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers. Landform: 3 3 Vegetation: 12 Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers. An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscapel seascape elements. 5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) $\,$ Water Resources: 3 Land Use: 3 Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject. An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field. Landform: 3 User Activity: 3 Vegetation: 0 Total: 12 6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominant) An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to strong contasts in form, fine, color, and texture, bright ingly sources such as lighting and reflections and moving objects associated with the study subject may contribute substantially of crawing viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements. Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion. Water Resources: Land Use: 2 Landform: User Activity: 2 Vegetation: Total: 10 0 Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction Strong contrasts in form, line, color, texture luminance, or motion may contribute to view dominance. An object/phenomenon with sirong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by turning one's head more than 458 from a direct view of the object. The object/phenomenon is the major focus of visual altertion, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in from, time, color, and feature, bright light courses and moving objects associated with the study subject defracts noticeably from views of other landscape/seascape elements. 7. Comments: The turbines lack compatibility with this low, flat beach view. When turbines are front-lit and difficult to discern on the horizon the impact may decrease but visibility will The dutines also, Companying with a solv, that decid view, with numbers are notine and united to descent on the number of the problems of the solutions of the furthers is severe against the relatively small election for land lacking in other developed features. The extent of furthers becomes a dominant feature in the view compared to the water and landform, but are co-dominant with the undeveloped land use and user activity focused on the natural environment. 9. Comments: consistent with a level 4 VTL as the turbines will continue to draw viewer attention by are unlikely to hold the gaze or distract from other views along the horizor

Visual Impact Assessment	
Date: August 24, 2022	Personnel: Steve Breitzka
Landscape Similarity Zone: Undeveloped Beach	Key Observation Point Name/Number: LBT04
Key Observation Point (KOP) Familiarizati	on
Landscape/seascape, viewer, and related factors to be consider	red during evaluation of the KOP are outlined below.
	corporated into the scoring and comments on the VIA assessment form servations and should be completed quickly, taking no more than 5 minutes)
General elements of formal visual analysis to be consid	dered include:
their spatial arrangement. Basic landscape component	nt of objects and voids in the landscape that can be categorized by is include vegetation, landform, water, and sky. Some compositions, alled, or feature-oriented, are more vulnerable to modifications than
of a landscape/seascape, as well as a project. Form re edge, outline, and surrounding space. Line refers to the or texture, usually evident as the edges of shapes or m the visual surface characteristics of an object. The exte	sajor compositional elements that define the perceived visual character fers to the shape of an object that appears unified, often defined by e path the eye follows when perceiving abrupt changes in form, color, asses in the landscape/seascape. Texture, in this context, refers to int to which form, lime, color, and texture of a project are similar to or scapes/seascape is a primary determinant of visual impact.
 Spatial Dominance: The degree to which an object or and thus dominates seascape composition from a spec 	landscape/seascape element occupies space in a landscape/seascape cific viewpoint.
	ct in relation to its surroundings can define the compatibility of its scale le is likely to vary depending on the distance from which it is seen and
Principles of composition to be considered include	0;
1. Focal Point	
physical characteristics. Focal points often contrast wi tend to draw a viewer's attention. Examples include pr	itures stand out and are particularly noticeable as a result of their th their surroundings in color, form, scale, or texture, and therefore rominent frees, monutains, or cultural features, such as a distinctive be asted so as to obscure or compete with important existing focal points
Does this view contain a focal point? Yes	□ No
If yes, briefly identify/describe:	
2. Order	Commence of the Commence of th
by displaying traditional or logical patterns of land use this natural order may detract from scenic quality. Why	der datermined by natural processes. Cultural landscapee swhibit order- "iddevelopment. Dements in the landscape that are inconsistent with en a new project is introduced to the fandscape, infactness and order, is, colors, and textures existing in the surrounding built or natural
Does this view contain a natural order? we lives, how does the natural order affect the view?	

Simple three part order to this view consisting of sandy beach, open water, and doudy sky. There are no built structures present in the Simulated Photograph Extent although there is a jetty / breakwall outside the Extent to the left.

sual Impact Assessment	Personnel: Steve Breitzka
Section 1	KOP: LBT04
Principles of composition, continued:	Date: August 24, 2022
 Visual Clutter Numerous unrelated built elements occurring within a view can create adverse effect on scenic quality. 	visual clutter (disrupting the natural order), which generally has an
Does this view contain elements that contribute to visual clutter?	☐ Yes ☑ No
If yes, how does the visual clutter affect the view?	
Movement Motion of existing and proposed elements in a view can attract viewer	attention.
Does this view contain elements in motion that are likely to attract	t viewer attention? 🗹 Yes 🔲 No
(If the answer is yes, Note these elements in rating form commen	to)
Factors affecting visual impact:	
 Duration of View Some views are seen as quick glimpses while driving along a roadwo of time. Longer duration views of a project, especially from significant 	
The duration of this view is; Short Term/Fleeting Long-	Herm
The frequency of this view is: Repeated Occasional	
 Atmospheric Conditions Clouds, precipitation, haze, and other ambient weather-related condi- can greatly impact the visibility and contrast of project components witne, color, texture, and scale. 	
Conditions in this view can be described as: Clear Part	tly Cloudy 🗹 Overcast 🔲 Hazy
Conditions that may increase/decrease visibility could be describ	yed as: Would expect haze to obscure the horizon, it is clear at all three terms of day in this view.
7. Lighting Direction Backichting refers to a viewing situation in which sunlight is coming Front lighting refers to a situation where the light source is coming for viewed. Side lighting refers to a viewing situation in which surlight is elements in a scene. Lighting direction can have a significant effect or	toward the observer from behind a feature or elements in a scene. m behind the observer and falling directly upon the grae being coming from overhead or the side of the observer to a feature or
The relevant lighting condition can be described as: backlif [☐ frontlit ☑ side-lit
Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that resource. The characteristics of the resource that contribute to its scenisual impact on that resource.	
Would viewers consider this location a valued scenic or recreational	resource? Ves No
How would the site be used for scenic or recreational enjoyment? y	Vide open sandy beach is inviting and the Wildlife Refuge has a variety if flora and fauna in multiple types of habital.

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Visual Impact Assessment	Personne	el: Steve Breitzki	1	Visual Impact As	sessment	Personnel: Steve Breitz	ка
a triangle and and the same of	ко	P: LBT04		rioddi iiipadtrio	oodomone	KOP: LBT04	
Existing Conditions	Dat	te: August 24, 20	22	Proposed Conditions		Date: August 24, 2	2022
	ensitivity of each resource on a score of 1 to 9 (1 liability to	9 distinct)		The comment of the control of the co	ate the aesthetic quality/sensitivity of each resourc	e on a score of 1 to 9 (1 liability to 9	distinct)
	re should be 4.5 of 9.0 (no impact), otherwise, rating should			Note: If an element is not present in the v	ew the score should be 4.5 of 9.0 (no impact).		Score
be a whole number score.			Score	otherwise, rating should be a whole numb	er score.	Water Resources:	1
	Water F	Resources:	9				
						Landform:	4.5
		Landform:	4.5			Vegetation:	4.5
		/egetation:	4.5			Land Use:	1
		Land Use:	9			User Activity:	1
	Us	er Activity:	9			14.0	
	Existing Conditions	s #1 Total:	36	2 Collectively rate special conditions	on a score of 0 to 9 (0 liability to 9 distinct)		
2. Respond to each question below using a score		a w r Totali.	30	Note: Special Conditions score is taken of	rectly from Existing Continions #2 Total and can		
	his zone contain any scenic, cultural, or historic la	andmarke?	3	be adjusted up or down based upon the F	roposed Conditions view.	Special Conditions:	3
200	are there other aesthetic elements that add to this	resource?	3			Total:	15
Respond to each question below using a score of	f 0 to 3 (0 littered/polluted to 3 free of litter/pollution)						-
Spec	cial Condition C. Is this zone free from pollution ar	nd/or litter?	3	3. Comments:			
	Existing Conditions #2 Total (Sum 2A th	rough 2C)	9	The proposed turbines create a significant sh massing is accentuated by the lines of structuable to see the full breadth of the field.	It in the serene open water view. Even at nearly 12 miles aw res extending further into the scene. When aligned, the turbin	ay, the turbines are clearly visible across th nes appear darker and heavier, when stagg	e entire view. The pered, the viewer is
4.0				The turbines are equally visible at sunrise and the sky, filled by a thin and hazy cloud cover.	at noon, though they disappear into the douds at ourset. The horizon remains a clean and crisp line through the view	despite the hazy appearance of the sky.	res to blend with
3. Comments:	sting Conditions Grand Total (Sum #1 Total and	d #2 Total)	45	Water movement is consistent at all three tim	is of day depicted: calm further out from shore with low wave	s cresting at the beach.	
ATLANTIC SHORES offshore wind			3 of 6	ATLANTIC SHORES offshore wind			4 0
Visual Impact Assess	Personn	el: Steve Breitzka	1	Visual Impact Assessi	nent	Personnel: Steve Breitz	ka
Visual IIIIpact Assess		P: LBT04		Tional Impact Toolson		KOP: LBT04	
Brancos Conditions Compat	billifer and Contract Poting	te: August 24, 20	22	Designed Conditions		Date: August 24, 2	2022
	IDHITY and Contrast Rating I an element is not present in the view the score should be a 0 (reshould be a whole number score.	no impact), otherwise	è	Proposed Conditions 8. Visibility Threshold Level - Check th the selected KOP:	box next to the description that most closely desc	cribes the visual prominence of the P	Project from
4. Rate the compatibility of the proposed project	on a scale of 1 to 3 (1 compatible to 3 not compatible)			Visibility Rating	Description		
Water Resources:	3 Land Use;	3		Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visit who was unaware of it in advance and looking for it. Even it	under those circumstances, the object	
Landform:	User Activity:	3		Visibility level 2. Visible when scanning in	can be seen only after looking at it closely for an extended. An object/phenomenon that is very small and/or faint, but v	when the observer is scanning the	
Vegetation:	O Total:	9		the general direction of the study subject: otherwise likely to be missed by casual observers.	horizon or looking more closely at an area, can be detected sometimes be noticed by casual observers; however, most some active looking.	d without extended viewing. It could people would not notice it without	
5. Rate scale contrast of the proposed project on	a scale of 1 to 3 (1 minimal to 3 severe)			Visibility level 3. Visible after a brief glarice in the general direction of the study subject and unlikely to be missed by casual	An object/phenomenon that can be easily detected after a most casual observers, but without sufficient size or contra- seascace elements.	binef look and would be visible to st to compete with major landscape/	
Water Resources:	3 Land Use:	3		observers	Property and Automotive		
Landform:	User Activity:	3		Visibility level 4. Plainly visible, so could not be missed by casual observers, but	An object/phenomenon that is obvious and with sufficient s landscape/seascape elements, but with insufficient visual of	contrast to strongly attract visual	
Vegetation:	200. 13			does not strongly attract visual attention or dominate the view because of its apparent	attention and insufficient size to occupy most of an observe	or a visual selo,	
6. Rate spatial dominance of the proposed project	O Total:	9		size, for views in the general direction of			
	Total:			size, for views in the general direction of the study subject.			
	on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 domin	nant)		size, for views in the general direction of the study subject. Visibility level 5. Strongly altracts the visual attention of views in the general direction of	An object/phenomenon that is not large but contrasts with so strongly that it is a major focus of visual attention, draw	the surrounding landscape elements no viewer attention introductely and	
Water Resources:	at on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominant,	nant)		size, for views in the general direction of the study subject. Visibility level 5. Strongly altracts the visual	so strongly that it is a major focus of visual attention, drawl tending to hold that attention. In addition to strong contrasts bright light, sources such as lighting and reflectional and mo subject may contribute substantially to drawing viewer atten-	the surrounding landscape elements no viewer attention immediately and in form, life, cotor, and texture, viving objects associated with the study.	
Water Resources: Landform:	ct on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominant, 3 dominant, 3 dominant, 3 dominant, 3 dominant, 3 dominant, 2 co-dominant, 3 dominant, 3 domina	nant)		size, for views in the general direction of the study subject. Visibility tevel 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the atrong contrast in form, line, color, or	so strongly that it is a major focus of visual attention, drawi tending to hold that attention. In addition to strong contrasts	the surrounding landscape elements no viewer attention immediately and in form, life, cotor, and texture, viving objects associated with the study.	
Water Resources: Landform: Vegetation:	at on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominant,	nant)		aion, for views in the general direction of the study subject. Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contract in form, limit, ecolor, or leakare, surmissions, of molton. Visibility level 6. Dominates the view bocause the study subject filts most of the visual field for views in its general direction. Strong contrasts in form, line, color, feature, uminarous, or motion may contribute to	so strongly that it is a major focus of visual attention, drawle tending to hold that alteration in addition is strong contrasts bright light sources such as lighting and reflectional and me subject may contribute publishment of drawing viewer after study subject interferes notionably with views of nearby lan and other study subject interferes notionably with views of nearby lan visual facility. And the study of the study of the study visual facility and the study of the study of the study of active view of the object. The object/promonens is the larger apparent size is a major factor in its view dominance, line, color, and nature, pright light sources and moving of larger.	the surrounding landscape elements no viewer attention immediately and in form, line, color, and texture, viving objects associated with the study folion. The visual prominence of the discrepartive elements. so large that it occupies most of the many focus of visual attention, and its in addition to size, contrasts in form, cut associated with the study subject.	
Water Resources: Landform: Vegetation: 7. Comments:	ct on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominant, 3 dominant, 3 dominant, 3 dominant, 3 dominant, 3 dominant, 2 co-dominant, 3 dominant, 3 domina	3 3 9	d water converge	size, for views in the general direction of the study subject. Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the atrong contrast in form, line, color, or leskule, luminance, or motion. Visibility level 6. Dominates the view bookune the study subject fills most of the visual field for views in its general direction: Strong contrasts in form, line, color, feature.	so strongly that it is a major focus of visual attention, drawle learning to hold that alterition in addition is strong controlled bright fight sources such as lighting and reflections and mo subject may controlled solubilities that otherwise viewer all subject may controlled solubilities that otherwise the study subject indefinition solubilities to drawing view all and a strongly solubilities and the strong visual corresponds that is a direct view of the object. The object/phenomenon is the re- liging appeared issue in a major factor in its view domination in larger appeared issue in a major factor in its view domination.	The surrounding landscape elements no viewer alterition immediately and in form line, color, and texture, the proving objects associated with the study objects. The visual protrintence of the etroporture opin elements. so large that it occupies most of the mining one's head more than 455 from napor focus of visual attention, and list in addition to six contrisists in form, etc. associated with the study subject or visual promisersor of the study.	

The proposed furbines are fully visible and extend across the entire length of the view. The time of day obscures them, blending with the sky, though their motion but not in a consistent and linear fashion like the turbines,

Key Observation Point (KOP) Familiarization and scape/seascape, viewer, and related factors to be considered dur free effect of the proposed Project on these factors should be incorpor.	ated into the scoring and comments on the VIA assessment form one and should be completed quickly, taking no more than 5 minu	Numerous unrelated built elements occurring within a view can create visual clutter (disr adverse effect on scenic quality. Does this view contain elements that contribute to visual clutter? Yes If yes, how does the visual clutter affect the view? 4. Movement	
Landscape Similarity Zone: <u>Undeveloped Bay</u> Key Observation Point (KOP) Familiarization Landscape/seascape, viewer, and related factors to be considered dur The effect of the proposed Project on these factors should be incorpor proposed conditions). (This form is intended to record initial observations)	Key Observation Point Name/Number: LEHT02 Great Bay ing evaluation of the KOP are outlined below. sted into the scoring and comments on the VIA assessment form one and should be completed quickly, taking no more than 5 minutes.	3. Visual Clutter Numerous unrelated built elements occurring within a view can create visual clutter (disr adverse effect on scenic quality. Does this view contain elements that contribute to visual clutter? Yes 1 If yes, how does the visual clutter affect the view? 4. Movement	rupting the natural order), which generally has an
Key Observation Point (KOP) Familiarization Landscape/seascape, viewer, and related factors to be considered dur The effect of the proposed Project on these factors should be incorpor (proposed conditions). (This form is intended to record initial observations)	ing evaluation of the KOP are outlined below. ated into the scoring and comments on the VIA assessment form one and should be completed quickly, taking no more than 5 mine.	Numerous unrelated built elements occurring within a view can create visual clutter (disr adverse effect on scenic quality. Does this view contain elements that contribute to visual clutter? Yes If yes, how does the visual clutter affect the view? 4. Movement	
Landscape/seascape, viewer, and related factors to be considered during the effect of the proposed Project on these factors should be incorpor (proposed conditions). (This form is intended to record initial observations)	ated into the scoring and comments on the VIA assessment form one and should be completed quickly, taking no more than 5 minu	adverse effect on scenic quality. Does this view contain elements that contribute to visual clutter? Yes I ff yes, how does the visual clutter affect the view? 4. Movement	
The effect of the proposed Project on these factors should be incorpor, (proposed conditions). (This form is intended to record initial observation)	ated into the scoring and comments on the VIA assessment form one and should be completed quickly, taking no more than 5 minu	If yes, how does the visual clutter affect the view? 4. Movement	No
(proposed conditions). (This form is intended to record initial observations)	ons and should be completed quickly, taking no more than 5 min	(fes) 4. Movement	
		4. Movement	
Conoral alaments of formal viewal analysis to be considered i	nclude:		
General elements of formal visual analysis to be considered i		Motion of existing and proposed elements in a view can attract viewer attention.	
 Landscape/Seascape Composition: The arrangement of of their spatial arrangement. Basic landscape components inclu 	de vegetation, landform, water, and sky. Some compositions,	Does this view contain elements in motion that are likely to attract viewer attention? (If the answer is yes. Note these elements in rating form comments)	Yes No
especially those that are distinctly focal, enclosed, detailed, o panoramic, canopied, or ephemeral landscapes.	r feature-oriented, are more vulnerable to modifications than		
	impositional elements that define the perceived visual character	Factors affecting visual impact:	
of a landscape/seascape, as well as a project. Form refers to	the shape of an object that appears unified, often defined by the eye follows when perceiving abrupt changes in form, color,	5. Duration of View	
or texture, usually evident as the edges of shapes or masses the visual surface characteristics of an object. The extent to w	in the landscape/seascape. Texture, in this context, refers to	Some views are seen as quick glimpses while driving along a roadway or hiking a trail, of time. Longer duration views of a project, especially from significant aesthetic resource.	
contrast with these same elements in the existing landscape/s		The duration of this view is: ☐ Short Term/Fleeting ☑ Long-term	
 Spatial Dominance: The degree to which an object or landsor and thus dominates seascape composition from a specific vie 	cape/seascape element occupies space in a landscape/seascape wpoint.	The frequency of this view is: Repeated Occasional	
 Project Scale: The apparent size of a proposed project in rel 		6. Atmospheric Conditions	
within the existing seascape. Perception of project scale is lik other contextual factors.	ely to vary depending on the distance from which it is seen and	Clouds, precipitation, haze, and other ambient weather-related conditions can affect the can greatly impact the visibility and contrast of project components with landscape/seat line, color, texture, and scale.	
Principles of composition to be considered include:		Conditions in this view can be described as: 🗹 Clear 🗆 Partly Cloudy 🔲 Ov	ercast Hazy
1. Focal Point		Conditions that may increase/decrease visibility could be described as: Moisture in	the air could impact visibility.
Certain natural or man-made landscape/seascape features s		7. Lighting Direction	
physical characteristics. Focal points often contrast with their tend to draw a viewer's attention. Examples include promine lighthouse. If possible, a proposed project should not be siter in the landscape/seascape.		Backlighting refers to a viewing situation in which sunlight is coming toward the observe	erver and falling directly upon the area being head or the side of the observer to a feature or
Does this view contain a focal point? Yes No			
If yes, briefly identify/describe: The view is pretty balanced wi	th the general focus happening across the horizon line.	The relevant lighting condition can be described as: backlit frontlit s e	side-lit
2. Order			
by displaying traditional or logical patterns of land use/develop-	ermined by natural processes. Cultural landscapes exhibit order prement. Elements in the landscape that are inconsistent with w project is introduced to the landscape, intactness and order is, and textures existing in the surrounding built or natural	8. Scenic or Recreational Value Designation as a sonic or recreational resource is an indication that there is broad put resource. The characteristics of the resource that contribute to its scenic or recreational visual impact on that resource.	olic consensus on the value of that particular I value provide guidance in evaluating a project's
Does this view contain a natural order? Yes If yes, how does the natural order affect the view?	lo	Would viewers consider this location a valued scenic or recreational resource? Yes	es 🗆 No
This iview has a natural layering of shoreline in the foreground, water	r in the mid-ground, punctuated by the horizon line and open sky above.	How would the site be used for scenic or recreational enjoyment? Local residents, touris occasion	sts and fishermen may enjoy this viewpoint on
ATLANTIC SHORES offshore wind		of 6 ATLANTIC SHORES	2 0

this natural order may detract from scenic quality. When a new project are maintained through the repetition of the forms, lines, colors, and te environment.			Designation as a scenic or recreational resource is an indication that there is broad p resource. The characteristics of the resource that contribute to its scenic or recreation visual impact on that resource.	ublic consensus on the value of that partic nal value provide guidance in evaluating a	ular project's
Does this view contain a natural order? ☑ Yes ☐ No If yes, how does the natural order affect the view?			Would viewers consider this location a valued scenic or recreational resource? 🗹	Yes No	
This iview has a natural layering of shoreline in the foreground, water in the mid-	-ground, punctuated by the horizon line and open sky	above.	How would the site be used for scenic or recreational enjoyment? Local residents, to occasion	urists and fishermen may enjoy this viewpoint or	n
ATLANTIC SHORES offshore wind		1 of 6	ATLANTIC SHORES offshore wind		2 of 6
Visual Impact Assessment	Personnel: <u>Jocelyn Gavi</u>		Visual Impact Assessment	Personnel: Jocelyn Gavitt	
	KOP: <u>LEHT02 Grea</u>	nt Bay Bog	·	KOP: <u>LEHT02 Great</u>	Bay Bon
Existing Conditions	Date: 2/17/21		Proposed Conditions	Date: 2/17/21	
1. In the existing view rate the aesthetic quality/sensitivity of each resource on a se	core of 1 to 9 (1 liability to 9 distinct)		With the proposed project in place, rate the aesthetic quality/sensitivity of each resour.	ce on a score of 1 to 9 (1 liability to 9 di	stinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), be a whole number score.	otherwise, rating should		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Score
		Score		Water Resources:	2
	Water Resources:	8		Landform:	4
	Landform:	7		Vegetation:	4
	Vegetation:	7		Land Use:	3
	Land Use:	7		User Activity:	3
	User Activity:	6			
	Existing Conditions #1 Total:	35	2. Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct)		
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being	g high density)		Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	4
Special Condition A. Does this zone contain any scenic	, cultural, or historic landmarks?	2		.,	4
Special Condition B. Are there other aesthetic electrons	ments that add to this resource?	2		Total:	20
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 fre	e of litter/pollution)				
Special Condition C. Is this zone	e free from pollution and/or litter?	2	3. Comments:		
Existing Conditions	#2 Total (Sum 2A through 2C)	6	The proposed turbine field is highly visible in the open water and becomes the focus of the view. D seen across a good portion of the horizon. These turbines span a large area of open water and pen		
Existing Conditions Grand Total 3. Comments:	tal (Sum #1 Total and #2 Total)	41			
This view is dominated by the open water, framed by some meandering shoreline and veget distance and some built conditions can be seen in the far distance. The horizon line general		view in the			



Visual Impact Assessment Personnel: Jocelyn Gavitt KOP: LEHT02 Great Bay Box Date: 2/17/21 Proposed Conditions - Compatibility and Contrast Rating Note: If an element is not present in the view the score should be a 0 (no impact), otherwise, rating should be a whole number score. 4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible) Water Resources: Land Use: 2 3 Landform: 2 User Activity: 2 Vegetation: Total: 11 5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) Water Resources: 3 Land Use: Landform: 2 User Activity: 2 Vegetation: 2 Total: 11 6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominant) Water Resources: Land Use: 2 Landform: User Activity: 3 Vegetation: Total: 2 12 7. Comments: The turbines become the focal point in this view. They completely cover the open water view and occupy the horizon line. They create a "built" condition in the water that spans the entire area.

ATLANTIC SHORES offshore wind

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Visual Impact Assessment

Personnel: <u>Jocelyn Gavitt</u>

KOP: LEHT02 Great Bay Box

Date: 2/17/21

Proposed Conditions

8. Visibility Threshold Level - Check the box next to the description that most closely describes the visual prominence of the Project from the selected KOP.

Visibility Rating	Description	
Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more loosely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	
Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape-searcage elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object phenomenon that is not large but contrasts with the surrounding landscape elements as strongly that it is a major focus of visual abstraction, drawing viewer attention immediate and ending to hold that attention. In addition, to strong contrasts in form, line, color, and texture, bright light sources such as lighting and reflections! and moving objects associated with the study subject may contribute substantially ordawing viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	
Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, lexture, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual flaid, and views of it cannot be avoided except by turning one's head more than 45" from a direct view of the object. The object/phenomenon is the major foous of visual attention, and rits large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, cotor, and textive, bright light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject defracts noticeably from views of other landscapelseascape elements.	✓

9. Comments:

The proposed conditions are highly noticeable and will capture the viewer's attention as a focus.

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Date: 17 February 2021	Personnel: KAC
Landscape Similarity Zone: Undeveloped Bay	Key Observation Point Name/Number: <u>LEHT02 GBB WMA</u>
Key Observation Point (KOP) Familiarizat	tion
Landscape/seascape, viewer, and related factors to be consider	ered during evaluation of the KOP are outlined below.
	ncorporated into the scoring and comments on the VIA assessment form bservations and should be completed quickly, taking no more than 5 minutes
General elements of formal visual analysis to be consi	idered include:
their spatial arrangement. Basic landscape componer	ent of objects and voids in the landscape that can be categorized by its include vegetation, landform, water, and sky. Some compositions, tailed, or feature-oriented, are more vulnerable to modifications than
of a landscape/seascape, as well as a project. Form r edge, outline, and surrounding space. Line refers to it or texture, usually evident as the edges of shapes or the visual surface characteristics of an object. The ext	major compositional elements that define the perceived visual character effers to the shape of an object that appears unified, often defined by he path the eye follows when perceiving abrupt changes in form, color, masses in the landscappiSeascape. Texture, in this context, refers to tent to which form, line, color, and texture of a project are similar to or dscape/Seascape is a primary determinant of visual impact.
Spatial Dominance: The degree to which an object of and thus dominates seascape composition from a spear.	or landscape/seascape element occupies space in a landscape/seascape ecific viewpoint.
	ect in relation to its surroundings can define the compatibility of its scale ale is likely to vary depending on the distance from which it is seen and
Principles of composition to be considered include	de:
1. Focal Point	
Certain natural or man-made landscape/seascape fe physical characteristics. Focal points often contrast w tend to draw a viewer's attention. Examples include p	altures stand out and are particularly noticeable as a result of their with their surroundings in color, form, scale, or texture, and therefore prominent trees, mountains, or cultural features, such as a distinctive t
Does this view contain a focal point? <a> Yes	□ No
If yes, briefly identify/describe: Dark landmass, horiz	zon line and puffy clouds in the sky.
2. Order	
by displaying traditional or logical patterns of land us this natural order may detract from scenic quality. Wh	rder determined by natural processes. Cultural landscapes exhibit order eddevelopment. Elements in the landscape that are inconsistent with hen a new project is introduced to the landscape, intactness and order les, colors, and textures existing in the surrounding built or natural
Does this view contain a natural order? Yes	

Pebbled beach sand, sea grass, bay and background land mass to horizon; the horizontal qualities of the landscape are interrupted by the

Visual Impact Assessment	Personnel: KAC
	KOP: <u>LEHT02 GBB WMA</u>
Principles of composition, continued:	Date:_17 February 2021
 Visual Clutter Numerous unrelated built elements occurring within a view can create visual adverse effect on scenic quality. 	clutter (disrupting the natural order), which generally has an
Does this view contain elements that contribute to visual clutter?	Yes ☑ No
If yes, how does the visual clutter affect the view? N/A	
4. Movement	
Motion of existing and proposed elements in a view can attract viewer attenti	ion.
Does this view contain elements in motion that are likely to attract viewe	er attention? Yes No
(If the answer is yes, Note these elements in rating form comments)	
Factors affecting visual impact:	
5. Duration of View	
Some views are seen as quick glimpses while driving along a roadway or hi of time. Longer duration views of a project, especially from significant aesth	
The duration of this view is: \square Short Term/Fleeting \square Long-term	
The frequency of this view is: $\ \ \ \ \ \ \ \ \ \ \ \ \ $	
6. Atmospheric Conditions	
Clouds, precipitation, haze, and other ambient weather-related conditions or can greatly impact the visibility and contrast of project components with land line, color, texture, and scale.	
Conditions in this view can be described as: Clear Partly Clou	udy Overcast Hazy
Conditions that may increase/decrease visibility could be described as:	Clear sky conditions would accentuate the turbines.
7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming toward Front lighting refers to a situation where the light source is coming from beh viewed. Side lighting refers to a viewing situation in which sunlight is coming elements in a scene. Lighting direction can have a significant effect on the v	ind the observer and falling directly upon the area being g from overhead or the side of the observer to a feature or
The relevant lighting condition can be described as: $\ \square\ $ backlit $\ \square\ $ fro	ntlit 🗹 side-lit
8. Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that there resource. The characteristics of the resource that contribute to its scenic or visual impact on that resource.	
Would viewers consider this location a valued scenic or recreational resource	ce? 🗹 Yes 🗆 No
How would the site be used for scenic or recreational enjoyment? Great Ba	ay WMA, Little Egg Harbor Life Saving Station #23



1 of 6

foreground tufted grasses and spit of grass extending into the bay waters.

Visual Impact Assessment Personnel: KAC		Visual Impact Assessment	Personnel: KAC	
КОР: <u>LEHT02 GE</u>	BB WMA	Visual impact / issues into it	KOP: <u>LEHT02 GBB</u>	WMA
Existing Conditions Date: 17 Februar	ry 2021	Proposed Conditions	Date: 17 February 2	021
In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1 liability to 9 distinct)		With the proposed project in place, rate the aesthetic quality/sensitivity of each res	source on a score of 1 to 9 (1 liability to 9 d	stinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Score
	Score		Water Resources:	5
Water Resources:	6		Landform:	6
Landform:	7		Vegetation:	6
Vegetation:	7		Land Use:	6
Land Use:	6		User Activity:	5
User Activity:	6			
Existing Conditions #1 Total:	32	Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct)		
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high density)		Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	3
Special Condition A. Does this zone contain any scenic, cultural, or historic landmarks?	1			3
Special Condition B. Are there other aesthetic elements that add to this resource?	1		Total:	31
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/pollution)				
Special Condition C. Is this zone free from pollution and/or litter?	1	3. Comments:		
Existing Conditions #2 Total (Sum 2A through 2C)	3	The addition of the proposed Project in the view radically changes viewer's experience of the WI refined than the sandy beach areas found in other areas of the study area, however, the rugged	lness of the landscape is what makes the view in	teresting and it
Existing Conditions Grand Total (Sum #1 Total and #2 Total) 3. Comments:	35	is in keeping with what is typically associated with a wilderness management area. The addition area experience, especially as the turbines emanate from the area to the far right side of the vier forms into this location. The size of the wind farm at 11.91-miles to the closest turbine is a near, dominates the viewer's attention from this vantage point.	w that includes Atlantic City, bringing the man-m	ade and built
Cultural Historic: Great Bay WMA, Little Egg Harbor Life Saving Station #23				
Aesthelic: Interesting marsh edge fringe that extends into the bay.				
Litter: Limited visitor litter.				
Summary of View: The vegetated, pebbled beach edge is an extension of the grass land behind the viewer. The marsh fringe is visually into interveaves the water and earth elements together, however, this settling is most advantageous for walking and birding activities not recreate can be assumed that most skilost to this remote location are are taking the potential wildlife in the WMA versus beach lounging, therefore, it will be moving through the site more rapidly than resting on the beach.	ional beach use. It			
ATLANTIC SHORES offshore wind	3 of 6	ATLANTIC SHORES offshore wind		4 of
Visual Impact Accoccment Personnel: KAC		Visual Impact Assessment	Personnel: KAC	

On prove versa				Ortaliote relia	
Visual Impact Assessi	ment	Pers	sonnel: <i>KAC</i> KOP: <i>LEHT02 GBB WMA</i>	Visual Impact Assess	ment
		ent in the view the score should be	Date: <u>17 February 2021</u> e a 0 (no impact), otherwise,	Proposed Conditions 8. Visibility Threshold Level - Check the selected KOP.	ne box next to the description that most closel
Rate the compatibility of the proposed project on	a scale of 1 to 3 (1	compatible to 3 not compatible)		Visibility Rating	Descrip
Water Resources:	2.5	Land Use:	1	Visibility level 1. Visible only after extended close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limi who was unaware of it in advance and looking for it can be seen only after looking at it closely for an ex
Landform: Vegetation:	1	User Activity: Total:	8.5	Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or fail horizon or looking more closely at an area, can be sometimes be noticed by casual observers; however some active looking.
5. Rate scale contrast of the proposed project on a		•		Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected most casual observers, but without sufficient size or seascape elements.
Water Resources: Landform:	3	Land Use:	1	Visibility level 4. Plainly visible, so could	An object/phenomenon that is obvious and with suf
Vegetation:	1.5	User Activity: Total:	9.5	not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	landscape/seascape elements, but with insufficient attention and insufficient size to occupy most of an
6. Rate spatial dominance of the proposed project of	on a scale of 1 to 3 (1	1 subordinate, 2 co-dominant, 3	dominant)	Visibility level 5. Strongly attracts the visual	An object/phenomenon that is not large but contras
Water Resources:	2.5	Land Use:	1	attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or	 so strongly that it is a major focus of visual attention tending to hold that attention. In addition to strong or bright light sources such as lighting and reflections!
Landform: Vegetation:	1.5	User Activity: Total:	9	texture, luminance, or motion.	subject may contribute substantially to drawing view study subject interferes noticeably with views of nea
7. Comments:	1.3	iolai.	7	Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture luminance, or motion may contribute to view dominance.	
Compatibility: The 11.91-mile viewing distance brings the the horizon further emphasizes their proximity and contra			he view. The visual clarity of the turbines on		
Scale: The installed turbines are clearly visible and their between the bay and the sky.	height and disorganize	d pattern and overlap is what active	ly dominates the center portion of the view		
Spatial Dominance: The marsh grass fringe and open bay comparison with the moving rotor blades, therefore, the v themselves along the horizon line.				9. Comments:	

Visibility Rating isibility level 1. Visible only after extended,	Description An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person	
ose viewing; otherwise invisible.	who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
isibility level 2. Visible when scanning in te general direction of the study subject; therwise likely to be missed by casual bservers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
isibility level 3. Visible after a brief glance the general direction of the study subject and unlikely to be missed by casual bservers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	
isibility level 4. Plainly visible, so could of be missed by casual observers, but oes not strongly attract visual attention or ominate the view because of its apparent ze, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
isibility level 5. Strongly attracts the visual tlention of views in the general direction of se study subject. Attention may be drawn by the strong contrast in form, line, color, or exture, luminance, or motion.	An objectlyhenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to strong contrasts in form, line, color, and lexture, bright light sources such as lighting and reflectional and moving objects associated with the study subject may contribute substratially for drawing viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	
isibility level 6. Dominates the view ecause the study subject fills most of the suaf field for views in its general direction. trong contrasts in form, line, color, texture, minance, or motion may contribute to ew dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by furning one's head more than 45' from a direct view of the object. The object/phenomenon is hemajor focus of visual altertion, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, color, and tedrue, tripfil light cources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.	✓



ATLANTIC SHORES

Jisual Impact Assessment		Visual Impact Assessment	Personnel: KV
Visual Impact Assessment		Visual impact /155655inent	KOP: LEHT02 - Great Bay Vt
Date: 02-18-2021	Personnel: KV	Principles of composition, continued:	Date: 02-18-2021
andscape Similarity Zone: <u>Undeveloped Bay</u>	Key Observation Point Name/Number: <u>LEHT02 - Great Ba</u>	3. Visual Clutter	
Key Observation Point (KOP) Familiariza	ation	Numerous unrelated built elements occurring within a view can create visual adverse effect on scenic quality.	
andscape/seascape, viewer, and related factors to be considered.	dered during evaluation of the KOP are outlined below.	Does this view contain elements that contribute to visual clutter?	/es ☑ No
The effect of the proposed Project on these factors should be	incorporated into the scoring and comments on the VIA assessment form	If yes, how does the visual clutter affect the view?	
	observations and should be completed quickly, taking no more than 5 min		
General elements of formal visual analysis to be con	sidered include:	Motion of existing and proposed elements in a view can attract viewer attention	un.
 Landscape/Seascape Composition: The arranger 	nent of objects and voids in the landscape that can be categorized by	Does this view contain elements in motion that are likely to attract viewer	attention? Ves No
	ents include vegetation, landform, water, and sky. Some compositions, etailed, or feature-oriented, are more vulnerable to modifications than	(If the answer is yes, Note these elements in rating form comments)	
	r major compositional elements that define the perceived visual character	Factors affecting visual impact:	
of a landscape/seascape, as well as a project. Form	refers to the shape of an object that appears unified, often defined by	5. Duration of View	
or texture, usually evident as the edges of shapes of	the path the eye follows when perceiving abrupt changes in form, color, r masses in the landscape/seascape. Texture, in this context, refers to	Some views are seen as quick glimpses while driving along a roadway or hik of time. Longer duration views of a project, especially from significant aesthe	ing a trail, while others are seen for a more prolonged period etic resources, have the greatest potential for visual impact.
	xtent to which form, line, color, and texture of a project are similar to or ndscape/seascape is a primary determinant of visual impact.	The duration of this view is: ☐ Short Term/Fleeting ☑ Long-term	
 Spatial Dominance: The degree to which an object and thus dominates seascape composition from a spatial 	or landscape/seascape element occupies space in a landscape/seascapecific viewpoint.	e The frequency of this view is: ☐ Repeated ☑ Occasional	
	ject in relation to its surroundings can define the compatibility of its scale cale is likely to vary depending on the distance from which it is seen and	 Atmospheric Conditions Clouds, precipitation, haze, and other ambient weather-related conditions ca can greatly impact the visibility and contrast of project components with land line, color texture, and scale. 	
Principles of composition to be considered inclu	ude:	Conditions in this view can be described as: ☐ Clear ☑ Partly Cloud	dy Overcast Hazy
1. Focal Point		Conditions that may increase/decrease visibility could be described as:	overcast or hazy conditions would decrease visibility
	features stand out and are particularly noticeable as a result of their with their surroundings in color, form, scale, or texture, and therefore	7. Lighting Direction	
tend to draw a viewer's attention. Examples include	with their surroutings in colon, form, scale, or texture, and interence prominent frees, mountains, or cultural features, such as a distinctive of be sited so as to obscure or compete with important existing focal point	Backlighting refers to a viewing situation in which sunlight is coming toward to Front lighting refers to a situation where the light source is coming from behit viewed. Side lighting refers to a viewing situation in which sunlight is coming elements in a scene. Lighting direction can have a significant effect on the vi	nd the observer and falling directly upon the area being from overhead or the side of the observer to a feature or
Does this view contain a focal point? <a> Yes			
If yes, briefly identify/describe: Salt Marsh grasses	on the left side of the view stretch out and point to a span of landform on the horizon.	The relevant lighting condition can be described as: 🗾 backlit 🔲 from	ntlit 🔲 side-lit
2. Order			
	order determined by natural processes. Cultural landscapes exhibit order ise/development. Elements in the landscape that are inconsistent with	6. Scenic of Recreational Value	
this natural order may detract from scenic quality. V	When a new project is introduced to the landscape, intactness and order lines, colors, and textures existing in the surrounding built or natural	Designation as a scenic or recreational resource is an indication that there is resource. The characteristics of the resource that contribute to its scenic or r visual impact on that resource.	
Does this view contain a natural order? 🗹 Y If yes, how does the natural order affect the vie		Would viewers consider this location a valued scenic or recreational resource	e? ☑ Yes ☐ No
within this view natural order of shoreline, water, and veg through the view with repetition of textures and colors.	etation in the lower half with pastel sky along the horizon helps draw the viewers gaze	How would the site be used for scenic or recreational enjoyment? This site is visible in the control of the con	is a WMA and has a NRHP resource on site, although not this particular view.
ATLANTIC SHORES offshore wind		1 of 6 ATLANTIC SHORES offshore wind	2

Visual Impact Assessment	Personnel: KV	
1	KOP: LEHT02 - Gre	at Bay V🖽
Existing Conditions	Date: 02-18-2021	
In the existing view rate the aesthetic quality/sensitivity of each resource on a sco	re of 1 to 9 (1 liability to 9 distinct)	
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), of be a whole number score.		
		Score
	Water Resources:	8
	Landform:	8
	Vegetation:	7
	Land Use:	8
	User Activity:	8
	Existing Conditions #1 Total:	39
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being h	nigh density)	
Special Condition A. Does this zone contain any scenic, of	cultural, or historic landmarks?	3
Special Condition B. Are there other aesthetic elements	ents that add to this resource?	3
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free	of litter/pollution)	
Special Condition C. Is this zone f	ree from pollution and/or litter?	3
Existing Conditions #	2 Total (Sum 2A through 2C)	9
Existing Conditions Grand Tota 3. Comments:	I (Sum #1 Total and #2 Total)	48
Movement attracting viewer attention: ripples on otherwise smooth water surface, grasses and	clouds blowing in a breeze.	
This view located on a peninsula looks into the serene open bay and toward the distant barrier small dark ripples indicating gentle movement. Distant landform frames the edge of view along in the center of the view adds an expansive feet to the water resources, near-foreground landforwaters edge. Marsh land vegetation adds another element of texture to this view and delines to preservation. However, the Rutger's Field stallon, not in view but located on the same peninsul proximity. User activity houcker preservation, research, fishing, and trappins shellfsh.	the horizon where water meets sky. A gap in the orm varies between a pebble shoreline and soft gr his as a natural meeting of water and land. Land u	distant landfo assy ridge at ise is primarily

Visual Impact Assessment	Personnel: KV	
Troud impact, recognitive	KOP: <u>LEHT02 - Gre</u>	at Bay V
Proposed Conditions	Date: 02-18-2021	
With the proposed project in place, rate the aesthetic quality/sensitivity of each resource.	urce on a score of 1 to 9 (1 liability to 9 di	istinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Sco
	Water Resources:	6
	Landform:	5
	Vegetation:	5
	Land Use:	6
	User Activity:	6
be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	8
	Total:	30
3. Comments:		
The WTG set in this image densely populate the horizon and connect two distant landforms creativisible whether individually or stacked and appearing as a larger cluster, and the substations peek resources and landform are greatly altered, and the WTG distract from the soft brabecous vegetal essened and become more average in nature. While still beautiful, this view becomes comparable differing in development pattern the sense in this setting, although not residential like the dredged the existing scene. Land use and user activity will likely still have emphasis on preservation and re bay will have a very different impact on viewers.	over the horizon as large squared masses. T ation. The untouched quality of this landscape e to other developed marsh and grassland area lagoon, becomes much more about human de	the view of value of value of view are as. Although evelopment
	search, but looking out over the open water at	na unaeve



The Rutger's field station is a NRHP site, and former life saving station. This is also a WMA.

g not compatible) and Use: r Activity: Total: e) and Use: er Activity:	KOP: <u>LEHT02</u> - Date: <u>02-18-202</u> a 0 (no impact), other 3 3 15	71		Proposed Conditions 8. Visibility Threshold Level - Check the the selected KOP. Visibility Rating Visibility Rating Visibility level 1. Visible only after extended, close viewing: otherwise invisible. Visibility level 2. Visible when scanning in the general direction of the study subject otherwise likely to be missed by casual observers. Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual	An object/phenomen who was unaware of can be seen only a can be seen of a can be can be a compared to the compared to the can be can be compared to the co
not compatible) and Use: or Activity: Total: e) and Use:	3 3 15			Visibility Threshold Level - Check the the selected KOP. Visibility Rating Visibility Rating Visibility Rating Visibility level 1. Visible only after extended, close viewing: otherwise invisible. Visibility level 2. Visible when scanning in the general direction of the study subject: otherwise likely to be missed by casual observers. Visibility level 3. Visible after a brief gance in the general direction of the study subject in the general direction of the study subject.	An object/phenomen who was unaware of can be seen only afte an object/phenomen brotzon or looking m sometimes be notice some active looking. An object/phenomen most casual observe
not compatible) and Use: er Activity: Total: e) and Use:	3 3 15	rwse,		The selected KOP. Visibility Rating Visibility level 1. Visible only after extended, close viewing: otherwise invisible. Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers. Visibility level 3. Visible after a brief glance in the general direction of the study subject in the general direction of the study subject.	An object/phenomer who was unaware of can be seen only aft An object/phenomer horizon or looking m sometimes be notice some active looking. An object/phenomer most casual observe
and Use: Total:	3 15			Visibility level 1. Visible only after extended, close viewing: otherwise invisible. Visibility level 2. Visible when scanning in the general direction of the study subject otherwise likely to be missed by casual observers. Visibility level 3. Visible after a brief glance in the general direction of the study subject in the general direction of the study subject.	who was unaware of can be seen only aft. An object/phenomer horizon or looking m sometimes be notice some active looking. An object/phenomer most casual observe
Total: and Use:	3 15			close viewing: otherwise invisible. Visibility level 2. Visible when scanning in the general direction of the study subject otherwise likely to be missed by casual observers. Visibility level 3. Visible after a brief glance in the general direction of the study subject	who was unaware or can be seen only aft An object/phenomer horizon or looking m sometimes be notice some active looking. An object/phenomer most casual observe
Total:	15			the general direction of the study subject; otherwise likely to be missed by casual observers. Visibility level 3. Visible after a brief glance in the general direction of the study subject	horizon or looking m sometimes be notice some active looking. An object/phenomer most casual observe
and Use:				otherwise likely to be missed by casual observers. Visibility level 3. Visible after a brief glance in the general direction of the study subject	sometimes be notice some active looking. An object/phenomen most casual observe
and Use:	3			in the general direction of the study subject	most casual observe
	3				
er Activity:				observers. Visibility level 4. Plainly visible, so could	An object/phenomen
,	3			not be missed by casual observers, but does not strongly attract visual attention or	landscape/seascape attention and insuffic
Total:	15			dominate the view because of its apparent size, for views in the general direction of the study subject.	
co-dominant, 3 d	lominant)				An object/phenomen
and Use:	2			attention of views in the general direction of the study subject. Attention may be drawn	so strongly that it is a tending to hold that a
er Activity:	2			by the strong contrast in form, line, color, or texture, luminance, or motion.	bright light sources s subject may contribu study subject interfer
Total:	12				
				because the study subject fills most of the	An object/phenomer visual field, and view a direct view of the o
				Strong contrasts in form, line, color, texture, luminance, or motion may contribute to	large apparent size i line, color, and textu
				view dominance.	may contribute subs subject detracts noti
riewer and their exp	perience, the moveme	ent of the blades will			
				9. Comments:	
				WTG on the horizon contrasts this more nat	tural setting and are I
	and Use: er Activity: Total:	or Activity: 2 Total: 12	and Use: 2 er Activity: 2	and Use: 2 ar Activity: 2 Total: 12	visibility level 5. Strongy affracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion. Visibility level 6. Dominates the view because the study subject fils most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance.

Visibility Rating	Description	
isibility level 1. Visible only after extended, lose viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visbillity. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
isibility level 2. Visible when scanning in ne general direction of the study subject; therwise likely to be missed by casual bservers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could somelines be noticed by casual observers; however, most people would not notice it without some active looking.	
isibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual bservers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	
fisibility level 4. Plainly visible, so could of be missed by casual observers, but loes not strongly attract visual attention or lominate the view because of its apparent ize, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
/isibility level 5. Strongly attracts the visual attention of views in the general direction of he study subject. Attention may be drawn by the strong contrast in form, line, color, or exture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so shongly that it is a major focus of visual attention, drawing viewer attention immediately and tending lo hold that attention. In addition is otrong contrasts in form, line, color, and texture, bright light sources such as lighting and reflections and moving objects associated with the study subject may contribute substantially of ordawing viewer attention. The visual promisence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	
/isibility level 6. Dominates the view occause the study subject fills most of the issual field for views in its general direction. Strong contrasts in form, line, color, texture, unacce, or motion may contribute to tiew dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by burning one's head more than 45° from a direct view of the object. The object/phenomenon is the major focus of visual altertion, and its large apparent size is a major factor in its view dominance, it addition to size, contrast is from, the cofur, and large the properties of the size of the size of the size of the cofur and because they'd legit access and menting objects associated with the size subject more contrast, and the size of th	✓
Comments:		
TG on the horizon contrasts this more nate	ural setting and are likely to become a major focus on the horizon.	

Personnel: KV

KOP: <u>LEHT02 - Great Bay</u> ₩ Date: <u>02-18-2021</u>

Visual Impact Assessment	
Date: February 19, 2021	Personnel: Steve Breitzka
Landscape Similarity Zone: <i>Undeveloped Bay</i>	Key Observation Point Name/Number: <u>LEHT02</u>
Key Observation Point (KOP) Familiarization	on
Landscape/seascape, viewer, and related factors to be considered	ed during evaluation of the KOP are outlined below.
	corporated into the scoring and comments on the VIA assessment form servations and should be completed quickly, taking no more than 5 minutes)
General elements of formal visual analysis to be consid	ered include:
their spatial arrangement. Basic landscape components	It of objects and voids in the landscape that can be categorized by include vegetation, landform, water, and sky. Some compositions, illed, or feature-oriented, are more vulnerable to modifications than
of a landscape/seascape, as well as a project. Form rel edge, outline, and surrounding space. Line refers to the or texture, usually evident as the edges of shapes or m the visual surface characteristics of an object. The exte	ajor compositional elements that define the perceived visual character ers to the shape of an object that appears unfiled, often defined by path the eye follows when perceiving athruct hanges in form, color, asses in the landscape/seascape. Texture, in this context, refers to nt to which form, line, color, and texture of a project are similar to or cape/seascape is a primary determinant of visual impact.
 Spatial Dominance: The degree to which an object or and thus dominates seascape composition from a spec 	landscape/seascape element occupies space in a landscape/seascape ific viewpoint.
	t in relation to its surroundings can define the compatibility of its scale e is likely to vary depending on the distance from which it is seen and
Principles of composition to be considered include	:
1. Focal Point	
physical characteristics. Focal points often contrast wit tend to draw a viewer's attention. Examples include pr	ures stand out and are particularly noliceable as a result of their h their surroundings in color, form, scale, or texture, and therefore ominent trees, mountains, or cultural features, such as a distinctive e sited so as to obscure or compete with important existing focal points
Does this view contain a focal point? Yes] No
If yes, briefly identify/describe:	
2. Order	
by displaying traditional or logical patterns of land use/ this natural order may detract from scenic quality. Whe	ler determined by natural processes. Cultural landscapes exhibit order development. Elements in the landscape that are inconsistent with in a new project is introduced to the landscape, intactness and order s, colors, and textures existing in the surrounding built or natural
Does this view contain a natural order? Yes If yes, how does the natural order affect the view?	

Visual Impact Assessment	Personnel: Steve Breitzka
Tioual Impact to see see in the	КОР: <i>LEHT02</i>
Principles of composition, continued: 3. Visual Clutter Murgorus producted built elements occurring within a view concrete	Date: <u>February 19, 2021</u> ate visual clutter (disrupting the natural order), which generally has an
adverse effect on scenic quality.	
Does this view contain elements that contribute to visual clutter	? ☐ Yes ☑ No
If yes, how does the visual clutter affect the view?	
4. Movement Motion of existing and proposed elements in a view can attract view	ver attention.
Does this view contain elements in motion that are likely to attr	act viewer attention?
(If the answer is yes, Note these elements in rating form comm.	nents)
Factors affecting visual impact:	
5. Duration of View	
	way or hiking a trail, while others are seen for a more prolonged period ant aesthetic resources, have the greatest potential for visual impact.
The duration of this view is: 🗹 Short Term/Fleeting 🔲 Lo	ng-term
The frequency of this view is: Repeated Occasional	I
6. Atmospheric Conditions	
	nditions can affect the visibility of an object or objects. These conditions with landscape/seascape elements and the design elements of form,
Conditions in this view can be described as: <a> Clear <a> P	artly Cloudy Overcast Hazy
Conditions that may increase/decrease visibility could be desc	cribed as: The sky still has a rosy glow at the horizon following sunrise.
7. Lighting Direction	
Front lighting refers to a situation where the light source is coming	is coming from overhead or the side of the observer to a feature or
The relevant lighting condition can be described as:	☐ frontlit ☐ side-lit
8. Scenic or Recreational Value	
Designation as a scenic or recreational resource is an indication the resource. The characteristics of the resource that contribute to its suisual impact on that resource.	nat there is broad public consensus on the value of that particular scenic or recreational value provide guidance in evaluating a project's
Would viewers consider this location a valued scenic or recreation	al resource? 🖸 Yes 🗆 No
How would the site be used for scenic or recreational enjoyment?	Getting to this location involves driving down Great Bay Boulevard and then hiking to the beach, taking people through the salt marsh.
ATLANTIC SHORES	2 of 6



ATLANTIC SHORES offshore wind

Visual Impact Assessment Personnel: Steve		Visual Impact Assessment	Personnel: Steve Breitzka	
KOP: <u>LEHT</u>			KOP: <u>LEHT02</u>	
Existing Conditions Date: Febru	ary 19, 2021	Proposed Conditions	Date: February 19, 2	021
1. In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1 liability to 9 distinct)	ı	With the proposed project in place, rate the aesthetic quality/sensitivity of each resour	ce on a score of 1 to 9 (1 liability to 9 dis	stinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Score
	Score	oliterwise, raining should be a whole humber score.	Water Resources:	2
Water Resource			Landform:	_
Landfor			Landom.	3
Landior	m: 5		Vegetation:	4
Vegetation	on: 6		Land Use:	6
Land Us	se: 7		User Activity:	4
User Activi	ty: 7		Cool Flourity.	-4
	, <u> </u>			
Existing Conditions #1 Tot	al: 33	Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct) Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can		
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high density)		be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	5
Special Condition A. Does this zone contain any scenic, cultural, or historic landmark	s? 3			
Special Condition B. Are there other aesthetic elements that add to this resourc	e? O		Total:	- 24
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/pollution)			rota.	24
Special Condition C. Is this zone free from pollution and/or litte	er? 3	3. Comments:		
Special Containor C. Is this zone free from politicion and/or little	3	The existing view does not have a singular focal point, just openness. The proposed turbines create	e a transparent wall of structures extending an	cross the view.
Existing Conditions #2 Total (Sum 2A through 2	C) 6	The adjacent Rutgers University Marine Field Station does give this location a research oriented lan Great Bay Boulevard. Even though the nearest turbine is almost 12 miles away, they still create a s	d use, however, this is also a kayak launch ar	
Existing Conditions Grand Total (Sum #1 Total and #2 Total 3. Comments:	al) 39	The turbine spacing on the far right and far left feather out and have less presence in the sky. The tappearance that increases their mass. The backlit nature of this view also makes the turbines appearance.	turbines in the center of the view have a stack	
Open view of the bay from a short stretch of beach. Calm, but textured, water with spilty grass vegetation along the shore. The lighti the grasses appearing black and the water full of dark ripples. The sky is white rosy pink on the left side of the view where the sun is transitioning to a rich blue on the right side of the view. Thin cloud cover high the sky, appearing like a thin hazy veil. White and blue horizon, scattered across the entire view. Land is visible in the distance on both sides of the view, apparently covered with vegetation given the dark color. There is minor topo dunes.	reflecting off the water, puffy clouds closer to the			
ATLANTIC SHORES offshore wind	3 of 6	ATLANTIC SHORES offshore wind		4 of 6
Visual Impact Assessment Personnel: Steve KOP: LEHT	02	Visual Impact Assessment	Personnel: <u>Steve Breitzka</u> KOP: <u>LEHT02</u>	
Date: Fehru	arv 19. 2021	I I	Date: February 19, 2	11121

Visual Impact Assessment	ersonnel: <u>Steve Breitzka</u> KOP: <u>LEHT02</u>	Visual Impact Assessi	ment Personnel: <u>Steve Breitzka</u> KOP: <u>LEHT02</u>
Proposed Conditions - Compatibility and Contrast Rating Note: If an element is not present in the view the score should rating should be a whole number score.	Date: February 19, 2021 be a 0 (no impact), otherwise,	Proposed Conditions 8. Visibility Threshold Level - Check th the selected KOP.	Date: <u>February 19, 2021</u> e box next to the description that most closely describes the visual prominence of the Project from
4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatib	e)	Visibility Rating	Description
Water Resources: 3 Land Use:	2	Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after tooking at it closely for an extended period.
Landform: 2 User Activity: Vegetation: 1 Total:	11	Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An objectlyhenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more cosely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.
Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) Water Resources: A Land Use:	2	Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.
Landform: 2 User Activity: Vegetation: 1 Total:	2 10	Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscapeseascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.
6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant	3 dominant)		
Water Resources: 3 Land Use: Landform: 3 User Activity: Vegetation: 2 Total:	3	Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and lending to hold that attention. In addition to strong contrasts in form, line, color, and texture bright light sources such as lighting and reflections all on whong objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements.
7. Comments: The proposed turbines alter this view from one of open water to one of industry. Although the landforms in the di over the dunes and connect one side of the view to the other. The proposed view has multiple focal points, or or to the hotizon and the string of oldarion baddes.	stance are not significant, the turbines tower	Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance.	An objectlyhenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by furning one's head more than 45° from a direct view of the object. The object/phenomenon is fem lample focus of visual attention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, color, and texture, tright light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seasscape elements.

ATLANTIC SHORES



There is nothing in this view to compete for attention with the proposed turbines; they become the dominant feature given their expansive stretch. The turbines are not high in the sky, though they are the tallest element along the horizon.

Date: 217/21 Personnel: _locelyn Gavitt Landscape Similarity Zone: _Ocean Residential Key Observation Point (KOP) Familiarization Landscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below. The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form (proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes) Principles of composition, continued: 3. Visual Clutter Numerous unrelated built elements occurring within a view can create visual clutter (disrupting the natural orde adverse effect on scenic quality. Does this view contain elements that contribute to visual clutter? Yes No If yes, how does the visual clutter affect the view? There are some built elements that permeate the green spin and the proposed Project on these factors initial observations and should be completed quickly, taking no more than 5 minutes)	
Landscape Similarity Zone: Ocean Residential Key Observation Point Name/Number: 1702 Cape May Point Key Observation Point (KOP) Familiarization Landscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below. The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form (proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes) Principles of composition, continued: 3. Visual Clutter Numerous unrelated built elements occurring within a view can create visual clutter (disrupting the natural orde adverse effect on scenic quality. Does this view contain elements that contribute to visual clutter? Yes No If yes, how does the visual clutter affect the view? There are some built elements that permeate the green spin of the visual clutter affect the view? There are some built elements that permeate the green spin of the visual clutter affect the view? There are some built elements that permeate the green spin of the visual clutter affect the view? There are some built elements that permeate the green spin of the visual clutter affect the view? There are some built elements that permeate the green spin of the visual clutter affect the view? There are some built elements that permeate the green spin of the visual clutter affect the view? There are some built elements that permeate the green spin of the visual clutter affect the view? There are some built elements that permeate the green spin of the visual clutter affect the view? There are some built elements that permeate the green spin of the visual clutter affect the view? There are some built elements that permeate the green spin of the visual clutter affect the view? There are some built elements that permeate the green spin of the visual clutter affect the view? There are some built elements that permeate the green spin of the visual clutter and visual clu	r), which generally has an
Key Observation Point (KOP) Familiarization Landscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below. The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form (proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes) A Movement	
Key Observation Point (KOP) Familiarization Landscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below. The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form (proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes) 4. Movement	
The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form (proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes) 4. Movement	ices.
proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes) 4. Movement	ices.
Motion of existing and proposed elements in a view can attract viewer attention.	
General elements of formal visual analysis to be considered include:	
• Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions, especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or ephemeral landscapes.	
Factors affecting visual impact:	
• Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by 5. Duration of View	
edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, Some views are seen as quick glimpses while driving along a roadway or hiking a trail, while others are seen l	
the visual surface characteristics of an object. The extent to which form line, color, and texture of a project are similar to or	otential for visual impact.
contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact. The duration of this view is: Short Term/Fleeting Long-term	
Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint. The frequency of this view is: Repeated Occasional	
• Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors. 6. Atmospheric Conditions Clouds, precipitation, haze, and other ambient weather-related conditions can affect the visibility of an object can greatly impact the visibility and contrast of project components with landscape/seascape elements and the line, color, texture, and scale.	
Principles of composition to be considered include: Conditions in this view can be described as: Clear Partly Cloudy Overcast Hazy	
1. Focal Point Conditions that may increase (decrease visibility could be described as: Increased moisture in the air could in	npact visibility.
Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, monimient tree	y upon the area being observer to a feature or
If yes, briefly identify/describe: The view is generally to the horizon line but is anchored by a building in the center of the view. The relevant lighting condition can be described as: backlit frontlit if side-lit	
2. Order	
Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment. 8. Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that there is broad public consensus on the v resource. The characteristics of the resource that contribute to its scenic or recreational value provide guidance visual impact on that resource.	alue of that particular e in evaluating a project's
Does this view contain a natural order? 🛮 Yes 🗋 No If yes, how does the natural order affect the view? Would viewers consider this location a valued scenic or recreational resource? 🖾 Yes 🗎 No	
There is a layering of natural salt marsh in the foreground, builtup land in the midground and open sky above the horizon line. How would the site be used for scenic or recreational enjoyment? This view is used mostly by locals and tourists	for the purpose of vistas.
ATLANTIC SHORES offshore wind 1 of 6 ATLANTIC SHORES offshore wind	2 0

offshore	e wind		1010	offshore wind		20
Visual Impact A	Assessment	Personnel: Jocelyn Gav	ritt	Visual Impact Assessment	Personnel: Jocelyn Gavit	tt
		KOP: LT02 Cape I	May Point	Trough Impact to continue	KOP: LT02 Cape Ma	ay Point
Existing Condition	one	Date: 2/17/21		Proposed Conditions	Date: 2/17/21	
•	the aesthetic quality/sensitivity of each resource on	a score of 1 to 9 (1 liability to 9 distinct)		With the proposed project in place, rate the aesthetic quality/sensitivity of each	resource on a score of 1 to 9 (1 liability to 9 d	(istinct)
Note: If an element is not pre be a whole number score.	esent in the view the score should be 4.5 of 9.0 (no impac	ct), otherwise, rating should		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact) otherwise, rating should be a whole number score.	· · · · · ·	Score
			Score		Water Resources:	7
		Water Resources:	7		Landform:	6
		Landform:	6		Vegetation:	6
		Vegetation:	6		Land Use:	5
		Land Use:	6		User Activity:	6
		User Activity:	6			
		Existing Conditions #1 Total:	31	2. Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct)		
2. Respond to each question	on below using a score of 0 to 3 (0 not present to 3 be	eing high density)		Note: Special Conditions score is taken directly from Existing Conditions #2 Total and co be adjusted up or down based upon the Proposed Conditions view.	an Special Conditions:	7
Special C	Condition A. Does this zone contain any scen	nic, cultural, or historic landmarks?	3			
Spe	ecial Condition B. Are there other aesthetic e	elements that add to this resource?	2		Total:	37
Respond to each question	below using a score of 0 to 3 (0 littered/polluted to 3	free of litter/pollution)				37
	Special Condition C. Is this zo	one free from pollution and/or litter?	2	3. Comments:		
	Existing Conditio	ns #2 Total (Sum 2A through 2C)	7	The proposed turbine field is barely noticeable above the built conditions at the horizon line can be seen upon close examination.	. Viewers will likely not notice the turbines, though po	ortions of them
3. Comments:	Existing Conditions Grand	Total (Sum #1 Total and #2 Total)	38			
generally terminates at the ho	athouse looking in the direction of the turbine field is over sal prizon line, which is occupied by a somewhat built up environ large open water component					



Visual Impact Assessment Personnel: Jocelyn Gavitt KOP: LT02 Cape May Point Date: 2/17/21 Proposed Conditions - Compatibility and Contrast Rating Note: If an element is not present in the view the score should be a 0 (no impact), otherwise, rating should be a whole number score. 4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible) Water Resources: Land Use: 1 Landform: 1 User Activity: Vegetation: Total: 5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) Water Resources: Land Use: Landform: User Activity: Vegetation: 1 Total: 6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominant) Water Resources: Land Use: Landform: User Activity: Vegetation: Total: 7. Comments: The turbines are barely noticeable in this view and therefore have very little impact.

ATLANTIC	SHORES
	offshore wind

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Visual Impact Assessment

Personnel: Jocelyn Gavitt

KOP: LT02 Cape May Point

Date: 2/17/21

Proposed Conditions

8. Visibility Threshold Level - Check the box next to the description that most closely describes the visual prominence of the Project from the selected KOP,

Visibility Rating	Description	
Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more loosely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	√
Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	
Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape-leaencape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an otherver's visual field.	
Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements as strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to strong contrasts in form, inc. octor, and laxure, bright light sources such as lighting and reflectionst and moving objects associated with the study subject may contribute substantially or drawing viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/sesscape elements.	
Visibility level 6, Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by furning one's head more than 45° from a direct view of the object. The object/phenomenon is the major fous of visual attention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, cotor, and texture, bright light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.	

9. Comments:

The proposed conditions are not very noticeable, and what can be seen would likely be attributed to the existing built environment in the view.

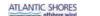
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Visual Impact Assessment			
Date: 17 February 2021	Personnel: KAC		
Landscape Similarity Zone: Ocean Residential	Key Observation Point Name/Number: <u>LT02 Cape May Pt SP</u>		
Key Observation Point (KOP) Familiarizat	ion		
Landscape/seascape, viewer, and related factors to be consider	red during evaluation of the KOP are outlined below.		
	acorporated into the scoring and comments on the VIA assessment form isservations and should be completed quickly, taking no more than 5 minutes)		
General elements of formal visual analysis to be consi	dered include:		
 Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions, especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or ephemeral landscapes. 			
 Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact. 			
 Spatial Dominance: The degree to which an object o and thus dominates seascape composition from a spe 	r landscape/seascape element occupies space in a landscape/seascape cific viewpoint.		
	ct in relation to its surroundings can define the compatibility of its scale ale is likely to vary depending on the distance from which it is seen and		
Principles of composition to be considered includ	e:		
1. Focal Point			

	and thus dominates seascape composition from a specific viewpoint.
•	Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors.
Prir	nciples of composition to be considered include:
1.	Focal Point
	Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape.
	Does this view contain a focal point? ☑ Yes □ No
	If yes, briefly identify/describe: Grassy marsh opening, water body, water tank, and horizon.
2	. Order
	Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.
	Does this view contain a natural order? Yes No If yes, how does the natural order affect the view?
	Scrub edge, march grass meadow, pond, scrub, man-made structures, utilities, background landform, and horizon; initially this is a sunken landscape with the ring of taller scrub forest vegetation emphasizing elevation difference. Background vegetation is strongly horizontal.

/isual Impact Assessment	Personnel: KAC
Programme and the second	KOP: LT02 Cape May Pt SP
Principles of composition, continued:	Date: 17 February 2021
Visual Clutter Numerous unrelated built elements occurring within a v adverse effect on scenic quality.	iew can create visual clutter (disrupting the natural order), which generally has an
Does this view contain elements that contribute to	visual clutter? 🗹 Yes 🗆 No
If yes, how does the visual clutter affect the view?	In the background view various utility elements such as cell towers, water supply and the city skyline break the horizon.
Motion of existing and proposed elements in a view can	
Does this view contain elements in motion that are	likely to attract viewer attention?
(If the answer is yes, Note these elements in rating	form comments)
Factors affecting visual impact:	
	along a roadway or hiking a trail, while others are seen for a more prolonged period rom significant aesthetic resources, have the greatest potential for visual impact.
The duration of this view is: Short Term/Fleet	ing Long-term
The frequency of this view is: Repeated	Occasional
	r-related conditions can affect the visibility of an object or objects. These conditions components with landscape/seascape elements and the design elements of form,
Conditions in this view can be described as:	Clear 🗹 Partly Cloudy 🗖 Overcast 🗹 Hazy
Conditions that may increase/decrease visibility or	build be described as: Less haze would increase the visibility to the Project.
Front lighting refers to a situation where the light source viewed. Side lighting refers to a viewing situation in whether the situation in which is the situation where the light source is the situation in which is the situation where the situation where the situation is the situation where th	ght is coming toward the observer from behind a feature or elements in a scene, e is coming from behind the observer and falling directly upon the area being ich sunlight is coming from overhead or the side of the observer to a feature or inficant effect on the visibility and contrast of landscape and project elements.
The relevant lighting condition can be described as:	□ backlit □ frontlit ☑ side-lit
8. Scenic or Recreational Value	
	indication that there is broad public consensus on the value of that particular fibute to its scenic or recreational value provide guidance in evaluating a project's
Would viewers consider this location a valued scenic of	r recreational resource? ☑ Yes ☐ No
How would the site be used for scenic or recreational e	enjoyment? Cape May State Park, Fishing Access and Beach, Cape May Lighthouse, Bayshore Heritage Scenic Byway.



٧	isual Impact Assessment Personnel: KAC		Visual Impa	ct Assessment	Personnel: KAC	
	КОР: <u>L ТО2 Са</u>	pe May Pt SP	110 4141 1111		KOP: LT02 Cape May	Pt SP
Е	xisting Conditions Date: 17 Febru	uary 2021	Proposed Condition	ons	Date: <u>17 February 20</u>	21
1.	In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1 liability to 9 distinct)		With the proposed project	t in place, rate the aesthetic quality/sensitivity of each re	esource on a score of 1 to 9 (1 liability to 9 dis	tinct)
	ole: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should a whole number score.		Note: If an element is not pre- otherwise, rating should be a	sent in the view the score should be 4.5 of 9.0 (no impact), whole number score.		Score
		Score			Water Resources:	6
	Water Resources:	6			Landform:	6
	Landform:	6			Vegetation:	7
	Vegetation:	7			Land Use:	7
	Land Use:	7			User Activity:	7
	User Activity:	7				
	Existing Conditions #1 Total:	33		conditions on a score of 0 to 9 (0 liability to 9 distinct) re is taken directly from Existing Conditions #2 Total and can		
2.	Respond to each question below using a score of 0 to 3 (0 not present to 3 being high density)			d upon the Proposed Conditions view.	Special Conditions:	7
	Special Condition A. Does this zone contain any scenic, cultural, or historic landmarks?	3				
	Special Condition B. Are there other aesthetic elements that add to this resource?	2			Total:	40
Re	espond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/pollution)					-10
	Special Condition C. Is this zone free from pollution and/or litter?	2	3. Comments:			
	Existing Conditions #2 Total (Sum 2A through 2C)	7	that punctuate the horizon light	ery difficult to differentiate the rotors on the horizon due to the bi tly and with very little visual definition. It is possible that the mov be focused and looking past the other interesting colors, texture:	ement of the rotor blades would catch the viewer's	
3.	Existing Conditions Grand Total (Sum #1 Total and #2 Total) Comments:	40		3	,	
C	ultural Historic: Cape May State Park, Fishing Access and Beach, Cape May Lighthouse, Bayshore Heritage Scenic Byway.					
А	esthetic: Elevated view from the historic lighthouse to the dynamic landscape that is a mix of scrub vegetation, marsh, pond, beach and	d ocean front.				
L	tter: Limited visitor litter.					
d b	ummary of View: The panoramic photo from this viewpoint has greater visual interest and diversity than the simulated view due to the I wersity, color and texture observed as the tidal marsh and ocean front beach meet each other. The simulated view focuses on the carp videred by the deep green evergreen and deciduous scrub forest, and a water body that reflects the blue of the sky above. The built en the mid-ground and background view, however, very lew elements break the horizon and the ones that do are light in color against the	net of marsh grass that is nvironment is apparent				
	ATLANTIC SHORES offshore wind	3 of 6	ATLANTIC SHO offshore			4 of 6

isual Impact Assessment	Personnel: KAC	Visual Impact Assessr	ment Personnel: KAC
·	KOP: <u>LT02 Cape May Pt SP</u>		KOP: <u>LT02 Cape M</u>
oposed Conditions - Compatibility and Contrast Ra	ting Date: 17 February 2021	Proposed Conditions	Date: <u>17 February .</u>
Note: If an element is not present in the view rating should be a whole number score.	w the score should be a 0 (no impact), otherwise,	Visibility Threshold Level - Check the the selected KOP.	e box next to the description that most closely describes the visual prominence of the Pr
ate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible t	o 3 not compatible)	Visibility Rating	Description
Water Resources: 1	Land Use: 1	Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.
Landform: 1 Vegetation: 1	User Activity: 1 5	Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without
te scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 se		observers. Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual	some active looking. An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.
Water Resources: 1	Land Use: 1	observers.	
Landform: 1 Vegetation: 1	User Activity: 1 Total: 5	Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seasonge elements, but with insufficient value contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.
te spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinal	e, 2 co-dominant, 3 dominant)	the study subject. Visibility level 5. Strongly attracts the visual	An object/phenomenon that is not large but contrasts with the surrounding landscape elements
Water Resources: 1 Landform: 1	Land Use: 1 User Activity: 1	attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	are objective the first in a triple dependent of the state of the stat
Vegetation: 1 Comments:	Total: 5	Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contacts in form, line, color, texture, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by turning one's head more than 45° from the strong of the object object object object of the object object object object of the object object objects object objects of object objects objects objects object objects
mpatibility: Turbines are not clearly visible at this distance, only the blade tips upon close of	observation.		заврем импама попосавлу потт чента от опист вапизсарет зедажаре стептента.
le: The turbines do not break the horizon line with enough height to be visible and be in c	ontrast to their surroundings.		
atial Dominance: The turbines are almost imperceivable, therefore, they do not have any sp	patial dominance in the view.		
		9. Comments:	
		N/A	



liqual Impact Accordment	Visual Impact Assessment	Personnel: KV
/isual Impact Assessment	Visual impuet /issessiment	KOP: LT02 - Cape May SP
oate: <u>02-18-2021</u> Personnel: <u>KV</u>	Principles of composition, continued:	Date: 02-18-2021
andscape Similarity Zone: Oceanfront Residential Key Observation Point Name/Number: LT02 - Cape May SP		<u> </u>
Key Observation Point (KOP) Familiarization	Numerous unrelated built elements occurring within a view can create visual c adverse effect on scenic quality.	
andscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.	Does this view contain elements that contribute to visual clutter?	es 🛮 No
the effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form proposed conditions), (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minute.	If yes, how does the visual clutter affect the view?	
	4. Movement Motion of existing and proposed elements in a view can attract viewer attention	
General elements of formal visual analysis to be considered include:		
 Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions, especially those that are distinctly focal, endosed, detailed, or feature-oriented, are more vulnerable to modifications than 	Does this view contain elements in motion that are likely to attract viewer. (If the answer is yes, Note these elements in rating form comments)	attention? ☐ Yes ☑ No
panoramic, canopied, or ephemeral landscapes.	Factors affecting visual impact:	
• Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character		
of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color,	 Duration of View Some views are seen as quick glimpses while driving along a roadway or hiki 	ng a trail while others are seen for a more prolonged period
or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to	of time. Longer duration views of a project, especially from significant aesthet	ic resources, have the greatest potential for visual impact.
the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.	The duration of this view is: ☑ Short Term/Fleeting ☐ Long-term	
 Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint. 	The frequency of this view is: ☐ Repeated ☑ Occasional	
Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale	6. Atmospheric Conditions	
within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors.	Clouds, precipitation, haze, and other ambient weather-related conditions car can greatly impact the visibility and contrast of project components with lands line, color, texture, and scale.	
Principles of composition to be considered include:	Conditions in this view can be described as: ☐ Clear ☑ Partly Cloud	y Overcast Hazy
1. Focal Point	Conditions that may increase/decrease visibility could be described as: of	overcast/hazy conditions may reduce visibility
Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their	7. Lighting Direction	
physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape.	Backlighting refers to a viewing situation in which sunlight is coming toward the Front lighting refers to a situation where the light source is coming from behind viewed. Side lighting refers to a viewing situation in which sunlight is coming to elements in a scene. Lighting direction can have a significant effect on the view.	d the observer and falling directly upon the area being from overhead or the side of the observer to a feature or
Does this view contain a focal point? 🗹 Yes 🔲 No		
If yes, briefly identify/describe: Waler towers on the horizon are distant focal points, but the contrast of flat grass among trees is a focal point	The relevant lighting condition can be described as: backlit front	lit 🗸 side-lit
2. Order		
Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with	8. Scenic or Recreational Value	
by uspaying adminiation updated patients or land usercoveragement. Elements in the altrast-pate into a retrieval with fish natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.	Designation as a scenic or recreational resource is an indication that there is resource. The characteristics of the resource that contribute to its scenic or re visual impact on that resource.	broad public consensus on the value of that particular creational value provide guidance in evaluating a project's
Does this view contain a natural order? Yes Mo If yes, how does the natural order affect the view?	Would viewers consider this location a valued scenic or recreational resource	? ✓ Yes □ No
the flat grassy area and the pond that mirrors the sky hold a viewers gaze within the center of the view.		buse is used for viewing and experiencing history. The State leaches provide recreational resources.
ATLANTIC SHORES 10	of 6 ATLANTIC SHORES	2

Visual Impact Assessment	Personnel: KV	
risual illipact Assessifient —		May SP
	Date: 02-18-2021	
Existing Conditions		
 In the existing view rate the aesthetic quality/sensitivity of each resource o Note: If an element is not present in the view the score should be 4.5 of 9.0 (no imple a whole number score. 	· · · · · · · · · · · · · · · · · · ·	
		Scor
	Water Resources:	7
	Landform:	6
	Vegetation:	7
	Land Use:	7
	User Activity:	7
	Existing Conditions #1 Total:	34
2. Respond to each question below using a score of 0 to 3 (0 not present to 3	being high density)	
Special Condition A. Does this zone contain any so	enic, cultural, or historic landmarks?	3
Special Condition B. Are there other aesthetic	elements that add to this resource?	3
Respond to each question below using a score of 0 to 3 (0 littered/polluted to	3 free of litter/pollution)	
Special Condition C. Is this	zone free from pollution and/or litter?	3
Existing Conditi	ons #2 Total (Sum 2A through 2C)	9
Existing Conditions Grand 3. Comments:	d Total (Sum #1 Total and #2 Total)	43
Movement attracting viewer attention: none.		
This view is from the top of the Cape May lighthouse looking back up the Cape may pe and the dispersed forest canopy throughout make for a unique scene. The elevated va at this location is flat in the foreground with low hills in the distant background. the varia again unique. Land use and user activity at this state park emphasizes tourism and his visual quality of the elevated view. However, the shoreline beach similarly just beyond greater variety in resources at this location.	ntage point and long distance view that it provides is unitation in ponding and texture of the wetland vegetation mitory. While not in the view frame the large parking area of	que. The land xed with fores detracts from t

Visual Impact Assessment	Personnel: KV	
Visual impact Assessment	KOP: LT02 - Cape May SP	
Proposed Conditions	Date: <u>02-18-2021</u>	
With the proposed project in place, rate the aesthetic quality/sensitivity of each resource	on a score of 1 to 9 (1 liability to 9	distinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Sco
	Water Resources:	7
	Landform:	6
	Vegetation:	7
	Land Use:	7
	User Activity:	7
 Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct) Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can be adjusted up or down based upon the Proposed Conditions view. 	Special Conditions:	9
	Total:	43
3. Comments:		
The WTG from this viewpoint are distant and primarily limited to blade tips. Viewers may be drawn to tunilikely to hold viewer attention with the variety of elements already existing in this view.	he movement of the distant blade WTG,	but they are



2 of 6

Visual Impact Assess	sment	Personnel: KV	Visual Impact Assessr	nent Personnel: KV
Visual impact / isses.	Smort	KOP: <u>LT02 - Cape May SP</u>	'	KOP: <u>LT02 - Cape May SP</u>
Proposed Conditions - Compat	ibility and Contrast Rating	Date: <u>02-18-2021</u>	Proposed Conditions	Date: 02-18-2021 box next to the description that most closely describes the visual prominence of the Project from
	If an element is not present in the view the score shou should be a whole number score.	d be a 0 (no impact), otherwise,	the selected KOP.	cox next to the description that most closely describes the visual profilmence of the Project from
4. Rate the compatibility of the proposed project	on a scale of 1 to 3 (1 compatible to 3 not compati	ble)	Visibility Rating	Description
Water Resources:	1 Land Use	1	Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.
Landform: Vegetation:	1 User Activity:	5	Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.
5. Rate scale contrast of the proposed project on			Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.
Water Resources: Landform:	1 Land Use: 1 User Activity: 1 Total:	1 5	Visibility level 4. Plainty visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.
Vegetation:	ct on a scale of 1 to 3 (1 subordinate, 2 co-dominate		size, for views in the general direction of the study subject.	_
Water Resources:	1 Land Use:	1	Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and lending to hold that attention. In addition to strong contrasts in form, line, color, and texture, bright light sources such as lightling and reflections and moving objects associated with the study
Landform:	1 User Activity:	1	texture, luminance, or motion.	ungit inglit sources and as lignting and reliecturis and invinity objects associated with in the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements.
Vegetation: 7. Comments:	1 Total:	5	Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by turning one's head more than 45° from a direct view of the object. The object/phenomenon is the major focus of visual attention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in from, time, cotor, and texture, tright light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject defracts noticeably from views of other landscape/seascape elements.
				v will likely be apparent primarily because of the motion of blade tips rising and sinking in the distant background. ers will be able to discerner the WTG from other elements on the distant horizon.
ATLANTIC SHORES		5 of 6	ATLANTIC SHORES offshore wind	PRINT DOCUMENT TO PDF 6

Visual Impact Assessment				
Date: February 19, 2021 Personnel: Steve Breitzka	_			
Landscape Similarity Zone: <u>Ocean Residential</u> Key Observation Point Name/Number: <u>LT02</u>	_			
Key Observation Point (KOP) Familiarization				
Landscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.				
The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form (proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minute.	s)			
General elements of formal visual analysis to be considered include:				
 Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky, Some compositions, especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or ephemeral landscapes. 				
• Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or lexture, usually evident as the edges of shapes or masses in the landscape/seascape. Fexture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.				
 Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint. 				
 Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors. 				
Principles of composition to be considered include:				
1. Focal Point				
Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape.				
Does this view contain a focal point? ☐ Yes ☑ No				
If yes, briefly identify/describe:				
2. Order				
Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land useldevelopment. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.				
Does this view contain a natural order? ☑ Yes ☐ No If yes, how does the natural order affect the view?				
The natural landscape has an oder of ocean to beach to inland salt marsh to dense wooded area. The man-made order depicts development at the beach including parking, beach access, beach front residential.				
ATLANTIC SHORES 110	f6			

Visual Impact Assessment	Personnel: Steve Breitzka
	KOP:_ <i>LT02</i>
Principles of composition, continued:	Date: <i>February 19, 2021</i>
 Visual Clutter Numerous unrelated built elements occurring within a view can crea adverse effect on scenic quality. 	ate visual clutter (disrupting the natural order), which generally has an
Does this view contain elements that contribute to visual clutter	r? ☐ Yes ☑ No
If yes, how does the visual clutter affect the view?	
4. Movement	
Motion of existing and proposed elements in a view can attract view	ver attention.
Does this view contain elements in motion that are likely to attr	act viewer attention?
(If the answer is yes, Note these elements in rating form comm.	nents)
Factors affecting visual impact:	
5. Duration of View	
	Iway or hiking a trail, while others are seen for a more prolonged period ant aesthetic resources, have the greatest potential for visual impact.
The duration of this view is: 🗹 Short Term/Fleeting 🗆 Lor	ng-term
The frequency of this view is: Repeated Occasiona	ı
6. Atmospheric Conditions	
	nditions can affect the visibility of an object or objects. These conditions with landscape/seascape elements and the design elements of form,
Conditions in this view can be described as: Clear P	eartly Cloudy Overcast Hazy
Conditions that may increase/decrease visibility could be described.	cribed as: There is a light haze in the distance. It covers a portion of the landscape and blurs the horizon.
7. Lighting Direction	landscape and bid's the horizon.
Front lighting refers to a situation where the light source is coming	is coming from overhead or the side of the observer to a feature or
The relevant lighting condition can be described as:	☐ frontlit ☑ side-lit
8. Scenic or Recreational Value	
Designation as a scenic or recreational resource is an indication the resource. The characteristics of the resource that contribute to its suisual impact on that resource.	nat there is broad public consensus on the value of that particular scenic or recreational value provide guidance in evaluating a project's
Would viewers consider this location a valued scenic or recreation	al resource? 🗹 Yes 🔲 No
How would the site be used for scenic or recreational enjoyment?	This is an elevated view from the lighthouse that provides a unique perspective of a lush landscape.
ATLANTIC SHORES	2 of 6

Visual Impact Assessment	Personnel: Steve Breitzl	ka	Visual Impact Assessment	Personnel: Steve Breitzka	3
	KOP: <u>LT02</u>		•	KOP: <u>LT02</u>	
Existing Conditions	Date: February 19,	, 2021	Proposed Conditions	Date: February 19, 2	2021
1. In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to	9 (1 liability to 9 distinct)		With the proposed project in place, rate the aesthetic quality/sensitivity of each reso	ource on a score of 1 to 9 (1 liability to 9 dis	stinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, re be a whole number score.	nting should		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Score
		Score		Water Resources:	9
	Water Resources:	9		Landform:	6
	Landform:	6		Vegetation:	9
	Vegetation:	9		Land Use:	8
	Land Use:	8		User Activity:	8
	User Activity:	8			
Existing	Conditions #1 Total:	40	2. Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct) Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can		
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high densi	ity)		be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	8
Special Condition A. Does this zone contain any scenic, cultural,	or historic landmarks?	3			
Special Condition B. Are there other aesthetic elements that	t add to this resource?	3		Total:	48
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/po	Illution)				
Special Condition C. Is this zone free from	pollution and/or litter?	2	3. Comments:		
Existing Conditions #2 Total	(Sum 2A through 2C)	8	Following the viewing parameters, the proposed turbines are hardly noticeable at the horizon. Or	nly blades are visible and quantity cannot be dete	lermined.
Existing Conditions Grand Total (Sum # 3. Comments:	#1 Total and #2 Total)	48			
The colors and textures in this view resemble a painting. The elevated perspective lends a softness to the different materials including grasses, dense shrub thickets, and mature deciduous and coniferous trees. The connection to the ocean (outside this view to the right). Development is visible in the distance although exact land use is not clear. Roof lines extend above the viowers in the distance; they appear to include a municipal valent tower and thin communication towers on the sky is predominantly a pale blue, lighter at the horizon with a few patchy white clouds.	There is open water to brighten the m regetation and there are a few narrow	narsh and make			
ATLANTIC SHORES offshore wind		3 of 6	ATLANTIC SHORES offshore wind		4 of (
Visual Impact Assessment	Personnel: Steve Breitzi	ka	Visual Impact Assessment	Personnel: <u>Steve Breitzka</u> KOP: <i>LT02</i>	3

Visual Impact Assessment Per	rsonnel: <u>Steve Breitzka</u> KOP: <i>LT02</i>	Visual Impact Assessr	nent Personnel: <u>Steve Breitzka</u> KOP: <i>LT02</i>
Proposed Conditions - Compatibility and Contrast Rating Note: If an element is not present in the view the score should be rating should be a whole number score.	Date: February 19, 2021 e a 0 (no Impact), otherwise,	Proposed Conditions 8. Visibility Threshold Level - Check the	Date: <u>February 19, 2021</u> e box next to the description that most closely describes the visual prominence of the Project from
4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible		Visibility Rating	Description
Water Resources: 1 Land Use:	1	Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it dosely for an extended period.
Landform: 1 User Activity: Vegetation: 1 Total:	5	Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.
5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) Water Resources: 1 Land Use:	1	Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.
Landform: 1 User Activity: Vegetation: 1 Total:	1 5	Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly after disval attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.
6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 Water Resources: Land Use: Landform: 1 User Activity: Vegetation: 1 Total:	1 1 5	Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An objectlyhenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual alterintion, drawing viewer attention immediately and tending lo hold that alterinch. In addition to strong contrasts in form, line, color, and texture, bright light sources such as lighting and reflections! and moving objects associated with the study subject may contribute substantially of advanig viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscapo/seascape elements.
7. Comments: Following the viewing parameters, the proposed turbines are hardly noticeable at the horizon. Only blades are visit		Visibility level 6. Dominates the view because the study subject fils most of the visual field for views in fis general direction. Strong contrasts in form, line, color, ledure, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by furning one's head more than 45° from a direct view of the object. The object/phenomenon is the major focus of visual attention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, color, and returne, triplit [light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.

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Visual Impact Assessment	Visual Impact Assessment Personnel: Jocelyn Gavitt
•	KOP: MCo2 Lucy the Margata
Date: 2/17/21 Personnel: Jocelyn Gavitt	Principles of composition, continued: Date: 2/17/21
andscape Similarity Zone: Oceanfront Residential Key Observation Point Name/Number: MCo2 Lucy the Margata	3. Visual Clutter
Key Observation Point (KOP) Familiarization	Numerous unrelated built elements occurring within a view can create visual clutter (disrupting the natural order), which generally has an adverse effect on scenic quality.
andscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.	Does this view contain elements that contribute to visual clutter? Yes No
The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes)	If yes, how does the visual clutter affect the view? There is considerable clutter in the foreground that competes with the open water view.
	Movement Motion of existing and proposed elements in a view can attract viewer attention.
General elements of formal visual analysis to be considered include:	
 Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions, especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than 	Does this view contain elements in motion that are likely to attract viewer attention? Yes No (If the answer is yes, Note these elements in rating form comments)
panoramic, canopied, or ephemeral landscapes.	Factors affecting visual impact:
 Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project semilar to or 	5. Duration of View Some views are seen as quick glimpses while driving along a roadway or hiking a trail, while others are seen for a more prolonged period of time. Longer duration views of a project, especially from significant aesthetic resources, have the greatest potential for visual impact.
contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.	The duration of this view is: ☐ Short Term/Fleeting ☑ Long-term
 Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint. 	The frequency of this view is: ☐ Repeated ☑ Occasional
 Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors. 	6. Atmospheric Conditions Clouds, precipitation, haze, and other ambient weather-related conditions can affect the visibility of an object or objects. These conditions can greatly impact the visibility and contrast of project components with landscape/seascape elements and the design elements of form, line, color, texture, and seade.
Principles of composition to be considered include:	Conditions in this view can be described as: ☑ Clear ☐ Partly Cloudy ☐ Overcast ☐ Hazy
1. Focal Point	Conditions that may increase/decrease visibility could be described as: Increased moisture in the air could impact visibility.
Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in old, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape. Does this view contain a focal point? Yes No	7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming toward the observer from behind a feature or elements in a scene. Front lighting refers to a situation where the light source is coming from behind the observer and falling directly upon the area being viewed. Side lighting refers to a viewing situation in which sunlight is coming from overhead or the side of the observer to a feature or elements in a scene. Lighting direction can have a significant effect on the visibility and contrast of landscape and project elements.
If yes, briefly identify/describe:	The relevant lighting condition can be described as: backlitt of frontiit is side-lit
2. Order	The special synthy contained control of the special sp
Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.	8. Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that there is broad public consensus on the value of that particular resource. The characteristics of the resource that contribute to its scenic or recreational value provide guidance in evaluating a project's visual impact on that resource.
Does this view contain a natural order? ☑ Yes ☐ No If yes, how does the natural order affect the view?	Would viewers consider this location a valued scenic or recreational resource? 🗹 Yes 🗆 No
The built environment is cluttered but contained as one body of shoreline balanced by open water and open sky.	How would the site be used for scenic or recreational enjoyment? This view is seen from a historic landmark
ATLANTIC SHORES 1 of 6	ATLANTIC SHORES 2 of 6

The built environment is cluttered but contained as one body of shoreline balanced by open with	ater and open sky.		How would the site be used for scenic or recreational enjoyment? This view	is seen from a historic landmark	
ATLANTIC SHORES offshore wind		1 of 6	ATLANTIC SHORES offshore wind		2 of 6
Visual Impact Assessment	Personnel: Jocelyn Gav	ritt	Visual Impact Assessment	Personnel: Jocelyn Gavitt	
	KOP: MCo2 Lucy t	the Margati		KOP: MCo2 Lucy the	Marga
Existing Conditions	Date: 2/17/21		Proposed Conditions	Date: 2/17/21	
In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to	9 (1 liability to 9 distinct)		With the proposed project in place, rate the aesthetic quality/sensitivity of each	resource on a score of 1 to 9 (1 liability to 9 dis	tinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, re be a whole number score.	ating should		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact, otherwise, rating should be a whole number score.	,	Score
		Score		Water Resources:	2
	Water Resources:	7		Landform:	3
	Landform:	4		Vegetation:	2
	Vegetation:	3		Land Use:	4
	Land Use:	5		User Activity:	4
	User Activity:	5			
Existing	g Conditions #1 Total:	24	2. Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct	•	
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high densi	ity)		Note: Special Conditions score is taken directly from Existing Conditions #2 Total and of be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	3
Special Condition A. Does this zone contain any scenic, cultural,	or historic landmarks?	2			
Special Condition B. Are there other aesthetic elements that	at add to this resource?	1		Total:	18
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/po	ollution)				
Special Condition C. Is this zone free from	n pollution and/or litter?	1	3. Comments:		
Existing Conditions #2 Total	(Sum 2A through 2C)	4	The proposed turbine field occupies the one clean open area of the existing view, filling it w quite visible. The turbines penetrate the horizontal skyline and become the new focus of the		
Existing Conditions Grand Total (Sum a 3. Comments:	#1 Total and #2 Total)	28			
This view out to open water from a historic landmark has significant clutter in the foreground, attracting on elements that frame the bottom and left of the view. The open water is a pristine balance to the clutter in lack any solid focal point. The viewers gaze eventually rests on the open water at the horizon line.					



Personnel: Jocelyn Gavitt Visual Impact Assessment KOP: MCo2 Lucy the Margati Date: 2/17/21 **Proposed Conditions - Compatibility and Contrast Rating** Note: If an element is not present in the view the score should be a 0 (no impact), otherwise, rating should be a whole number score. 4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible) Land Use: Water Resources: 3 2 Landform: 2 User Activity: 2 Vegetation: Total: 10 5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) Water Resources: 3 Land Use: 2 Landform: 2 User Activity: 2 Vegetation: 1 Total: 10 6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominant) Water Resources: Land Use: 2 Landform: User Activity: 2 Vegetation: Total: 2 11 7. Comments:

ATLANTIC SHORES

The turbines occupy the horizon and become a focus in this view

1 of 6

Visual Impact Assessment

Personnel: Jocelyn Gavitt

KOP: MCo2 Lucy the Margain

Date: 2/17/21

Proposed Conditions

8. Visibility Threshold Level - Check the box next to the description that most closely describes the visual prominence of the Project from the selected KOP

Visibility Rating	Description	
Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more loosely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	
Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape-leaencape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements as strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to strong contrasts in form, line, color, and feuture, bright light sources such as lighting and reflections! and moving objects associated with the study subject may contribute substantially ordaving viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	✓
Visibility level 6. Dominates the view because the study subject IIIs most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual flidid, and views of it cannot be avoided except by turning one's head more than 54 not a direct view of the object. The object/phenomenon is the majer focus of visual attention, and it is large apparent size is a major factor in 1s view dominance. In addition to size, contrasts in form, line, cotor, and texture, bright light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject defracts noticeably from views of other landscape/seascape elements.	

9. Comments:

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The turbines are highly visible and the only mitigating factor in their visibility is the presence of visual clutter in the foreground that competes for the viewers



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Visual Impact Assessment	
Date: 17 February 2021	Personnel: KAC
Landscape Similarity Zone: <u>Oceanfront Residential</u>	Key Observation Point Name/Number: MC02 Lucy ME NHL
Key Observation Point (KOP) Familiarization	n
Landscape/seascape, viewer, and related factors to be considered	d during evaluation of the KOP are outlined below.
	orporated into the scoring and comments on the VIA assessment form rvations and should be completed quickly, taking no more than 5 minutes)
Comment of the second of the s	and brokens

- General elements of formal visual analysis to be considered include:
- Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or ephemeral landscapes.
- · Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character From, time, color, and returner insert enter the color major compositional elements that ceiting the ceiting of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.
- Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint.
- Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors.

Principles of composition to be considered include:

1. Focal Point

Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape.

Does this view contain a focal point? $\ensuremath{\mbox{\ensuremath{\square}}}$ Yes $\ensuremath{\mbox{\ensuremath{\square}}}$ No

If yes, briefly identify/describe: Tall building, odd architectural angles, utilities, ocean and horizon line

2. Order

Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land used/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.

Does this view contain a natural order? Yes No If yes, how does the natural order affect the view'

Strip architecture, restored beach grass, beach, jetty, ocean, and horizon; interrupted landscape due to the boxing in of the view with incongruous architectural styles and heights.

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isual Impact Assessment	Personnel: KAC
iodai impaoti iosossiiiont	KOP: MC02 Lucy ME NHL
Principles of composition, continued:	Date:_17 February 2021
Visual Clutter Numerous unrelated built elements occurring within a view adverse effect on scenic quality.	can create visual clutter (disrupting the natural order), which generally has an
Does this view contain elements that contribute to visual	al clutter? 🗹 Yes 🗆 No
	te incongruous architectural styles/materials and high-rise as well as utility poles errupt the view to the ocean.
4. Movement	
Motion of existing and proposed elements in a view can attra	act viewer attention.
Does this view contain elements in motion that are likel	y to attract viewer attention? Yes No
(If the answer is yes, Note these elements in rating form	n comments)
Factors affecting visual impact:	
5. Duration of View	
	g a roadway or hiking a trail, while others are seen for a more prolonged period significant aesthetic resources, have the greatest potential for visual impact.
The duration of this view is: Short Term/Fleeting	☐ Long-term
The frequency of this view is: Repeated Oc	casional
	ated conditions can affect the visibility of an object or objects. These conditions ponents with landscape/seascape elements and the design elements of form,
Conditions in this view can be described as: Clea	r 🗖 Partly Cloudy 🗖 Overcast 🗹 Hazy
Conditions that may increase/decrease visibility could	be described as: A less hazy horizon line would show more Project detail.
7. Lighting Direction	
Front lighting refers to a situation where the light source is viewed. Side lighting refers to a viewing situation in which s	s coming toward the observer from behind a feature or elements in a scene. coming from behind the observer and falling directly upon the area being unulight is coming from overhead or the side of the observer to a feature or nt effect on the visibility and contrast of landscape and project elements.
The relevant lighting condition can be described as:	backlit ☑ frontlit ☐ side-lit
	cation that there is broad public consensus on the value of that particular e to its scenic or recreational value provide guidance in evaluating a project's
Would viewers consider this location a valued scenic or rec	creational resource? 🛮 Yes 🗖 No
How would the site be used for scenic or recreational enjoy	ment? Atlantic Coast Public Beach, Lucy the Margate Elephant, Margate City Public Beach.

Existing Conditions 1 the existing conditions 1 this has proposed or pack in some the same of a some of 1 to 9 (1 biddly b 9 distinct) 1 this has proposed or proposed or existing should be a whole named store 1 this has proposed or proposed or existing should be a whole named store 1 this has proposed or existing conditions or 1 to 1 to 1 this has proposed or existing should be a whole named store 1 the existing conditions 2 the existing conditions #1 Total: 2 the existing conditions #1 Total: 2 the existing conditions #1 Total: 2 the existing conditions for 2 total (sum 2 A through 2C) 3 the existing conditions #2 Total (sum 2 A through 2C) 2 the existing conditions #2 Total (sum 2 A through 2C) 3 the existing conditions #2 Total (sum 4 1 Total and #2 Total) 3 the existing conditions #2 Total (sum 4 1 Total and #2 Total) 3 the existing conditions #2 Total (sum 4 1 Total and #2 Total) 3 the existing conditions #3 Total (sum 4 1 Total and #2 Total) 3 the existing conditions #4 Total and #4						
Existing Conditions The variety year in the authority where the basechatic qualifylerorality of each resource on a score of 1 to 10 billion by a death of the score should be 4 of 40 pin inpact], otherwise, only should be a whell number score. Veter Resources: Land Use: Land Use: Land Use: Land Use: Land Use: Land Use: Special Condition A process in the value should be a single should be a whell number score. Value of Resources: Land Use: Land Use: Special Condition A process of the 3 th year process to 1 to 10 th limits play friends in the single should be a whell number score. Value of Resources: Land Use: Land Use: Special Condition A process of the 3 th year process to 1 to 10 th limits play friends in the single should be a whell number score. Value of Resources: Land Use: Land Use: Special Condition A process of the 3 th year process to 1 to 10 th limits play friends in the single play friends in the containing play fri	Visual Impact Assessment	Personnel: KAC		Visual Impact Assessment	Personnel: KAC	
Existing Conditions #2 Total: 29 Respond to each question below using a score of to 3 to set present to 1 be of the property of the set proposed protect place, rate the acentrical place and the case of the 5 of 8 to 9 to		KOP: MC02 Lucy	ME NHL	Trough impustrious	KOP: MC02 Lucy N	NE NHL
1. Note the seather quality-enable of seath resource on a score of 1 to 9 (1 leability to 9 distinct) Note: I an element of an approach in the score should be 4.5 of 9 (the impact), otherwise, caling should Water Resources: Canadism: 6	Existing Conditions	Date: 17 February	<i>2021</i>	Proposed Conditions	Date: 17 February	2021
Score Water Resources: Water Resources: 6	9	1 to 9 (1 liability to 9 distinct)			ch resource on a score of 1 to 9 (1 liability to 9 of	distinct)
Water Resources: 6 Landform: 6 Vegetation: 6 Land Use: 6 Land Use: 6 Land Use: 6 User Activity: 6 Existing Conditions #1 Total: 30 Special Condition A Does this Zone contain any scenic, cultural, or historic landmarks? 2 Special Condition B. Arr ether control Packing Conditions as 2 Total: 3 Special Condition B. Arr ether control Packing Conditions as 2 Total: 3 Special Condition B. Arr ether control Packing Conditions B. are there in the several packing as soon of 0 to 3 (in the present to 3 being high divorably) Special Condition B. Arr ether control Packing Conditions B. are there in the several packing as soon of 0 to 3 (in the present conditions are as several packing as soon of 0 to 3 (in the present conditions are as several packing as soon of 0 to 3 (in the present conditions are as several packing as soon of 0 to 3 (in the present conditions are as several packing as soon of 0 to 3 (in the present conditions are as several packing as the present conditions are associated as several packing as the present conditions are associated as several packing as the present conditions are associated as several packing as the present conditions are associated as several packing as the present conditions are associated as several packing as the present conditions are associated as an associated as several packing as the present conditions are associated as a several packing as the present conditions are associated as a several packing as the present conditions are associated as a several packing as the present conditions are associat	Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise a whole number score.	ise, rating should			t).	Score
Landform: 6 Vegetation: 6 Land Use: 6 User Activity: 6 User Activity: 6 Existing Conditions # Total: 30 Special Condition A. Does this zone contain any scenic, cultural, or historic landmarks? 2 Special Condition B. Are there other aesthetic elements that add to this resource? 0 Respond to each question below using a score of 0 to 3 (this reproduction of the containing the service area of 0 to 5 (this and can be explained from the hosting to produce the containing to the service area of 0 to 1 (this production of the containing to the service area of 0 to 1 (this production of the service area of 0 to 1 (this production of the service area of 0 to 1 (this production of the service area of 0 to 1 (this production of the service area of 0 to 1 (this production of the service area of 0 to 1 (this production of the service area of 0 to 1 (this production of the service area of 0 to 1 (this production of the service area of 0 to 1 (this production of the service area of 0 to 1 (this production of the service area of 0 to 1 (this production of the service area of 0 to 1 (this production of the service area of 0 to 1 (this production of the service area of 0 to 1 (this production of the service area of 0 to 1 (this production of the service area of 0 to 1 (this production of the service area of 0 to 1 (this production of the service area of 0 to 1 (this production of 0 to 1 (this			Score		Water Resources:	5
Vegetation: 6 Land Use: 6 User Activity: 6 Existing Conditions #1 Total: 30 Special Condition A. Does this zone contain any scene; cultural, or historic landmarks? Special Condition A. Does this zone contain any scene; cultural, or historic landmarks? Special Condition A. Does this zone contain any scene; cultural, or historic landmarks? Special Condition B. Are there other aesthetic elements that add to this resource? Special Condition B. Are there other aesthetic elements that add to this resource? Respond to each question below using a score of 0 to 3 (ii) timeredipolitude to 3 free of timeripolitude) Special Condition S. Zond (Sum 2A through 2C) Existing Conditions #2 Total (Sum 2A through 2C) Existing Conditions #2 Total (Sum 2A through 2C) Seed Condition S. Zond Total (Sum 41 Total and #2 Total) Comments: Line adding view from the located upon the responsed and separated from the beach and coom does the bear and co		Water Resources:	6		Landform:	5
Land Use: User Activity: 6		Landform:	6		Vegetation:	6
Existing Conditions #1 Total: Special Condition A. Does this zone contain any scenic, cultural, or historic landmarks? Special Condition B. Are there other aesthetic elements that add to this resource? Respond to each question below using a score of 0 to 3 (0 not present to 3 being high density) Special Condition B. Are there other aesthetic elements that add to this resource? Respond to each question below using a score of 0 to 3 (0 mile redpoluted to 3 free of litter/polution) Special Condition B. Are there other aesthetic elements that add to this resource? Respond to each question below using a score of 0 to 3 (0 mile redpoluted to 3 free of litter/polution) Special Conditions #2 Total (Sum 2A through 2C) Existing Conditions #2 Total (Sum 2A through 2C) 3 Comments: The existing view from the lookout top of Luxy the Elephant is not as aesthetically important as the cultural importance and ritual of visiting Luxy by locals and visitors. The existing view from the lookout top of Luxy the Elephant is not as aesthetically important as the cultural importance and ritual of visiting Luxy by locals and visitors. The existing view from the lookout top of Luxy the Elephant is not as aesthetically important as the cultural importance and ritual of visiting Luxy by locals and visitors. The existing view from the lookout top of Luxy the Elephant is not as aesthetically important as the cultural importance and ritual of visiting Luxy by locals and visitors. The existing view from the lookout top of Luxy the Elephant is not as aesthetically important as the cultural importance and ritual of visiting Luxy by locals and visitors. The existing view from the lookout top of Luxy the Elephant is not as aesthetically important as the cultural importance and ritual of visiting Luxy by locals and visitors. The existing view is drawal or many local top of Luxy the Elephant is not as aesthetically important as the cultural importance and ritual of visiting Luxy by locals and visitors. The existing view is from the lookout		Vegetation:	6		Land Use:	5
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Special Condition C. Is this zone free from pollution and/or litter? Existing Conditions #2 Total (Sum 2A through 2C) Existing Conditions Grand Total (Sum #1 Total and #2 Total) 3. Comments: Cultural Historic: Attentic Coast Public Beach, Lucy the Margate Elephant (Margate Elephant (Margate Elephant) is minimized by the dated architectural structures that surround it, which also prohibit the visual comerction and promended to the beach and ocean the log interrupting utility lines and poles, and elevated views into the service areas of adjacent structures. 3. Comments: 4. Cultural plation: 5. Cultural plation: 6. Cultural plation: 6. Cultural plation: 8. Cultural plation: 8. Cultural plation: 8. Cultural plation: 9. Cultural plation: 1. Cultural pla	Special Condition B. Are there other aesthetic elements	that add to this resource?	0		Total:	29
Existing Conditions #2 Total (Sum 2A through 2C) Existing Conditions Grand Total (Sum #1 Total and #2 Total) Existing Conditions Grand Total (Sum #1 Total and #2 Total) Existing Conditions Grand Total (Sum #1 Total and #2 Total) Comments: Cultural Historic: Allantic Coast Public Beach, Lucy the Margate Elephant is minimized by the dated architectural structures that surround it, which also prohibit the visual connection and promenade to the beach and ocean. Littler: Tourist and beach littler: Summary of View: The steet view to Lucy the Elephant Isself is likely a more sensitive visual resource than the view from the observation platform on top. The view, outside of being from a historic monument, does not have a superior aesthetic due to the beach and ocean being interrupted by random architectural forms, materials and styles, interrupting utility lines and poles, and elevated views into the service areas of adjacent structures. ATLANTIC SHORES	Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litt	er/pollution)				
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Cultural Historic: Allantic Coast Hubric C		um #1 Total and #2 Total)	33	farm is visually prominent but in keeping with the bright white color of the vertical building horizontal banding on the high rise building. The proposed turbines at 14.43-miles to the	cladding that occupies much of the view, pool railings nearest turbine are massive in scale and number in t	and the thin he view, and the
visual connection and promenade to the beach and ocean. Littler: Tourist and beach litter. Summary of View: The street view to Lucy the Elephant itself is likely a more sensitive visual resource than the view from the observation platform on top. The view, outside of being from a historic monument, does not have a superior aesthetic due to the beach and ocean being interrupted by random architectural forms, materials and styles, interrupting utility lines and poles, and elevated views into the service areas of adjacent structures. ATLANTIC SHORES	Cultural Historic: Atlantic Coast Public Beach, Lucy the Margate Elephant, Margate City Public Bea	ach.				ed within a
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view, outside of being from a historic monument, does not have a superior aesthelic due to the beach and ocean being interrupted by random architectural forms, materials and styles, interrupting utility lines and poles, and elevated views into the service areas of adjacent structures. ATLANTIC SHORES 3 of 6 ATLANTIC SHORES	Litter: Tourist and beach litter.					
	iew, outside of being from a historic monument, does not have a superior aesthetic due to the beac	ch and ocean being interrupted by random				
			3 of 6			4 o

Proposed Conditions - Compatibility and Contrast Rating Note: If an element is not present in the view the score should be a 0 (no impact), otherwise, rating should be a whole number score. 1. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible) Water Resources: 1.5	Visual Impact Assess	sment	Pe	rsonnel: KAC
Proposed Conditions - Compatibility and Contrast Rating Note: If an element is not present in the view the score should be a 0 (no impact), otherwise, rating should be a whole number score. 4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible) Water Resources: 1.5	Trouble impuoritions			KOP: MC02 Lucy ME NHL
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Water Resources: Landform: 1.5 User Activity: 1.5 Vegetation: 1 Total: 6.5 5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) Water Resources: Landform: 1.5 User Activity: 1.5 User Activity: 1.5 Vegetation: 1 Total: 6.5 6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominant) Water Resources: 1.5 Land Use: 1 User Activity: 1.5 User Activity: 1.5 Land Use: 1 User Activity: 1.5 Land Use: 1 Landform: 1.5 User Activity: 1.5 Land Use: 1 Landform: 1.5 User Activity: 1.5 Land Use: 1 Landform: 1.5 User Activity: 1.5 Vegetation: 1 Total: 6.5				e a 0 (no impact), otherwise,
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Compatibility: The introduction of the Project into the view further industrializes and reduces the already compromised visual integrity of the view from Lu				
	7. Comments:			
		iew further industrializes and	d reduces the already compromis	sed visual integrity of the view from Lu

Visibility Rating	Description	
Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	
Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	V
Visibility level 5. Strongly altracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to strong contrasts in form, line, cotor, and texture, bright light sources such as lighting and reflectional and moving objects associated with the study subject may contribute substantially of warding viewer attention. The visual promisence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	
Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by furning one's head more than 45° from a direct view of the object. The object/phenomenon is the major focus of visual attention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, color, and terrute, triplit [ligh sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.	



Visual Impact Assessment	Visual Impact Assessment Personnel: KV
•	KOP: MCO2 - Lucy Margate
	Principles of composition, continued: Date: <u>02-18-2021</u>
.andscape Similarity Zone: Oceanfront Residential Key Observation Point Name/Number: MC02 - Lucy Margate	3. Visual Clutter
Key Observation Point (KOP) Familiarization	Numerous unrelated built elements occurring within a view can create visual clutter (disrupting the natural order), which generally has an adverse effect on scenic quality.
andscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.	Does this view contain elements that contribute to visual clutter? Yes No
The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes)	If yes, how does the visual clutter affect the view? This view is confusing to the eye, and does not inform the viewer what they should be taking from the view. are we looking at the ocean, the buildings, the utilities? 4. Movement
General elements of formal visual analysis to be considered include:	Motion of existing and proposed elements in a view can attract viewer attention.
 Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions, especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or enhemeral landscapes. 	Does this view contain elements in motion that are likely to attract viewer attention? ✓ Yes ✓ No (If the answer is yes, Note these elements in rating form comments)
Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character of a landscape/leascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or lexture, usually evident as the edges of shapes or masses in the landscaper/seascape. Texture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or contrast with these same elements in the existing landscaper/seascape is a primary determinant of visual impact.	Factors affecting visual impact: 5. Duration of View Some views are seen as quick glimpses while driving along a roadway or hiking a trail, while others are seen for a more prolonged period of time. Longer duration views of a project, especially from significant aesthetic resources, have the greatest potential for visual impact. The duration of this view is: Short Term/Fleeting Long-term
 Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint. 	The frequency of this view is: ☐ Repealed ☑ Occasional
 Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors. 	6. Atmospheric Conditions Clouds, precipitation, haze, and other ambient weather-related conditions can affect the visibility of an object or objects. These conditions can greatly impact the visibility and contrast of project components with landscape/seascape elements and the design elements of form, ine, color, texture, and scale.
Principles of composition to be considered include:	Conditions in this view can be described as: ☑ Clear ☐ Partly Cloudy ☐ Overcast ☐ Hazy
1. Focal Point	Conditions that may increase/decrease visibility could be described as: Overcast/Hazy would decrease visibility.
Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape. Does this view contain a focal point? Yes No	7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming toward the observer from behind a feature or elements in a scene. Front lighting refers to a situation where the light source is coming from behind the observer and falling directly upon the area being viewed. Side lighting refers to a viewing situation in which sunlight is coming from overhead or the side of the observer to a feature or elements in a scene. Lighting direction can have a significant effect on the visibility and contrast of landscape and project elements.
If yes, briefly identify/describe: the open horizon framed by development draws viewer attention, but does not hold it as a focal point	The relevant lighting condition can be described as: backlit of frontlit is side-lit
2. Order Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment. Does this view contain a natural order?	8. Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that there is broad public consensus on the value of that particular resource. The characteristics of the resource that contribute to its scenic or recreational value provide guidance in evaluating a project's visual impact on that resource.
If yes, how does the natural order affect the view?	Would viewers consider this location a valued scenic or recreational resource? 🗹 Yes 🗌 No
	How would the site be used for scenic or recreational enjoyment? Tourism to Lucy the Elephant, beach goers
ATLANTIC SHORES 1 of 6	ATLANTIC SHORES offshore wind

			1				
Visual Impact Assessment	Personnel: KV		v	isual Impact Assessme	ent	Personnel: KV	
	KOP: <u>MC02 - Lucy</u>	Margate_		·		KOP: <u>MC02 - Lucy</u>	Margate
Existing Conditions	Date: <u>02-18-2021</u>		P	roposed Conditions		Date: <u>02-18-2021</u>	
1. In the existing view rate the aesthetic quality/sensitivity of each resource on a scor	re of 1 to 9 (1 liability to 9 distinct)		1.1	With the proposed project in place, rate the aesthetic q	uality/sensitivity of each resource	e on a score of 1 to 9 (1 liability to 9 d	istinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), oth be a whole number score.	herwise, rating should			nte: If an element is not present in the view the score should herwise, rating should be a whole number score.	d be 4.5 of 9.0 (no impact),		Score
		Score		iciwise, raing should be a whole humber score.		Water Resources:	3
	Water Resources:	5				Landform:	-
	Landform:					Landioiiii.	5
	Landioini.	5				Vegetation:	4
	Vegetation:	4				Land Use:	4
	Land Use:	6				User Activity:	5
	User Activity:	6					
E	Existing Conditions #1 Total:	26	1 1	Collectively rate special conditions on a score of 0 to			
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being hi	igh density)			nte: Special Conditions score is taken directly from Existing adjusted up or down based upon the Proposed Conditions		Special Conditions:	7
Special Condition A. Does this zone contain any scenic, c	cultural, or historic landmarks?	3					
Special Condition B. Are there other aesthetic elements	ents that add to this resource?	1				Total:	28
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of	of litter/pollution)						20
Special Condition C. Is this zone fr	ree from pollution and/or litter?	3	3.	Comments:			
Existing Conditions #2	2 Total (Sum 2A through 2C)	7	ex	hile the existing water resource previously assisted in balancir ttend to the visual clutter of the existing foreground structures oftened by their light color against the light sky. Stacking of turb	and utilities. The amount of turbines at	this distance allows them to be highly visi	ible even when
Existing Conditions Grand Total 3. Comments:	(Sum #1 Total and #2 Total)	33	ac	sorganized layout because locations where turbines align is in centuated by the tall structures surrounding. Similarly, the min evelopment. However, the WTG located in this area may have	nimal vegetation already experienced a	a diminishment from the height of surround	ling
Movement altracting viewer attention: beach goers, residents of the building using the pool or be	alconies, ocean waves.		de	etermine that locations at a further distance from the WTG arra rious travelers, and the turbines could potentially serve to do t	y is more desirable. Yet, Lucy the Mar		
This view represents an urban beachfront environment setback from the direct shoreline. A bear setback of this viewpoint also allows the shoreline to be framed by a high-rise dwelling to the left frame. The devated nature of this view allows existing utility poles to be in the line-of-sight. Alth clutter detracts from the visible water resources and shoreline landform. Vegetation in this area sand fencing and patchy in spots. The land use and user activity in this area is residential and to is a popular location with space for users to simultaneously be within the crowd, but have ample	It and a variety of smaller structures along the b ough this view is from a National Historic Landr is that of low growing dune grasses that are co ourist in nature. As evidenced by the number of	ottom of the mark the visual nstrained within					

Personnel: KV **Visual Impact Assessment** KOP: MC02 - Lucy Margate Date: 02-18-2021 Proposed Conditions - Compatibility and Contrast Rating Note: If an element is not present in the view the score should be a 0 (no impact), otherwise, rating should be a whole number score. $4. \ Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible)\\$ Water Resources: Land Use: 2 3 User Activity: Landform: 3 3 Vegetation: 2 Total: 13 5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) Water Resources: 3 Land Use: 2 Landform: 3 User Activity: 3 Vegetation: 2 Total: 13 6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominant) Water Resources: Land Use: 2 Landform: User Activity: 3 Vegetation: Total: 11 7. Comments: The WTG in size and amount are not compatible with the expansive horizontal nature of the water resources, or long linear landform primarily due to the intense scale contrast of the large WTG on the horizon. However, the minimal vegetation and already highly developed land use may be somewhat compatible. User activity within this developed location is centered around the ability for ocean views which maybe disrupted by the WTGs in place.

ATLANTIC SHORES

Visibility Rating	Description	
Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	
Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	Е
Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to strong contrasts in form, line, color, and teature, bright light sources such as lighting and reflections and moving objects associated with the study subject may contribute substraintly for drawing viewer attention. The visual prominence of the study subject interferes noticeably with views of neartry landscape/seascape elements.	V
Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance.	An utject/phonemon with stoop visual contracts that is, so large that it occupies most of the visual field, and view of it acomed the anoided oscope by Juming one's head from a direct view of the object. The object/phonemon is the major focus of visual attention, and its large apparent size is a major factor in its view dominance. In addition to size, contracts in form, line, color, and texture, tripal light sources and moving objects associated with the study subject may contribute sustainally for damy deveer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.	Е

ATLANTIC SHORES

ey Observation Point (KOP) Familiarization Indexape/seascape, viewer, and related factors to be considered during the effect of the proposed Project on these factors should be incorporated	into the scoring and comments on the VIA assessment form and should be completed quickly, taking no more than 5 minutes, de: s and voids in the landscape that can be categorized by getation, landform, water, and sky. Some compositions, ture-oriented, are more vulnerable to modifications than sistional elements that define the perceived visual character shape of an object that appears unified, often defined by yet follows when perceiving abrupt changes in form, color, e landscapelseascape. Texture, in this context, refers to form, line, color, and texture of a project are similar to or cape is a primary determinant of visual impact. seascape element occupies space in a landscape/seascape int.
ne effect of the proposed Project on these factors should be incorporated roposed conditions). (This form is intended to record initial observations General elements of formal visual analysis to be considered incli Landscape/Seascape Composition: The arrangement of object their spatial arrangement. Basic landscape components include vespecially those that are distinctly focal, enclosed, detailed, or fee panoramic, canopied, or ephemeral landscapes. Form, Line, Color, and Texture: These are the four major comp of a landscape/seascape, as well as a project. Form refers to the edge, outline, and surrounding space. Line refers to the path their or texture, usually evident as the edges of shapes or masses in it the visual surface characteristics of an object. The extent to which contrast with these same elements in the existing landscape/sease. Spatial Dominance: The degree to which an object or landscape and thus dominates seascape composition from a specific viewpe. Project Scale: The apparent size of a proposed project in relation within the existing seascape. Perception of project scale is likely to ther contextual factors. Principles of composition to be considered include: 1. Focal Point Certain natural or man-made landscape/seascape features stan physical characteristics. Focal points often contrast with their sur tend to draw a viewer's attention. Examples include prominent treating the contrast with their sur tend to draw a viewer's attention. Examples include prominent treating the contrast with their sur tend to draw a viewer's attention. Examples include prominent treating the contrast with their sur tend to draw a viewer's attention. Examples include prominent treations.	into the scoring and comments on the VIA assessment form and should be completed quickly, taking no more than 5 minutes de: s and voids in the landscape that can be categorized by getation, landform, water, and sky. Some compositions, ture-oriented, are more vulnerable to modifications than sistional elements that define the perceived visual character shape of an object that appears unified, often defined by yet follows when perceiving abrupt changes in form, color, e landscapelseascape. Texture, in this context, refers to form, line, color, and texture of a project are similar to or cape is a primary determinant of visual impact. seascape element occupies space in a landscape/seascape int.
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Landscape/Seascape Composition: The arrangement of object their spatial arrangement. Basic landscape components include especially those that are distinctly focal, enclosed, detailed, or fee panoramic, canopied, or ephemeral landscapes. Form, Line, Color, and Texture: These are the four major comp of a landscape/seascape, as well as a project. Form refers to the edge, outline, and surrounding space. Line refers to the path their or texture, usually evident as the edges of shapes or masses in it the visual surface characteristics of an object. The extent to which contrast with these same elements in the existing landscape/sease. Spatial Dominance: The degree to which an object or landscape and thus dominates seascape composition from a specific viewpr. Project Scale: The apparent size of a proposed project in relation within the existing seascape. Perception of project scale is likely to other contextual factors. Principles of composition to be considered include: 1. Focal Point Certain natural or man-made landscape/seascape features stam physical characteristics. Focal points often contrast with their sur tend to draw a viewer's attention. Examples include prominent tre lighthouse. If possible, a proposed project should not be siled so	s and voids in the landscape that can be categorized by getation, landform, water, and sky. Some compositions, ture-oriented, are more vulnerable to modifications than sistional elements that define the perceived visual character shape of an object that appears unified, often defined by ye follows when perceiving abrupt changes in form, color, e landscape/seascape. Texture, in this context, refers to form, line, color, and texture of a project are similar to or cape is a primary determinant of visual impact. 'seascape element occupies space in a landscape/seascape int. to its surroundings can define the compatibility of its scale
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Focal Point Certain natural or man-made landscape/seascape features stand physical characteristics. Focal points often contrast with their surtend to draw a viewer's attention. Examples include prominent the lighthouse. If possible, a proposed project should not be sited so	, , , , , , , , , , , , , , , , , , ,
Certain natural or man-made landscape/seascape features stand physical characleristics. Focal points often contrast with their sur- tend to draw a viewer's attention. Examples include prominent in lighthouse. If possible, a proposed project should not be sited so	
	oundings in color, form, scale, or texture, and therefore ees, mountains, or cultural features, such as a distinctive
Does this view contain a focal point? ☐ Yes ☑ No	
If yes, briefly identify/describe:	
2. Order	
Natural landscapes/seascapes have an underlying order determ by displaying traditional or logical patients of land use/developm this natural order may detract from scenic quality. When a new p are maintained through the repetition of the forms, lines, colors, environment.	ent. Elements in the landscape that are inconsistent with roject is introduced to the landscape, intactness and order
Does this view contain a natural order? ✓ Yes ☐ No If yes, how does the natural order affect the view?	
Beachfront development including low-rise and high-rise residential struc	ures, beach access, commercialized high-traffic area.

Visual Impact Assessment	Personnel: Steve Breitzka
process and a second	KOP: <u>MC02</u>
Principles of composition, continued: 3. Visual Clutter	Date: <u>February 19, 2021</u>
	riew can create visual clutter (disrupting the natural order), which generally has an
Does this view contain elements that contribute to	visual clutter? 🗹 Yes 🗆 No
If yes, how does the visual clutter affect the view?	The clutter spreads across the entire foreground consisting of overhead utilities, paved surface parking lots, a mix of architectural styles, and balconies on a high-rise.
 Movement Motion of existing and proposed elements in a view car 	n attract viewer attention.
Does this view contain elements in motion that are	likely to attract viewer attention? 🗹 Yes 🗖 No
(If the answer is yes, Note these elements in rating	g form comments)
Factors affecting visual impact:	
5. Duration of View	
	along a roadway or hiking a trail, while others are seen for a more prolonged period from significant aesthetic resources, have the greatest potential for visual impact.
The duration of this view is: Short Term/Fleet	ting 🗹 Long-term
The frequency of this view is: <a> Repeated	Occasional
	r-related conditions can affect the visibility of an object or objects. These conditions components with landscape/seascape elements and the design elements of form, Clear Partiv Cloudy Overcast Hazy
	ould be described as: The sky is almost completely clear with only a few wispy
	clouds on the right side.
Front lighting refers to a situation where the light source viewed. Side lighting refers to a viewing situation in where the light is the situation of the situation in which is the situation in the situation in the situation is the situation which is the situation which is the situation where the situation where the situation where the situation where the situation is the situation where the situation is the situation where t	ight is coming toward the observer from behind a feature or elements in a scene. E is coming from behind the observer and falling directly upon the area being inch shulfglit is coming from overhead or the side of the observer to a feature or inficant effect on the visibility and contrast of landscape and project elements.
The relevant lighting condition can be described as:	□ backlit □ frontlit ☑ side-lit
resource. The characteristics of the resource that cont visual impact on that resource.	indication that there is broad public consensus on the value of that particular ribute to its scenic or recreational value provide guidance in evaluating a project's
Would viewers consider this location a valued scenic of	or recreational resource? 🗹 Yes 🗀 No
How would the site be used for scenic or recreational	enjoyment? Recreational given the history of Lucy the Margate Elephant.
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Visual Impact Assessment	Personnel: Steve Breitzk	ka	Visual Impact Assessment	Personnel: Steve Breitzk	<u>a</u>
	KOP: MC02		'	KOP: <i>MC02</i>	
Existing Conditions	Date: February 19,	2021	Proposed Conditions	Date: February 19, 2	2021
1. In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9	(1 liability to 9 distinct)		With the proposed project in place, rate the aesthetic quality/sensitivity of each res	source on a score of 1 to 9 (1 liability to 9 d	listinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, ratil be a whole number score.	ng should		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Score
		Score		Water Resources:	5
	Water Resources:	7		Landform:	5
	Landform:	6		Vegetation:	4
	Vegetation:	5		Land Use:	6
	Land Use:	8		User Activity:	6
	User Activity:	7			
Existing (Conditions #1 Total:	33	Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct) Note: Special Conditions score is taken directly from Existing Conditions ₹2 Total and can		
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high density	1)		be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	2
Special Condition A. Does this zone contain any scenic, cultural, or	r historic landmarks?	2			
Special Condition B. Are there other aesthetic elements that a	add to this resource?	0		Total:	28
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/polluted)	ution)				
Special Condition C. Is this zone free from $\ensuremath{\text{\mu}}$	pollution and/or litter?	0	3. Comments:		
Existing Conditions #2 Total (S	Sum 2A through 2C)	2	The view is further cluttered by the proposed turbines that span the entire width of the view. Th light blue sky as a backforp. The overlapping blades create a fence-like barrier along the horiz of the field that gives them such a strong presence.		
Existing Conditions Grand Total (Sum #1 3. Comments:	I Total and #2 Total)	35	There is a similarity between the layout of the grasses and he distant turbines, linking these two	components.	
This is a busy beach front area, both in terms of people and in terms of visual distraction. The foreground co- lines and poles, nonting HVAC equipment, and balconies on a residential high-rise building. The middle of the reclamation grass plantings and a scattering of people and colorful umbrellas across the sandy beach. The bright white waves cresting at the sand, a hazy horizon line, and white to mid-blue gently faded nearly cloud	he view is further disrupted by incon distant view includes deep blue oce	nsistent beach			
ATLANTIC SHORES offshore wind		3 of 6	ATLANTIC SHORES offshore wind		4 of 6
Visual Impact Assessment	Personnel: <u>Steve Breitzk</u> KOP: <u>MC02</u>	ka	Visual Impact Assessment	Personnel: <u>Steve Breitzk</u> KOP: <u>MC02</u>	a

Visual Impact Assessme	nt	Pe	rsonnel: <u>Steve Breitzka</u> KOP: <u>MC02</u>
Proposed Conditions - Compatibility	and Contr	ast Rating	Date: February 19, 2021
Note: If an elemerating should be		in the view the score should b score.	e a 0 (no impact), otherwise,
4. Rate the compatibility of the proposed project on a scal	e of 1 to 3 (1 co	mpatible to 3 not compatible)
Water Resources:	3	Land Use:	1
Landform:	2	User Activity:	2
Vegetation:	1	Total:	9
5. Rate scale contrast of the proposed project on a scale of	of 1 to 3 (1 minin	nal to 3 severe)	
Water Resources:	3	Land Use:	1
Landform:	2	User Activity:	2
Vegetation:	1	Total:	9
6. Rate spatial dominance of the proposed project on a sc	ale of 1 to 3 (1 s	ubordinate, 2 co-dominant, 3	3 dominant)
Water Resources:	3	Land Use:	2
Landform:	2	User Activity:	2
Vegetation:	3	Total:	12
7. Comments:			

roposed Conditions Visibility Threshold Level - Check the e selected KOP	e box next to the description that most closely describes the visual prominence of the Pro	ject from
Visibility Rating	Description	
risibility level 1. Visible only after extended, lose viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
isibility level 2. Visible when scanning in ne general direction of the study subject; therwise likely to be missed by casual bservers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be delected without extended viewing, it could somelimes be noticed by casual observers; however, most people would not notice it without some active looking.	
isibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual bservers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	
isibility level 4. Plainly visible, so could of be missed by casual observers, but oes not strongly attract visual attention or ominate the view because of its apparent ize, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	√
risibility level 5. Strongly attracts the visual ttention of views in the general direction of e study subject. Attention may be drawn y the strong contrast in form, line, color, or exture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition is strong contrasts in form, line, color, and texture, bright light sources such as lighting and reflections! and moving objects associated with the study subject may contribute substantially of orwainly elever attention. The visual promisence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	
risibility level 6. Dominates the view ecause the study subject fills most of the sual field for views in its general direction. Itong contrasts in form, line, color, texture, minance, or motion may contribute to ew dominance.	An abject/phromeron with strony visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by luming one's head more than 45° from large apparent size is a major factor in its view dominance. In addition to size contrasts in form, line, color, and teature, tripid light sources and moving objects associated with the study subject may contribute sustainally to drawing viewer afteriors. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.	



/isual Impact Assessment	Visual Impact Assessment Personnel: Jocelyn Gavitt
Date: 2/25/21 Personnel: Jocelyn Gavitt	KOP: OC01 Corson's Inlet 35
andscape Similarity Zone: Undeveloped beach Key Observation Point Name/Number: OC01 Corson's Inlet &	Principles of composition, continued: Date: 2/25/21
key Observation Point (KOP) Familiarization	 Susual Cutter Numerous unrelated built elements occurring within a view can create visual clutter (disrupting the natural order), which generally has an adverse effect on scenic quality.
andscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.	Does this view contain elements that contribute to visual clutter? Yes No
The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form	If yes, how does the visual clutter affect the view?
proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes)	4. Movement
General elements of formal visual analysis to be considered include:	Motion of existing and proposed elements in a view can attract viewer attention.
Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions,	Does this view contain elements in motion that are likely to attract viewer attention?
especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or ephemeral landscapes.	(If the answer is yes, Note these elements in rating form comments)
Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character	Factors affecting visual impact:
of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by	5. Duration of View
edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or lexture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project rear similar to or	Some views are seen as quick glimpses while driving along a roadway or hiking a trail, while others are seen for a more prolonged period of time, Longer duration views of a project, especially from significant aesthetic resources, have the greatest potential for visual impact.
contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.	The duration of this view is: ☐ Short Term/Fleeting ☑ Long-term
 Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint. 	The frequency of this view is: ☐ Repeated ☑ Occasional
 Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors. 	6. Atmospheric Conditions Clouds, precipitation, haze, and other ambient weather-related conditions can affect the visibility of an object or objects. These conditions can greatly impact the visibility and contrast of project components with landscape/seascape elements and the design elements of form, line, color, keture, and scale.
Principles of composition to be considered include:	Conditions in this view can be described as: ☑ Clear ☐ Partly Cloudy ☐ Overcast ☐ Hazy
1. Focal Point	Conditions that may increase/decrease visibility could be described as: More moisture in the atmosphere would likely decrease visibility
Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape. Does this view contain a focal point? Yes No	7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming toward the observer from behind a feature or elements in a scene. Front lighting refers to a situation where the light source is coming from behind the observer and falling directly upon the area being viewed. Side lighting refers to a viewing situation in which sunlight is coming from overhead or the side of the observer to a feature or elements in a scene. Lighting direction can have a significant effect on the visibility and contrast of landscape and project elements.
If yes, briefly identify/describe:	The relevant lighting condition can be described as: backlit frontiit side-lit
2. Order	The rejevant lighting condition can be described as: 🔲 backlit 🔟 frontitt 🔲 stoe-lit
Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.	8. Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that there is broad public consensus on the value of that particular resource. The characteristics of the resource that contribute to its scenic or recreational value provide guidance in evaluating a project's visual impact on that resource.
Does this view contain a natural order? 🗹 Yes 🗌 No If yes, how does the natural order affect the view?	Would viewers consider this location a valued scenic or recreational resource? ☑ Yes ☐ No
There is a layering of beach, ocean and open sky.	How would the site be used for scenic or recreational enjoyment? This is a pristine beach front location.
ATLANTIC SHORES 1 of 6	ATLANTIC SHORES 2

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ATLANTIC SHORES offshore wind		1 of 6	ATLANTIC SHORES offshore wind		2 of 6
Visual Impact Assessment Pers	rsonnel: Jocelyn Gavit	itt	Vigual Impact Assessment	Personnel: Jocelyn Gav	vitt
visual impact Assessment	KOP: OC01 Corson	ı's Inlet 🖺	Visual Impact Assessment	KOP: OC01 Corso	
Existing Conditions	Date: 2/25/21		Proposed Conditions	Date: <u>2/25/21</u>	
1. In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1 liability	lity to 9 distinct)		1. With the proposed project in place, rate the aesthetic quality/sensitivity of ea	ach resource on a score of 1 to 9 (1 liability to 9	distinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating shoul be a whole number score.	uld		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impa otherwise, rating should be a whole number score.	rct),	Score
		Score		Water Resources:	6
Wa	ater Resources:	9		Landform:	5
	Landform:	6		Vegetation:	4.5
	Vegetation:	4.5		Land Use:	6
	Land Use:	7		User Activity:	5
	User Activity:	7			
Existing Condit	itions #1 Total:	33.5	2. Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distin	•	
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high density)			Note: Special Conditions score is taken directly from Existing Conditions #2 Total and be adjusted up or down based upon the Proposed Conditions view.	d can Special Conditions:	5
Special Condition A. Does this zone contain any scenic, cultural, or history	oric landmarks?	2			
Special Condition B. Are there other aesthetic elements that add to	this resource?	2		Total:	31.5
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/pollution)					
Special Condition C. Is this zone free from pollution	ion and/or litter?	2	3. Comments:		
Existing Conditions #2 Total (Sum 2)	2A through 2C)	6	The proposed furbines are visible along the horizon line and become a distant focus for bright white, as the whitecaps and creating waves are as well. This white nature is likely minimizing their impact relative to other lighting conditions. These furbines do become a	making them blend better with the background sky an	nd could be
Existing Conditions Grand Total (Sum #1 Total 3. Comments:	al and #2 Total)	39.5			
This open view from a substantial undeveloped beach area is pristine in nature. There is no real focus except for the the open ocean dominating.	ne horizon. The view is extre	emely simple, with			



Personnel: Jocelyn Gavitt **Visual Impact Assessment** KOP: OC01 Corson's Inlet 21 Date: 2/25/21 **Proposed Conditions - Compatibility and Contrast Rating** Note: If an element is not present in the view the score should be a 0 (no impact), otherwise, rating should be a whole number score. 4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible) Water Resources: Land Use: 2 3 User Activity: Landform: 2 3 Vegetation: Total: 10 5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) $\,$ Water Resources: Land Use: Landform: User Activity: 2 Vegetation: 0 Total: 6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominant) Water Resources: Land Use: 2 Landform: User Activity: 2 Vegetation: Total: 0 7. Comments: These turbines can be seen across the horizon and will be noticed by viewers as the only built features in this view

ATLANTIC SHORES

Visual Impact Assessment

Personnel: Jocelyn Gavitt

KOP: OC01 Corson's Inlet 3

Date: 2/25/21

8. Visibility Threshold Level - Check the box next to the description that most closely describes the visual prominence of the Project from the selected KOP.

Visibility Rating	Description	
Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more loosely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	√
Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so shongly that it is a major focus of visual attention, drawing viewer attention inmediately and tending to hold that attention. In addition to strong contrasts in form, line, color, and texture, bright light sources such as lighting and reflections? and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	
Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by turning one's head more than 45" from a direct view of the object. The object-phenomenon is the major focus of visual attention, and its large apparent size is a major factor in its view dominance. In addition to size, contrast in form, line, cotor, and tearture, bright light sources and moving objects associated with the study subject may contribute substantially to drawing viewer stantion. The visual promisence of the study subject deleacts noticeably from views of other landscape/seascape elements.	

9. Comments:

Numerous turbines are visible in this view but at a great enough distance so as not to be overwhelming

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6 of 6

Visual Impact Assessment	
Date: 24 February 2021	Personnel: KAC
Landscape Similarity Zone: <u>Undeveloped Beach</u>	Key Observation Point Name/Number: OC01 Corson's SP
Key Observation Point (KOP) Familiarizat	ion
Landscape/seascape, viewer, and related factors to be consider	red during evaluation of the KOP are outlined below.
	acorporated into the scoring and comments on the VIA assessment form isservations and should be completed quickly, taking no more than 5 minutes)
General elements of formal visual analysis to be consi	dered include:
their spatial arrangement. Basic landscape componen	nt of objects and voids in the landscape that can be categorized by ts include vegetation, landform, water, and sky. Some compositions, ailed, or feature-oriented, are more vulnerable to modifications than
of a landscape/seascape, as well as a project. Form n edge, outline, and surrounding space. Line refers to It or texture, usually evident as the edges of shapes or the visual surface characteristics of an object. The ext	najor compositional elements that define the perceived visual character efers to the shape of an object that appears unified, often defined by e path the eye follows when perceiving abrupt changes in form, color, nasses in the landscape/seascape. Texture, in this context, refers to ent to which form, line, color, and texture of a project are similar to or scape/seascape is a primary determinant of visual impact.
 Spatial Dominance: The degree to which an object or and thus dominates seascape composition from a spe 	r landscape/seascape element occupies space in a landscape/seascape cific viewpoint.
	ct in relation to its surroundings can define the compatibility of its scale le is likely to vary depending on the distance from which it is seen and
Principles of composition to be considered include	e:

Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape.

Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.

Sand, rolling waves, water, horizon, and sky; the strongly horizontal view is equally divided into sand and sky with a slip of deep blue ocean

Does this view contain a focal point? \square Yes \square No If yes, briefly identify/describe: Horizon line.

KOP: OCO1 Corson's SP Date: 24 February 2021 e natural order), which generally has an
e natural order), which generally has an
es 🗆 No
ers are seen for a more prolonged period the greatest potential for visual impact.
of an object or objects. These conditions ments and the design elements of form,
onditions could make the turbines more
ehind a feature or elements in a scene. I falling directly upon the area being ne side of the observer to a feature or of landscape and project elements.
nsus on the value of that particular ovide guidance in evaluating a project's
No

ATLANTIC	SHORES
WITWIALIT	PLICHT
	ffshore wind

through the middle

1. Focal Point

2. Order

Visual Impact Assessment Personnel: KAC		Visual Impact Assessment	Personnel: KAC
KOP: <u>OC01C</u> Date: <u>24 Febr</u>		D 10 111	KOP: <u>OC01 Corson's SP</u> Date: <u>24 February 2021</u>
Existing Conditions 1. In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1 liability to 9 distinct)		Proposed Conditions	sensitivity of each resource on a score of 1 to 9 (1 liability to 9 distinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should		Note: If an element is not present in the view the score should be 4.3	of 9.0 (no impact)
be a whole number score.	Coore	otherwise, rating should be a whole number score.	Water Resources: 6
Water Resources	Score 7		
			Landform: 6
Landform	6		Vegetation: 4.5
Vegetation			Land Use: 6
Land Use	6		User Activity: 6
User Activity	: 7		
Existing Conditions #1 Total	30.5	Collectively rate special conditions on a score of 0 to 9 (0 lial	pility to 9 distinct)
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high density)		Note: Special Conditions score is taken directly from Existing Condit be adjusted up or down based upon the Proposed Conditions view.	ions #2 Total and can
Special Condition A. Does this zone contain any scenic, cultural, or historic landmarks?	? 1		Special Conditions: 3
Special Condition B. Are there other aesthetic elements that add to this resource?	? 1		Total: 31.5
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/pollution)			31.5
Special Condition C. Is this zone free from pollution and/or litter	? 1	3. Comments:	
Existing Conditions #2 Total (Sum 2A through 2C)	3	light color of the turbines against the equally light sky and moderate atm	ately attract the viewer's attention when looking out to the ocean and horizon due to the iospheric haze. Upon looking closer at the background view the eye fixes on the bright cuses on the splay of silhouetted turbines to the left and right of the centered view that
Existing Conditions Grand Total (Sum #1 Total and #2 Total 3. Comments:	33.5	are not so heavily stacked on top of each other and more individualized	uses on the splay of simulcated tubries to the terrain origin of the certificate when that. The light color and fine texture of the turbines at 21.72-miles to the nearest turbine his viewing distance, especially under dark sky conditions or if the turbines were backlit.
Cultural Historic: Corson's Inlet State Park			
Aesthetic: Familiar East Coast beach typology and seascape; wide open beach.			
Litter: Beach visitor litter.			
Summary of View: The existing beach view is along a long stretch of open sand, rolling waves and an unobstructed ocean view. There the left of the view that provide an edge and sense of enclosure and privacy. This is a typical East Coast beach condition that provides goers to set up gathering spaces and beach recreation areas in order to fully enjoy the ocean environment.			
ATLANTIC SHORES offshore wind	3 of 6	ATLANTIC SHORES offshore wind	4 of 6
Vicual Impact Accessment Personnel: KAC		Vigual Impact Assessment	Personnel: KAC
Visual Impact Assessment Personnel: KAC KOP: OCOLO	Corson's SP	Visual Impact Assessment	KOP: OCO1 Corson's SP
Date: 24 Febr			Date: 24 February 2021
Proposed Conditions - Compatibility and Contrast Rating		Proposed Conditions 8. Visibility Threshold Level - Check the box next to the descript	ion that most closely describes the visual prominence of the Project from
Note: If an element is not present in the view the score should be a 0 (no impact), o rating should be a whole number score.	therwise,	the selected KOP.	· · · · · · · · · · · · · · · · · · ·
4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible)		Visibility Rating	Description
Water Resources: 1.5 Land Use: 1	7	close viewing; otherwise invisible. who was unaware of it in a	is near the extreme limit of visibility. It could not be seen by a person lvance and looking for it. Even under those circumstances, the object
Landform: 1 User Activity: 1	1	Visibility level 2. Visible when scanning in An object/phenomenon that	ng at it closely for an extended period. is very small and/or faint, but when the observer is scanning the
Vegetation: 0 Total: 4.5	j	the general direction of the study subject; otherwise likely to be missed by casual observers. https://doi.org/10.000/10.0000/10.0000/10.00000/10.00000000	sely at an area, can be detected without extended viewing. It could sual observers; however, most people would not notice it without
5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe)		Visibility level 3. Visible after a brief glance in the general direction of the study subject most casual observers, but	can be easily detected after a brief look and would be visible to without sufficient size or contrast to compete with major landscape/

Land Use: Water Resources: 1.5 1 Landform: User Activity: 1 1 Total: 4.5 Vegetation: 0 6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominant) Land Use: Water Resources: 1.5 1 User Activity: Landform: 1 1 Vegetation: Total: 0 4.5 7. Comments: Compatibility: The bright white turbines are not readily apparent on the horizon at this viewing distance. $Scale: \ \ The bright white turbines are not readily apparent on the horizon at 21.72-miles to the nearest turbine.$ Spatial Dominance: The bright white turbines are not visually dominant on the horizon at this viewing distance.

Visibility Daties	Pagariation.	
Visibility Rating Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	Description An object/ghenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it doesely for an extended period.	
Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	√
Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or confrast to compete with other landscape/seascape elements, but with insufficient visual confrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An objectlyhenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending lo hold that attention. In addition to strong contrasts in form, line, color, and texture, bright light sources such as lighting and reflectional and moving objects associated with the study subject may continuous substantially for drawing viewer attention. The visual prominence of the study subject interferes noticeably with views of neartry landscape/seascape elements.	
Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by furning one's head more than 45° from a direct view of the object. The object/phenomenon is the major focus of visual attention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, color, and testure, tright light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.	

Visual Impact Assessment			isual Impact Assessment	Personnel: KV
Date: 02-23-2021	Personnel: KV			KOP: OCO1 Corson's Inlet SI
			Principles of composition, continued:	Date: 02-23-2021
Landscape Similarity Zone: <u>Undeveloped Beach</u>	Key Observation Point Name/Number: OC01 Corson's In	nlet SI	3. Visual Clutter	
Key Observation Point (KOP) Familiarization	on		Numerous unrelated built elements occurring within a view can create adverse effect on scenic quality.	, , , , , , , , , , , , , , , , , , , ,
Landscape/seascape, viewer, and related factors to be considered	ed during evaluation of the KOP are outlined below.		Does this view contain elements that contribute to visual clutter?	✓ Yes ☐ No
	corporated into the scoring and comments on the VIA assessment for servations and should be completed quickly, taking no more than 5 min		If yes, how does the visual clutter affect the view? the centrally lo	cated lump of dark sea grass is a point of distraction from the view.
	, , , ,	´	 Movement Motion of existing and proposed elements in a view can attract viewer a 	attention
General elements of formal visual analysis to be consid	ered include:			
	at of objects and voids in the landscape that can be categorized by sinclude vegetation, landform, water, and sky. Some compositions,		Does this view contain elements in motion that are likely to attract	viewer attention? ☑ Yes ☐ No
	iled, or feature-oriented, are more vulnerable to modifications than		(If the answer is yes, Note these elements in rating form comment.	s)
	ajor compositional elements that define the perceived visual characte	ır	Factors affecting visual impact:	
of a landscape/seascape, as well as a project. Form ref	ers to the shape of an object that appears unified, often defined by	"	5. Duration of View	
	 path the eye follows when perceiving abrupt changes in form, color, asses in the landscape/seascape. Texture, in this context, refers to 		Some views are seen as quick glimpses while driving along a roadway of time. Longer duration views of a project, especially from significant	
	nt to which form, line, color, and texture of a project are similar to or cape/seascape is a primary determinant of visual impact.		The duration of this view is: Short Term/Fleeting Long-t	
 Spatial Dominance: The degree to which an object or and thus dominates seascape composition from a spec 	landscape/seascape element occupies space in a landscape/seascapific viewpoint.	pe	The frequency of this view is: Repeated Occasional	
	t in relation to its surroundings can define the compatibility of its scale e is likely to vary depending on the distance from which it is seen and		6. Almospheric Conditions Clouds, precipitation, haze, and other ambient weather-related conditions can greatly impact the visibility and contrast of project components with line, color, texture, and scale.	
Principles of composition to be considered include	:		Conditions in this view can be described as: Clear Partly	y Cloudy Overcast Hazy
1. Focal Point			Conditions that may increase/decrease visibility could be describe	
physical characteristics. Focal points often contrast wit tend to draw a viewer's attention. Examples include pr	ures stand out and are particularly noticeable as a result of their help in their surroundings in color, form, scale, or texture, and therefore ominent frees, mountains, or cultural features, such as a distinctive estled so as to obscure or compete with important existing focal point.	nts	7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming for Front lighting refers to a situation where the light source is coming for viewed. Side lighting refers to a viewing situation in which sunlight is o elements in a scene. Lighting direction can have a significant effect or	n behind the observer and falling directly upon the area being coming from overhead or the side of the observer to a feature or
·	is a focal point, but the contrast between sand, ocean and sky also draws attention			
Order			The relevant lighting condition can be described as: backlit	frontlit 🔲 side-lit
Natural landscapes/seascapes have an underlying ord by displaying traditional or logical patterns of land use/ this natural order may detract from scenic quality. Whe	er determined by natural processes. Cultural landscapes exhibit orde development. Elements in the landscape that are inconsistent with in a new project is introduced to the landscape, intactness and order s, colors, and textures existing in the surrounding built or natural	er	Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that resource. The characteristics of the resource that contribute to its scen	
environment.			visual impact on that resource.	
Does this view contain a natural order?	□ No		Would viewers consider this location a valued scenic or recreational re	esource? ☑ Yes ☐ No
	tones and blue hues, re-centers the viewer after being distracted y the lump of dark		How would the site be used for scenic or recreational enjoyment?	is State Park provides location for variety of beach enjoyment, bird
sea grass.				is State Park provides location for variety of deach enjoyment, bird atching, and fishing.
ATLANTIC SHORES offshore wind		1 of 6	ATLANTIC SHORES offshore wind	20

No. and house of Assessment	Personnel: KV	
Visual Impact Assessment	KOP: OCO1 Corson's	c Inlot SI
		s iiilet Sr
Existing Conditions	Date: <u>02-23-2021</u>	
1. In the existing view rate the aesthetic quality/sensitivity of each resource on	a score of 1 to 9 (1 liability to 9 distinct)	
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impaid be a whole number score.	ct), otherwise, rating should	
		Scor
	Water Resources:	7
	Landform:	6
	Vegetation:	4
	Land Use:	7
	User Activity:	7
	Existing Conditions #1 Total:	31
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 be	eing high density)	
Special Condition A. Does this zone contain any scen	nic, cultural, or historic landmarks?	2
Special Condition B. Are there other aesthetic e	elements that add to this resource?	1
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3	free of litter/pollution)	
Special Condition C. Is this zo	one free from pollution and/or litter?	3
Existing Condition	ns #2 Total (Sum 2A through 2C)	6
Existing Conditions Grand 3. Comments:	Total (Sum #1 Total and #2 Total)	37
movement attracting viewer attention: birds and waves.		
This scene represents an undisturbed section of beach front within a state park. The oper against the pale blue and partially cloudy sky. White capped waves gently roll ashare and Vegetation within the framed view is represented by lumps of sea grasses washed along dune system exists just beyond the view. Land use within the view is primarily low impact land use. However, just beyond the framed view the context image indicates heavy devel distinct. Similarly, user activity at this location takes enrigionent from the quiet, undevelop the properties of the pro	white sea birds speckle the upper left portion of the sho the beach. However, the context view indicates that a he recreation. The undeveloped expanse also indicates a opment on the distant horizon indicating this preserved I	reline. ealthy natura preservation

Visual Impact Assessment	Personnel: KV	
	KOP: OCO1 Corson	n's Inlet S
Proposed Conditions	Date: <u>02-23-2021</u>	
With the proposed project in place, rate the aesthetic quality/sensitivity of each re	esource on a score of 1 to 9 (1 liability to 9 (distinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact),	,	Sco
otherwise, rating should be a whole number score.	Water Resources:	
	water Resources.	6
	Landform:	6
	Vegetation:	4
	Land Use:	7
		<u></u>
	User Activity:	6
	Total:	
	Total:	3
3. Comments:	Total:	3

Visual Impact Assessn	nent Pe	rsonnel: KV KOP: OCO1 Corson's Inlet SF	Visual Impact Assessi	ment Personnel: <u>KV</u> KOP: OCO1 Corson's Inlet SI
	lity and Contrast Rating element is not present in the view the score should but be a whole number score.	Date: <u>02-23-2021</u>	Proposed Conditions 8. Visibility Threshold Level - Check th the selected KOP.	Date: <u>02-23-2021</u> e box next to the description that most closely describes the visual prominence of the Project from
Rate the compatibility of the proposed project on a	a scale of 1 to 3 (1 compatible to 3 not compatible	, 	Visibility Rating	Description
Water Resources:	2 Land Use:	3	Visibility level 1. Visible only after extended, close viewing: otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and booking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.
Landform: Vegetation:	2 User Activity: 1 Total:	3 11	Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be delected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.
Rate scale contrast of the proposed project on a so Water Resources:			Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.
Landform: Vegetation:	2 User Activity: 1 Total:	2 2 9	Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly affact visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.
Rate spatial dominance of the proposed project or Water Resources: Landform: Vegetation:	2 Land Use: 2 User Activity: 1 Total:	2 3	Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An objectlyhenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention in addition is storing contrasts in form, line, clotic, and texture, bright light sources such as lighting and reflections and moving objects associated with the study subject may contribute substantially of drawing viewer attention. In evisual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements.
7. Comments: The white turbines on the horizon are somewhat compatible.	le with water resources as they echo the white capped v	vaves to diminish the affect of their high	Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in large general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance.	An objectlyhenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it carront be avoided except by furning one's head more than 45° from a direct view of the object. The object/phenomenon is the major floous of visual attention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, color, and tecture, tright light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.
visibility. This may not hold true under back-lit lighting cond the landform and compatible with the strewn grasses along compatible with the WTGs.				
Scale contrast of the WTG at this location is moderate, but atmospheric hazing.	has potential to but stronger with more back-lit lighting	conditions, or lessened with increased	9. Comments:	
			Under these lighting conditions the WTGs a	are plainly visible, but do not strongly attract viewer attention. Other lighting or atmospheric conditions may serve to

increase the VTL at this location

ATLANTIC SHORES

Visual Impact Assessment Date: March 06, 2021 Personnel: Steve Breitzka Landscape Similarity Zone: <u>Undeveloped Beach</u> Key Observation Point Name/Number: OC01 Key Observation Point (KOP) Familiarization Landscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.

Spatial dominance of the WTGs is co-dominant for water resources, landform, and land use because the WTGs are front and center to a viewer who squares

spanial commander or the YMS is co-domination to wheer resources, including, and aim use recease in a YMS are from the retired to a viewer with spanish themselves to the cocan. However, the low contrast coloring and diminishes size at this distance may not draw considerable alternitor. Yel, User Activity is dominated by the WTGs due to the previous undeveloped experience. In addition, the low contrast color of the turbines does help to diminish visibility, but some viewers may find increased viewing times as their gaze works to distinguish what is seen on the horizon.

The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form (proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes)

General elements of formal visual analysis to be considered include:

- Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions, especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or ephemeral landscapes.
- · Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character From, time, color, and returner insect a first ordinary compositional elements that ceiting unless that an advantage of a landscape/seascape, as well as a project. From refers to the shape of an object that appears unified, often defined by edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.
- Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint.
- Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale
 within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and

Principles of composition to be considered include:

1. Focal Point

ATLANTIC SHORES

Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape.

Does this view contain a focal point?

Yes

No

If yes, briefly identify/describe:

2. Order

Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.

Does this view contain a natural order?
Yes
No If yes, how does the natural order affect the view'

Visual Impact Assessment	Personnel: Steve Breitzka
Lance Control of the	KOP: <u>OC01</u>
Principles of composition, continued:	Date: March 06, 2021
 Visual Clutter Numerous unrelated built elements occurring within a view can create visual clutt adverse effect on scenic quality. 	er (disrupting the natural order), which generally has an
Does this view contain elements that contribute to visual clutter? $\hfill \square$ Yes	☑ No
If yes, how does the visual clutter affect the view?	
Movement Motion of existing and proposed elements in a view can attract viewer attention.	
Does this view contain elements in motion that are likely to attract viewer atte	ention? Ves No
(If the answer is yes, Note these elements in rating form comments)	
Factors affecting visual impact:	
 Duration of View Some views are seen as quick glimpses while driving along a roadway or hiking of time. Longer duration views of a project, especially from significant aesthetic 	
The duration of this view is: Short Term/Fleeting Long-term	
The frequency of this view is: \square Repeated \square Occasional	
6. Atmospheric Conditions Clouds, precipitation, haze, and other ambient weather-related conditions can all can greatly impact the visibility and contrast of project components with landscaline, color, feature, and scale. Conditions in this view can be described as: ☐ Clear ☐ Parity Cloudy ☐	pe/seascape elements and the design elements of form,
	•
Conditions that may increase/decrease visibility could be described as: The visib 7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming toward the Front lighting refers to a situation where the light source is coming from behind viewed. Side lighting refers to a viewing situation in which sunlight is coming fron elements in a scene. Lighting direction can have a significant effect on the visibil	ole. observer from behind a feature or elements in a scene. he observer and falling directly upon the area being m overhead or the side of the observer to a feature or
The relevant lighting condition can be described as:	☑ side-lit
8. Scenic or Recreational Value	
Designation as a scenic or recreational resource is an indication that there is bro resource. The characteristics of the resource that contribute to its scenic or recru visual impact on that resource.	
Would viewers consider this location a valued scenic or recreational resource?	✓ Yes □ No

How would the site be used for scenic or recreational enjoyment? People visiting the State Park will be here for the open beach and views

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Visual Impact Assessment	Personnel: <u>Steve Bre</u>	itzka	Visual Impact Assessment	Personnel: Steve Breitzka	3
Existing Conditions	KOP: <u><i>OC01</i></u> Date: <u><i>March 06</i>,</u>	2021	Proposed Conditions	KOP: <u>OC01</u> Date: <u>March 06, 202</u>	<u> </u>
•	itivity of each resource on a score of 1 to 9 (1 liability to 9 distinct)		With the proposed project in place, rate the aesthetic quality/sensitivity of each rate the aesthetic quality of ea	resource on a score of 1 to 9 /1 liability to 9 die	stinct)
Note: If an element is not present in the view the score s.			Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact),	esource on a score of 1 to 7 (1 hability to 7 dis	stincty
be a whole number score.			otherwise, rating should be a whole number score.		Score
		Score		Water Resources:	3
	Water Resources:	9		Landform:	3
	Landform:	7		Vegetation:	4.5
	Vegetation:	4.5		Land Use:	2
	Land Use:	8		User Activity:	2
	User Activity:	8			
	Existing Conditions #1 Total:	36.5	2. Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct)		
2. Respond to each question below using a score of	0 to 3 (0 not present to 3 being high density)		Note: Special Conditions score is taken directly from Existing Conditions #2 Total and car be adjusted up or down based upon the Proposed Conditions view.	n Special Conditions:	3
Special Condition A. Does this	zone contain any scenic, cultural, or historic landmarks?	2		·	3
Special Condition B. Are to	there other aesthetic elements that add to this resource?	1		Total:	17.5
Respond to each question below using a score of 0 to	o 3 (0 littered/polluted to 3 free of litter/pollution)				.,,,
Special	Condition C. Is this zone free from pollution and/or litter?	3	3. Comments:		
	Existing Conditions #2 Total (Sum 2A through 2C)	6	This view becomes less a of open water and more focused on expansive wind turbines that s against the dark blue water: they appear as white spindles along the horizon. The spacing distinguish. The turbines are more noticeable toward the center as the spacing stacks them,	nakes the turbines on the far left and far right more di	
Existin 3. Comments:	g Conditions Grand Total (Sum #1 Total and #2 Total)	42.5	usangusii. The turunes are ninte houceaue towaru nie center as the spacing stacks them,	overlapping them and increasing their density.	
Open dark beige colored sandy beach, rich blue textured w the sea meets the white hazy sky. The sky then turns to a	vater with low waves cresting white at the shore, and a perfectly straight uninternal warm medium blue.	upted horizon where			
ATLANTIC SHORES offshore wind		3 of 6	ATLANTIC SHORES offshore wind		4 of 6
\C	Porconnal: Steve Bre	itzka	Vicual Impact Accessment	Personnel: Steve Breitzka	a

ASUAL IMDACI ASSESS	Visual Impact Assessment		Personnel: Steve Breitzka	
			KOP: <i>OC01</i>	
Proposed Conditions - Compati	ibility and Contr	ast Rating	Date: March 06, 2021	
	f an element is not presen should be a whole number	t in the view the score should be score.	e a O (no impact), otherwise,	
4. Rate the compatibility of the proposed project	on a scale of 1 to 3 (1 co	mpatible to 3 not compatible)		
Water Resources:	2	Land Use:	2	
Landform:	2	User Activity:	2	
Vegetation:	0	Total:	8	
5. Rate scale contrast of the proposed project on	a scale of 1 to 3 (1 minir	nal to 3 severe)		
Water Resources:	2	Land Use:	2	
Landform:	2	User Activity:	2	
Vegetation:	0	Total:	8	
6. Rate spatial dominance of the proposed project	t on a scale of 1 to 3 (1 s	subordinate, 2 co-dominant, 3	dominant)	
Water Resources:	2	Land Use:	2	
Landform:	2	User Activity:	2	
Vegetation:	0	Total:	8	

roposed Conditions	Date: <u>March 06, 202</u>	21
'	e box next to the description that most closely describes the visual prominence of the Pr	oject from
Visibility Rating	Description	
'isibility level 1. Visible only after extended, lose viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
fisibility level 2. Visible when scanning in the general direction of the study subject; therwise likely to be missed by casual bservers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
risibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual bservers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	
risibility level 4. Plainly visible, so could to be missed by casual observers, but loes not strongly attract visual attention or tominate the view because of its apparent ize, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape-seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
risibility level 5. Strongly attracts the visual tlention of views in the general direction of he study subject. Attention may be drawn by the strong contrast in form, line, color, or exture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual alterition, drawing viewer afterition immediately and tending to hold that alterition in addition to strong contrasts in form, line, color, and lexture, bright light sources such as lighting and reflectional and moving objects associated with the study subject may contribute substantially of drawing viewer affection. The visual promisence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	√
Tisbillity level 6. Dominates the view ecause the study subject fills most of the sual field for views in its general direction. trong contrasts in form, line, color, texture, minance, or motion may contribute to ew dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by turning one is head more than 45° from a direct view or the object. The object/phenomenon is the major focus of visual alteration, and its large apparent size is a major factor in its view dominance. In addition to size, contracts in from, fill in contract the contract of the	

9. Comment

5 of 6

The turbines attract the visual attention because there is nothing else to do so in this view. The horizon is a perfect flat line, accentuated by the color change between the dark blue water and the pale white blue sky.



Visual Impact Assessment	Visual Impact Assessment	Personnel: Jocelyn Gavitt
•		KOP: OC04 Gillian's Wonder
Date: 2/17/21 Personnel: Jocelyn Gavitt	Principles of composition, continued:	Date: 2/17/21
.andscape Similarity Zone: Oceanfront Commercial Key Observation Point Name/Number: OC04 Gillian's W	1 1	
Key Observation Point (KOP) Familiarization	Numerous unrelated built elements occurring within a view can create visual clu adverse effect on scenic quality.	
andscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.	Does this view contain elements that contribute to visual clutter?	s 🗆 No
The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment for proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 m	inutes	rge as a one point perspective on the horizon.
	4. Movement Motion of existing and proposed elements in a view can attract viewer attention	
General elements of formal visual analysis to be considered include:		
 Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions, especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than 	Does this view contain elements in motion that are likely to attract viewer a (If the answer is yes, Note these elements in rating form comments)	Itention? bd Yes I No
panoramic, canopied, or ephemeral landscapes.	Factors affecting visual impact:	
 Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by 	er	
edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color,	Some views are seen as quick glimpses while driving along a roadway or hikin	og a trail, while others are seen for a more prolonged period
or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or	of time. Longer duration views of a project, especially from significant aesthetic	
contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.	The duration of this view is: Short Term/Fleeting Long-term	
 Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seasca and thus dominates seascape composition from a specific viewpoint. 	The frequency of this view is: ☑ Repeated ☐ Occasional	
• Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scal		
within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors.	d Clouds, precipitation, haze, and other ambient weather-related conditions can can greatly impact the visibility and contrast of project components with landsc line, color, texture, and scale.	
Principles of composition to be considered include:	Conditions in this view can be described as: ☑ Clear ☐ Partly Cloudy	Overcast Hazy
1. Focal Point	Conditions that may increase/decrease visibility could be described as: In	creased moisture in the air could impact visibility.
Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their	7. Lighting Direction	
physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal poi in the landscape/seascape.	Backlighting refers to a viewing situation in which sunlight is coming toward the	d the observer and falling directly upon the area being rom overhead or the side of the observer to a feature or
Does this view contain a focal point? Yes No		
If yes, briefly identify/describe:	The relevant lighting condition can be described as: backlit fronti	it 🗸 side-lit
2. Order		
Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit ord by displaying traditional or logical patterns of land useldevelopment. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.	0. Scenic of Recreational Value	road public consensus on the value of that particular reational value provide guidance in evaluating a project's
Does this view contain a natural order? Yes No If yes, how does the natural order affect the view?	Would viewers consider this location a valued scenic or recreational resource?	Yes No
The built environment is cluttered but contained as one body of shoreline balanced by open water and open sky.	How would the site be used for scenic or recreational enjoyment? This view is	from a highly used recreational beachfront area
ATLANTIC SHORES offshore wind	1 of 6 ATLANTIC SHORES offshore wind	:

ATLANTIC SHORES offshore wind		1 of 6	ATLANTIC SHORES offshore wind		2 of 6
Visual Impact Assessment	Personnel: Jocelyn Gavi	tt	Visual Impact Assessment	Personnel: Jocelyn Ga	vitt
·	KOP: OC04 Gillian	's Wonden	riodal impact / tooccinone	KOP: OC04 Gillia	n's Wonder
Existing Conditions	Date: <u>2/17/21</u>		Proposed Conditions	Date: <u>2/17/21</u>	
1. In the existing view rate the aesthetic quality/sensitivity of each resource on	a score of 1 to 9 (1 liability to 9 distinct)		With the proposed project in place, rate the aesthetic quality/sensitivity o	f each resource on a score of 1 to 9 (1 liability to 9	distinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact be a whole number score.	t), otherwise, rating should		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no in otherwise, rating should be a whole number score.	npact),	Score
		Score		Water Resources:	2
	Water Resources:	8		Landform:	3
	Landform:	6		Vegetation:	4.5
	Vegetation:	4.5		Land Use:	3
	Land Use:	7		User Activity:	3
	User Activity:	8			
	Existing Conditions #1 Total:	33.5	2. Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 dis	stinct)	
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 be	eing high density)		Note: Special Conditions score is taken directly from Existing Conditions #2 Total be adjusted up or down based upon the Proposed Conditions view.	and can Special Conditions:	3
Special Condition A. Does this zone contain any scen	nic, cultural, or historic landmarks?	2			
Special Condition B. Are there other aesthetic e	lements that add to this resource?	2		Total:	18.5
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3	free of litter/pollution)				
Special Condition C. Is this zo	ne free from pollution and/or litter?	2	3. Comments:		
Existing Conditio	ns #2 Total (Sum 2A through 2C)	6	The proposed turbine field creates strong lines of turbines receding out into the ocea dominating the horizon line and creating a completely attered condition in the open w be animated by the wind. There is a very strong impact in this view.		
Existing Conditions Grand 3. Comments:	Total (Sum #1 Total and #2 Total)	39.5			
This view up the large sandy beach and out into the open wavy water is filled with people the open water. The waves combined with the presence of beach users creates motion in the horizon.					

Visual Impact Assessment Personnel: Jocelyn Gavitt KOP: OC04 Gillian's Wonder Date: 2/17/21 **Proposed Conditions - Compatibility and Contrast Rating** Note: If an element is not present in the view the score should be a 0 (no impact), otherwise. rating should be a whole number score. 4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible) Water Resources: Land Use: 3 2 User Activity: Landform: 2 2 Vegetation: 9 5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) $\,$ Water Resources: 3 Land Use: 3 Landform: 2 User Activity: 3 Vegetation: 0 Total: 11 6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominant) Water Resources: Land Use: 2 User Activity: 2 Vegetation: Total: 0 10 7. Comments: The turbines occupy the horizon and become a focus in this view. The arrangement of the rows of turbines creates strong lines and circumstance. They have a

Visual Impact Assessment Personnel: Jocelyn Gavitt KOP: OC04 Gillian's Wonder Date: 2/17/21 **Proposed Conditions** 8. Visibility Threshold Level - Check the box next to the description that most closely describes the visual prominence of the Project from the selected KOP. Visibility Rating An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period. An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking. Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers. Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers. An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject. An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field. An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to strong contrasts in form, fine, color, and texture, bright light sources such as lighting and reflections and moving objects associated with the study subject may contribute substantially of carwing viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements. Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion. Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction Strong contrasts in form, line, color, texture luminance, or motion may contribute to view dominance. \checkmark 9. Comments: The turbines are highly visible and become a focus of this view

ATLANTIC SHORES

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Date: 17 February 2021	Personnel: KAC
Landscape Similarity Zone: Oceanfront Commercial	Key Observation Point Name/Number: OC04 Gillian's WPier
Key Observation Point (KOP) Familiarization	on
Landscape/seascape, viewer, and related factors to be considere	d during evaluation of the KOP are outlined below.
	orporated into the scoring and comments on the VIA assessment form ervations and should be completed quickly, taking no more than 5 minutes,
General elements of formal visual analysis to be consider	ered include:
their spatial arrangement. Basic landscape components	of objects and voids in the landscape that can be categorized by include vegetation, landform, water, and sky, Some compositions, ed, or feature-oriented, are more vulnerable to modifications than
of a landscape/seascape, as well as a project. Form refe edge, outline, and surrounding space. Line refers to the or texture, usually evident as the edges of shapes or ma	jor compositional elements that define the perceived visual character are to the shape of an object that appears unified, often defined by path the eye (flows when perceiving abrupt changes in form, color, ssess in the landscape/seascape. Texture, in this context, refers to it to which form, line, color, and texture of a project are similar to or ape/seascape is a primary determinant of visual impact.
Spatial Dominance: The degree to which an object or la and thus dominates seascape composition from a specif	andscape/seascape element occupies space in a landscape/seascape fic viewpoint.
	in relation to its surroundings can define the compatibility of its scale is likely to vary depending on the distance from which it is seen and
Principles of composition to be considered include:	
1. Focal Point	
physical characteristics. Focal points often contrast with tend to draw a viewer's attention. Examples include pro	ures stand out and are particularly noticeable as a result of their their surroundings in color, form, scale, or texture, and therefore minent trees, mountains, or cultural features, such as a distinctive e sited so as to obscure or compete with important existing focal points
Does this view contain a focal point? <a> Yes	
If yes, briefly identify/describe: Horizon line, however, the	he real focal point is the Pier to the left that is out of view.
2. Order	
by displaying traditional or logical patterns of land use/o this natural order may detract from scenic quality. Wher	or determined by natural processes. Cultural landscapes exhibit order development. Elements in the landscape that are inconsistent with 1 a new project is introduced to the landscape, intactness and order 5, colors, and textures existing in the surrounding built or natural
Does this view contain a natural order? Yes I fyes, how does the natural order affect the view?	□ No
Sand, surf, large waves and horizon; horizontal landscape wit	h a strong perspective point to the left that the rolling surf fans out from.

sual Impact Assessment	Personnel: KAC
1	KOP: OCO4 Gillian's WPier
Principles of composition, continued:	Date:_17 February 2021
3. Visual Clutter	
Numerous unrelated built elements occurring within a view can create visual clutter (adverse effect on scenic quality.	
Does this view contain elements that contribute to visual clutter? Yes] No
If yes, how does the visual clutter affect the view? N/A	
4. Movement	
Motion of existing and proposed elements in a view can attract viewer attention.	
Does this view contain elements in motion that are likely to attract viewer attention	on? 🛮 Yes 🗆 No
(If the answer is yes, Note these elements in rating form comments)	
Factors affecting visual impact:	
5. Duration of View	
Some views are seen as quick glimpses while driving along a roadway or hiking a tr of time. Longer duration views of a project, especially from significant aesthetic resc	
The duration of this view is: \square Short Term/Fleeting $\!$	
The frequency of this view is: <a> Repeated <a> Occasional	
6. Atmospheric Conditions	
Clouds, precipitation, haze, and other ambient weather-related conditions can affect can greatly impact the visibility and contrast of project components with landscape/s line, color, texture, and scale.	
Conditions in this view can be described as: \square Clear \square Partly Cloudy \square	Overcast 🗹 Hazy
Conditions that may increase/decrease visibility could be described as: Clear st	cy conditions would increase the visibility to the blade
7. Lighting Direction	
Backlighting refers to a viewing situation in which surlight is coming loward the obs- Front lighting refers to a situation where the light source is coming from behind the viewed. Side lighting refers to a viewing situation in which surlight is coming from elements in a scene. Lighting direction can have a significant effect on the visibility.	observer and falling directly upon the area being werhead or the side of the observer to a feature or
The relevant lighting condition can be described as: 🛭 backlit 🔲 frontlit 🗀	side-lit
8. Scenic or Recreational Value	
Designation as a scenic or recreational resource is an indication that there is broad resource. The characteristics of the resource that contribute to its scenic or recreati visual impact on that resource.	
Would viewers consider this location a valued scenic or recreational resource?	Yes No
How would the site be used for scenic or recreational enjoyment? Open beach with	large waves.

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ATLANTIC SHORES

ATLANTIC SHORES

Visual Impact	Assessment	Personnel: KAC		Visual Impact Assessment	Personnel: KAC	
		KOP: OCO4 Gillian	's WPier	Visual impact Assessment	KOP: OCO4 Gillian's	s WPier
Existing Conditi	ons	Date: 17 February	2021	Proposed Conditions	Date: 17 February 2	2021
In the existing view rate	e the aesthetic quality/sensitivity of each resource on a so	core of 1 to 9 (1 liability to 9 distinct)		With the proposed project in place, rate the aesthetic quality/sensitivity of the control o	of each resource on a score of 1 to 9 (1 liability to 9 di	stinct)
Note: If an element is not p be a whole number score.	present in the view the score should be 4.5 of 9.0 (no impact), a	otherwise, rating should		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no otherwise, rating should be a whole number score.	impact),	Score
			Score		Water Resources:	7
		Water Resources:	8		Landform:	7
		Landform:	7		Vegetation:	4.5
		Vegetation:	4.5		Land Use:	7
		Land Use:	7		User Activity:	6
		User Activity:	7			
		Existing Conditions #1 Total:	33.5	 Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 di Note: Special Conditions score is taken directly from Existing Conditions ≢2 Tota 		
2. Respond to each quest	tion below using a score of 0 to 3 (0 not present to 3 being	ı high density)		be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	3
Special	Condition A. Does this zone contain any scenic,	, cultural, or historic landmarks?	1			
Sp	pecial Condition B. Are there other aesthetic eler	nents that add to this resource?	1		Total:	34.5
Respond to each questio	n below using a score of 0 to 3 (0 littered/polluted to 3 free	e of litter/pollution)				
	Special Condition C. Is this zone	free from pollution and/or litter?	1	3. Comments:		
	Existing Conditions	#2 Total (Sum 2A through 2C)	3	The Project is minimally visible above the horizon/surf line with just the tips of blade: neatly ordered along the extent of the surf/horizon line in the view. It is probable tha an intermittent basis and the waves retain their visual dominance in the midground v	at the rolling, aggressive wave action obstructs the backgroun	nd blade tips on
3. Comments:	Existing Conditions Grand Tot	al (Sum #1 Total and #2 Total)	36.5	could make a very interesting visual tapestry during surfing activities.		
Cultural Historic: Ocean C	ity Beach Front					
Aesthetic: Open beach with	large waves.					
Litter: Beach visitor litter.						
dynamic and visually captive sky all encompassing varying	nificance of the existing view is the viewers proximity to the Pier a aling in their size, action, sound, and perceived power. The exist of shades of French gray, and the surfers and visitors showing as vizon line and the rolling surf from this vantage point, therefore, the	ing condition color is monochromatic with the sand black silhouettes against the roaring waves. It is	d, surf, waves and difficult to			
ATLANTIC SH offsho			3 of 6	ATLANTIC SHORES offshore wind		4 of 6
Visual Imp	act Assessment	Personnel: KAC		Visual Impact Assessment	Personnel: KAC	- M/D:

KOP: OC04 Gillian's WPier KOP: OC04 Gillian's WPier Date: 17 February 2021 Date: 17 February 2021 Proposed Conditions - Compatibility and Contrast Rating Proposed Conditions 8. Visibility Threshold Level - Check the box next to the description that most closely describes the visual prominence of the Project from Note: If an element is not present in the view the score should be a 0 (no impact), otherwise, rating should be a whole number score. Visibility Rating Description 4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible) An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period. Visibility level 1. Visible only after extended, close viewing; otherwise invisible. П Water Resources: 1.5 Land Use: 1 An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometime be notified by assal observers; however, most people would not notice it without some active looking. Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers. Landform: 1.5 User Activity: 1.5 Vegetation: 0 Total: 5.5 Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers. An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ 5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) \checkmark seascape elements Water Resources: 1.5 1 Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject. An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field. Landform: User Activity: 1 1 Vegetation: 0 Total: 4.5 6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominant) Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion. An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention in addition to strong contrasts in form, line, color, and texture, bright light sources such as lighting and reflections and moving objects associated with the study subject may contribute substantially of carwing viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements. Water Resources: 1.5 Land Use: 1 Landform: 1 User Activity: 1 Vegetation: 0 Total: 4.5 Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance. An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by turning one's head more than 45' from a direct view of the object. The object/phenomenon is femally focus of Visual atlention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in from, line, cotic, and leathure, tight light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject directs on locateally from viewer of other landscapedesscape elements. 7. Comments: Compatibility: The rolling surf and waves almost fully conceal the blade tips, which indicates that on high tide and during stormy weather, it is likely that the Project would not be less visible, or possibly not seen at all. The organized rows of rotors offer a unique optic form this vantage point. ale: The rotors and blades only partially break the horizon/surf line, and the ongoing wave crash movement will offset the rotor mo Spatial Dominance: The wide breadth of open sand to the crashing waves maintains spatial dominance in this view despite the number of turbine blades that N/A



Visual Impact Assessment	Visual Impact Assessment Personnel: KV
Date: 02-18-2021 Personnel: KV	KOP: <u>OCO4 - Gillian's Wonda</u>
	Principles of composition, continued: Date: <u>02-18-2021</u>
Landscape Similarity Zone: <u>Oceanfront Residential</u> Key Observation Point Name/Number: <u>OC04 - Gillian's Wo</u>	
Key Observation Point (KOP) Familiarization	Numerous unrelated built elements occurring within a view can create visual clutter (disrupting the natural order), which generally has an adverse effect on scenic quality.
Landscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.	Does this view contain elements that contribute to visual clutter? Yes No
The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form (proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 min	nutes)
	4. Movement Metion of cycling and proposed elements in a view con attact viewer attention
General elements of formal visual analysis to be considered include:	Motion of existing and proposed elements in a view can attract viewer attention.
Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by	Does this view contain elements in motion that are likely to attract viewer attention? 🗹 Yes 🗌 No
their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions, especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or ephemeral landscapes.	(If the answer is yes, Note these elements in rating form comments)
Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character	Factors affecting visual impact:
of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by	5. Duration of View
edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or	Some views are seen as quick glimpses while driving along a roadway or hiking a trail, while others are seen for a more prolonged period of time. Longer duration views of a project, especially from significant aesthetic resources, have the greatest potential for visual impact.
contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.	The duration of this view is: ☐ Short Term/Fleeting ☑ Long-term
 Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint. 	e The frequency of this view is: ☐ Repeated ☑ Occasional
 Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors. 	6. Atmospheric Conditions Clouds, precipitation, haze, and other ambient weather-related conditions can affect the visibility of an object or objects. These conditions can greatly impact the visibility and contrast of project components with landscape/seascape elements and the design elements of form, line, color, texture, and scale.
Principles of composition to be considered include:	Conditions in this view can be described as: ☐ Clear ☐ Partly Cloudy ☐ Overcast ☑ Hazy
1. Focal Point	Conditions that may increase/decrease visibility could be described as: visibility may decrease with overcast skies
Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal point in the landscape/seascape.	7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming toward the observer from behind a feature or elements in a scene. Front lighting refers to a situation where the light source is coming from behind the observer and falling directly upon the area being viewed. Side lighting refers to a viewing situation in which sunlight is coming from overhead re to also observer to a feature or elements in a scene. Lighting direction can have a significant effect on the visibility and contrast of landscape and project elements.
Does this view contain a focal point? Yes No	
If yes, briefly identify/describe: the silhouelted person serves as a focal point in this photo, but the view itself has no stationary focal point	The relevant lighting condition can be described as: ☑ backlit ☐ frontlit ☐ side-lit
2. Order	
Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/devolpment. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.	8. Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that there is broad public consensus on the value of that particular resource. The characteristics of the resource that contribute to its scenic or recreational value provide guidance in evaluating a project's visual impact on that resource.
Does this view contain a natural order? \square Yes \square No If yes, how does the natural order affect the view?	Would viewers consider this location a valued scenic or recreational resource? 🗹 Yes 🔲 No
the lint and tone of the sky repeals across the gentle sandy slope marked by tides and scattered with pieces of shell before meeting the ocean and rising waves, the affect is a soft and subtle view that engages the eye as a whole.	d How would the site be used for scenic or recreational enjoyment? This site has a boardwalk and beach access as well as an amusement park and Ocean City Music Pter
ATLANTIC SHORES offshore wind	1 of 6 ATLANTIC SHORES 2

Visual Impact Assessment	Personnel: KV	
1	KOP: OCO4 - Gillian	's Wond
Existing Conditions	Date: <u>02-18-2021</u>	
In the existing view rate the aesthetic quality/sensitivity of each resource on a	score of 1 to 9 (1 liability to 9 distinct)	
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact be a whole number score.	t), otherwise, rating should	
		Score
	Water Resources:	6
	Landform:	6
	Vegetation:	4.5
	Land Use:	5
	User Activity:	5
	Existing Conditions #1 Total:	26.5
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 bei	ing high density)	
Special Condition A. Does this zone contain any scen	ic, cultural, or historic landmarks?	1
Special Condition B. Are there other aesthetic el	ements that add to this resource?	0
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 fi	ree of litter/pollution)	
Special Condition C. Is this zor	ne free from pollution and/or litter?	3
Existing Condition	s #2 Total (Sum 2A through 2C)	4
Existing Conditions Grand To 3. Comments:	otal (Sum #1 Total and #2 Total)	30.5
Motion attracting Wewer attention: large crashing waves, beach users. This open shoreline beach view demonstrates a large and wide beachfront with large crast expansive ocean. No vegetation exists within the view frame, but vegetative dunes are local and amusement park. While fairly common for this region the width of the beach is somewhand have easy access to the amenities of the boardwalk. Land use is directed to summer screen after the peak of forurism find surfers and other beach once finding nordinised endors.	ated at the far distance of the sandy beach just in front hat notable and provides ample room for summer crow tourism as is a majority of user activity. However, this	of a boardwalk ods to gather

pp: OCO4 - Gilli. te: O2-18-2021 o 9 (1 liability to 9 Resources: Landform: Vegetation: Land Use:	Scc 4
o 9 (1 liability to 9 Resources: Landform: Vegetation:	Scc 4
Resources: Landform: Vegetation:	Scc 4
Landform: Vegetation:	4.
Landform: Vegetation:	4.
Vegetation:	4.
Ü	_
Land Use:	
	5
ser Activity:	5
Conditions:	4
Total:	28
arge waves the WTV acelle and above. Si ows begin to loose d oparent this gives an al nature of the shore oward summer touris	tacking of the efinition and indication of eline and may
	arge waves the WTi celle and above. S was begin to loose d parent this gives an Il nature of the shore



Ocean city beach front is the only identified resource at this location. No litter is currently within the view.

Personnel: <u>KV</u>	Visual Impact Assessr	ment Personnel: KV
KOP: <u>OC04 - Gillian's Wond</u>		KOP: <u>OC04 - Gillian's Wond</u>
ontrast Rating Date: <u>02-18-2021</u>	Proposed Conditions	Date: <u>02-18-2021</u>
resent in the view the score should be a 0 (no impact), otherwise, imber score.	Visibility Threshold Level - Check the the selected KOP.	e box next to the description that most closely describes the visual prominence of the Project from
(1 compatible to 3 not compatible)	Visibility Rating	Description
Land Use: 2	Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.
User Activity: 2 Total: 10	Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An objectlyhenomenon that is very small andfor faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing, it could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.
minimal to 3 severe)	Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.
User Activity: 2 Total: 10	Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly affract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.
3 (1 subordinate, 2 co-dominant, 3 dominant)	Vicibility level 5. Strongly attracts the visual	An object/phenomenon that is not large but contrasts with the surrounding landscape elements
Land Use: 2 User Activity: 2	attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	so strongly that it is a majer focus of visual attention, drawing viewer attention immediately and lending to hold that attention. It addition to strong constasts in form, line, color, and lecture bright light sources such as lighting and reflectors and moving objects associated with the study subject may continuous substantially for drawing viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements.
	Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in lies general direction. Strong contrasts in form, line, color, tedure, luminance, or motion may contribute to view dominance.	An objectlyhenomenon with strong visual contrasts that is so large that it occupies most of the visual facilit, and views of it cannot be avoided except by turning one's head more than 45° from a direct view of the object. The object/phenomenon is he mapin focus of visual altention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, color, and tecture, tripful fight sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seaszape elements.
e compatibility.		
er resources is sever and and dominant. However, the spread and breadth of the -dominant feature rather than dominant.	9. Comments: the quantity of turbines, and the spread of the	he array is likely to strongly attract viewer atlention especially when they are all in motion.
	Date: 02-18-2021 Date: 02-18-	Date: 02-18-2021 Date: 02-18-2021 Date: 02-18-2021 Proposed Conditions 8. Visibility Threshold Level - Check the the selected KOP. Visibility Rating Visibility

Visual Impact Assessment		Visual Impact Assessment	Personnel: Steve Breitzka
'	. Stove Proitake		KOP: <u><i>OC04</i></u>
	onnel: Steve Breitzka	Principles of composition, continued:	Date: February 19, 2021
Landscape Similarity Zone: Oceanfront Commercial Key Observation Point Name/No	ımber: <u>OC04</u>	3. Visual Clutter	
Key Observation Point (KOP) Familiarization		Numerous unrelated built elements occurring within a view can create visu adverse effect on scenic quality.	
Landscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined to the control of the KOP are outlined to the control of the con	ed below.	Does this view contain elements that contribute to visual clutter?	J Yes ☑ No
The effect of the proposed Project on these factors should be incorporated into the scoring and comments (proposed conditions). (This form is intended to record initial observations and should be completed quick		If yes, how does the visual clutter affect the view? 4. Movement	
General elements of formal visual analysis to be considered include:		Motion of existing and proposed elements in a view can attract viewer atte	ention.
Landscape/Seascape Composition: The arrangement of objects and voids in the landscape the composition.	at can be categorized by	Does this view contain elements in motion that are likely to attract view	wer attention? Yes No
their spatial arrangement. Basic landscape components include vegetation, landform, water, and especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnera		(If the answer is yes, Note these elements in rating form comments)	
 panoramic, canopied, or ephemeral landscapes. Form, Line, Color, and Texture: These are the four major compositional elements that define the 	a paragivad visual abaragtar	Factors affecting visual impact:	
of a landscape/seascape, as well as a project. Form refers to the shape of an object that appear	unified, often defined by	5. Duration of View	
edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving ab or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture		Some views are seen as quick glimpses while driving along a roadway or of time. Longer duration views of a project, especially from significant aes	
the visual surface characteristics of an object. The extent to which form, line, color, and texture o contrast with these same elements in the existing landscape/seascape is a primary determinant		The duration of this view is: Short Term/Fleeting Long-term	
 Spatial Dominance: The degree to which an object or landscape/seascape element occupies s and thus dominates seascape composition from a specific viewpoint. 	pace in a landscape/seascape	The frequency of this view is: Repeated Occasional	
 Project Scale: The apparent size of a proposed project in relation to its surroundings can define within the existing seascape. Perception of project scale is likely to vary depending on the distan other contextual factors. 		6. Atmospheric Conditions Clouds, precipitation, haze, and other ambient weather-related conditions can greatly impact the visibility and contrast of project components with te line, color, texture, and scale.	
Principles of composition to be considered include:		Conditions in this view can be described as: ☐ Clear ☐ Partly C	loudy 🗖 Overcast 🗹 Hazy
1. Focal Point		Conditions that may increase/decrease visibility could be described a	as: Thin and hazy cloud cover throughout most of the sky.
Certain natural or man-made landscape/seascape features stand out and are particularly notice		7. Lighting Direction	
physical characterislics. Focal points often contrast with their surroundings in color, form, scale, tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural feat lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with in the landscape/seascape.	ires, such as a distinctive	Backlightling refers to a viewing situation in which sunlight is coming towa Front lightling refers to a situation where the light source is coming from b viewed. Side lightling refers to a viewing situation in which sunlight is com elements in a scene. Lightling direction can have a significant effect on the	pehind the observer and falling directly upon the area being ning from overhead or the side of the observer to a feature or
Does this view contain a focal point? Yes No			
If yes, briefly identify/describe: The Simulated Photograph Extent does not although the Wonderland Pie	to the left does.	The relevant lighting condition can be described as: backlit backlit	frontlit 🗹 side-lit
2. Order			
Natural landscapes/seascapes have an underlying order determined by natural processes. Cull by displaying traditional or logical patterns of land use/development. Elements in the landscape this natural order may detract from scenic quality. When a new project is introduced to the lands are maintained through the repetition of the forms, lines, colors, and textures existing in the sur- environment.	that are inconsistent with cape, intactness and order	 Scenic or Recreational Value Designation as a seemic or recreational resource is an indication that ther resource. The characteristics of the resource that contribute to its scenic-visual impact on that resource. 	
Does this view contain a natural order? Yes No If yes, how does the natural order affect the view?		Would viewers consider this location a valued scenic or recreational reso	urce? 🗹 Yes 🗆 No
			e beach with multiple access points adjacent to the boardwalk and fonderland Pier, including a tall Ferris Wheel.

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ATLANTIC SHORES offshore wind

ATLANTIC SHORES offshore wind

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Visual Impact Assessment	Personnel: Steve Breitz	rka	Visual Impact Assessment	Personnel: Steve Breitzka	a
	KOP: <i>OC04</i>		•	KOP: <u><i>OC04</i></u>	
Existing Conditions	Date: February 19	<u>, 2021</u>	Proposed Conditions	Date: February 19, 2	2021
1. In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1)	liability to 9 distinct)		With the proposed project in place, rate the aesthetic quality/sensitivity of each re	esource on a score of 1 to 9 (1 liability to 9 di	stinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating be a whole number score.	should		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Score
		Score		Water Resources:	4
	Water Resources:	9		Landform:	5
	Landform:	9		Vegetation:	4.5
	Vegetation:	4.5		Land Use:	5
	Land Use:	9		User Activity:	5
	User Activity:	9			
Existing Co	onditions #1 Total:	40.5	Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct)		
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high density)			Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	_
Special Condition A. Does this zone contain any scenic, cultural, or h	nistoric landmarks?	3			3
Special Condition B. Are there other aesthetic elements that ad	ld to this resource?	0		Total:	26.5
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/pollution	on)				20.0
Special Condition C. Is this zone free from pol	llution and/or litter?	1	3. Comments:		
Existing Conditions #2 Total (Sur	m 2A through 2C)	4	There is no apparent limit to the water until the proposed turbines provide an edge protruding to although only the turbine blades and a limited portion of the towers are visible. Although the tu- like the rest of the view.		
Existing Conditions Grand Total (Sum #1 T 3. Comments:	Fotal and #2 Total)	44.5			
Well-traveled beach full of footprints and activity, adjacent to the boardwalk and the historic amusement park. I constant motion and a white surf spray in the air. The view has a washed out color palette with beige sand, wh sky above.					
ATLANTIC SHORES offshore wind		3 of 6	ATLANTIC SHORES offshore wind		4 of (
		1			
Visual Impact Assessment	Personnel: Steve Breitz	rka	Visual Impact Assessment	Personnel: Steve Breitzka	a

Visual Impact Assessment	Personnel: <u>Steve Breitzka</u> KOP: OC04	Visual Impact Assessr	nent Personnel: <u>Steve Breitzka</u> KOP: OCO4
Proposed Conditions - Compatibility and Contrast Ra Note: If an element is not present in the view rating should be a whole number score.	Date: February 19, 2021 Date: February 19, 2021 Proposed Conditions 8. Visibility Threshold Level - Check the box next to the description that most closely describes the selected KOP.		Date: February 19, 2021 box next to the description that most closely describes the visual prominence of the Project from
Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 2).	to 3 not compatible)	Visibility Rating	Description
Water Resources: 2	Land Use: 2	Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility, It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it dosely for an extended period.
Landform: 2 Vegetation: 0	User Activity: 2 Total: 8	Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An objectlyhenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.
5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 se		Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.
Vegetation:	Land Use: 2 User Activity: 2 Total: 6	Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.
Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinal Water Resources: Landform: Vegetation:	Land Use: 2 User Activity: 2 Total: 6	Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and lending in hold that attention. In addition is tornig contrasts in form, line, color, and tenture, bright light sources such as lighting and reflections! and moving objects associated with the study subject may contribute substantially or drawing viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements.
7. Comments: The turbines do not command attention in this view but they are visible and their spacing mak well, this masks their height and depth.		Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contracts in form, line, color, texture, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by furning one's head more than 45° from a direct view of the object. The object/phenomenon is he major focus of visual attention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, color, and tearture, tright light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.
		9. Comments:	

The turbines cannot be missed as a component in this view though the constant wave motion will also detract from the rotating blades in the background.

Visual Impact Assessment	Visual Impact Assessment Personnel: Jocelyn Gavitt	
Date: 2/25/21 Personnel: Jocelyn Gavitt	KOP: SBB01 Ship Bottom B	
	Principles of composition, continued: Date: 2/25/21	
Landscape Similarity Zone: Oceanfront residential Key Observation Point Name/Number: SBB01 Ship Bottom B	3. Visual Clutter	
Key Observation Point (KOP) Familiarization	Numerous unrelated built elements occurring within a view can create visual clutter (disrupting the natural order), which generally has an adverse effect on scenic quality.	
Landscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.	Does this view contain elements that contribute to visual clutter? Yes No	
The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form (proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes)	If yes, how does the visual clutter affect the view? There are a few elements in the foreground that capture some attention. 4. Movement	
General elements of formal visual analysis to be considered include:	Motion of existing and proposed elements in a view can attract viewer attention.	
Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by	Does this view contain elements in motion that are likely to attract viewer attention? Yes No	
their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions, especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or ephemeral landscapes.	(If the answer is yes, Note these elements in rating form comments)	
Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character	Factors affecting visual impact:	
of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by	5. Duration of View	
edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to	Some views are seen as quick glimpses while driving along a roadway or hiking a trail, while others are seen for a more prolonged period of time. Longer duration views of a project, especially from significant aesthetic resources, have the greatest potential for visual impact.	
the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.	The duration of this view is: Short Term/Fleeting Long-term	
 Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint. 	The frequency of this view is: ☑ Repeated ☐ Occasional	
 Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors. 	6. Atmospheric Conditions Clouds, precipitation, haze, and other ambient weather-related conditions can affect the visibility of an object or objects. These conditions can greatly impact the visibility and contrast of project components with landscape/seascape elements and the design elements of form, line, color, texture, and scale.	
Principles of composition to be considered include:	Conditions in this view can be described as: ☑ Clear ☐ Partly Cloudy ☐ Overcast ☐ Hazy	
1. Focal Point	Conditions that may increase/decrease visibility could be described as; More moisture in the atmosphere would likely decrease	
Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape. Does this view contain a focal point? \(\sumeting \text{ Yes} \) No	7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming toward the observer from behind a feature or elements in a scene. Front lighting refers to a situation where the light source is coming from behind the observer and falling directly upon the area being viewed. Side lighting refers to a viewing situation in which sunlight is coming from overhead or the side of the observer to a feature or elements in a scene, Lighting direction can have a significant effect on the visibility and contrast of landscape and project elements.	
If yes, briefly identify/describe:	The relevant fighting condition can be described as: ☐ backlit ☐ frontlit ☑ side-lit	
2. Order	The televant legitary container can be described as.	
Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.	8. Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that there is broad public consensus on the value of that particular resource. The characteristics of the resource that contribute to its scenic or recreational value provide guidance in evaluating a project's visual impact on that resource.	
Does this view contain a natural order? ☑ Yes ☐ No If yes, how does the natural order affect the view?	Would viewers consider this location a valued scenic or recreational resource? 🗹 Yes 🔲 No	
There is a layering of dune, beach, ocean and open sky.	How would the site be used for scenic or recreational enjoyment? This is a pristine beach front location.	
ATLANTIC SHORES 1 of 6	ATLANTIC SHORES 2	

Visual Impact Assessment	Personnel: Jocelyn Gavi	tt
•	KOP: SBB01 Ship I	Bottom B
Existing Conditions	Date: 2/25/21	
I. In the existing view rate the aesthetic quality/sensitivity of each resource on a score of	1 to 9 (1 liability to 9 distinct)	
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwi be a whole number score.	ise, rating should	
		Score
	Water Resources:	8
	Landform:	7
	Vegetation:	6
	Land Use:	7
	User Activity:	7
Exis	sting Conditions #1 Total:	35
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high	density)	
Special Condition A. Does this zone contain any scenic, cultu-	ural, or historic landmarks?	2
Special Condition B. Are there other aesthetic elements	that add to this resource?	2
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litt	er/pollution)	
Special Condition C. Is this zone free	from pollution and/or litter?	2
Existing Conditions #2 To	otal (Sum 2A through 2C)	6
	um #1 Total and #2 Total)	41

npact Assessment Personnel: Jocely Kop: SBB0	n Gavitt 1 Ship Bottom B
onditions Date: <u>2/25/2</u>	1
ed project in place, rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1 liabil	ity to 9 distinct)
is not present in the view the score should be 4.5 of 9.0 (no impact), ould be a whole number score.	Scor
Water Resource	s: 3
Landfor	m: 5
Vegetatio	n: 4
Land Us	e: 4
User Activit	y: 4
special conditions on a score of 0 to 9 (0 liability to 9 distinct) lions score is taken directly from Existing Conditions #2 Total and can with based upon the Proposed Conditions view. Special Condition	s: 4
Tota	d: 24
e field creates a distant focus along the horizon. The quantity and placement of the turbines creates an industrial alter the character of the landscape.	feel to the view. The
	feel to t



Personnel: Jocelyn Gavitt Visual Impact Assessment KOP: SBB01 Ship Bottom Ba Date: 2/25/21 **Proposed Conditions - Compatibility and Contrast Rating** Note: If an element is not present in the view the score should be a 0 (no impact), otherwise. rating should be a whole number score. 4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible) Land Use: Water Resources: 3 2 Landform: 2 User Activity: 3 Vegetation: Total: 12 5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) Water Resources: 3 Land Use: 2 Landform 2 User Activity: 2 Vegetation: 2 Total: 11 6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominate) Water Resources Land Use: 2 User Activity: Landform 2 Vegetation: Total: 2 10 7. Comments: These turbines can be seen across the horizon and will be noticed by viewers as the only built features in this view. Though at a great distance, they become

ATLANTIC SHORES

Visual Impact Assessment

Personnel: Jocelyn Gavitt

KOP: SBB01 Ship Bottom B

Date: 2/25/21

Proposed Conditions

8. Visibility Threshold Level - Check the box next to the description that most closely describes the visual prominence of the Project from the selected KOP

Visibility Rating	Description	
Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscapel seascape elements.	
Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An objectiphenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements as strongly that it is a major focus of visual elementor, drawing viewer attention timediately and tending to locid had attention. In addition is strong contrasts in form, line, color, and texture, bright light sources such a lighting and reflections! and moving objects associated with the study subject may contribute substantially of drawing viewer attention. The visual promisence of the study subject interferes noticeably with views of nearby landscape/seescape elements.	√
Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, cotor, texture, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by turning one's head more than 45° from a direct view of the object. The object/phenomenon is the major locus of visual attention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, cotor, and texture, bright light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.	

9. Comments:

The large quantity of turbines renders this a very noticeable change in the landscape

ATLANTIC SHORES

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visuai impact Assessment	
Date: 24 February 2021	Personnel: KAC
Landscape Similarity Zone: Oceanfront Residential	Key Observation Point Name/Number: SBB01 Ship Bottom
Key Observation Point (KOP) Familiarization	
reg observation form (NOI) I annualization	
Landscape/seascape, viewer, and related factors to be considered du	ring evaluation of the KOP are outlined below.

The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form (proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes)

General elements of formal visual analysis to be considered include:

- Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or ephemeral landscapes.
- · Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character From, time, color, and returner insect a first ordinary compositional elements that ceiting unless that an advantage of a landscape/seascape, as well as a project. From refers to the shape of an object that appears unified, often defined by edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.
- Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint.
- Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale
 within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and

Principles of composition to be considered include:

1. Focal Point

Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape.

Does this view contain a focal point? $\ensuremath{\square}$ Yes $\ensuremath{\square}$ No

If yes, briefly identify/describe: Horizon line

2. Order

Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.

Does this view contain a natural order? Yes No If yes, how does the natural order affect the view?

environment with the split-rail fencing and dune grass heavily quiding the viewer's focus until the open expanse of beach is reached.

KOP: SBB01 Ship Bottom
Date: 24 Fabruary 2021

Dorsonnol: KAC

Principles of composition, continued: 3. Visual Clutter

Numerous unrelated built elements occurring within a view can create visual clutter (disrupting the natural order), which generally has a
adverse effect on scenic quality.

If yes, how does the visual clutter affect the view? Litter receptacles, fencing, and signage

4. Movement

Motion of existing and proposed elements in a view can attract viewer attention

(If the answer is yes, Note these elements in rating form comments)

Factors affecting visual impact:

5. Duration of View

Some views are seen as quick glimpses while driving along a roadway or hilking a trail, while others are seen for a more protonged period of time. Longer duration views of a project, especially from significant aesthetic resources, have the greatest potential for visual impact.

The duration of this view is: Short Term/Fleeting Long-term The frequency of this view is:

Repeated
Occasional

6. Atmospheric Conditions

Clouds, precipitation, haze, and other ambient weather-related conditions can affect the visibility of an object or objects. These conditions can greatly impact the visibility and contrast of project components with landscape/seascape elements and the design elements of form,

Conditions that may increase/decrease visibility could be described as: Atmospheric haze may obstruct the slender appearance of the

7. Lighting Direction

Assembly to the second of the elements in a scene. Lighting direction can have a significant effect on the visibility and contrast of landscape and project elements.

he relevant lighting condition can be described as:	Ш	backlit	Ш	frontlit	✓	side-lit	

8. Scenic or Recreational Value

ATLANTIC SHORES

Designation as a scenic or recreational resource is an indication that there is broad public consensus on the value of that particular resource. The characteristics of the resource that contribute to its scenic or recreational value provide guidance in evaluating a project's visual impact on that resource.

Would viewers consider this location a valued scenic or recreational resource?

Yes
No

How would the site be used for scenic or recreational enjoyment? Ship Bottom Borough Municipal Beach

Visual Impact Assessment Personnel: KAC			Visual Impact Assessment		Personnel: KAC	
KOP: <u>SBB01 SI</u>	nip Bottom		μ		KOP: SBB01 Ship	Bottom
Existing Conditions Date: 24 Februa	nry 2021		Proposed Conditions		Date: 24 February 2	2021
In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1 liability to 9 distinct)			With the proposed project in place, rate the aesthetic quality/sensitivity	of each resource on	a score of 1 to 9 (1 liability to 9 d	listinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.			Note: If an element is not present in the view the score should be 4.5 of 9.0 (no otherwise, rating should be a whole number score.		. ,	Score
	Score				Water Resources:	6
Water Resources:	7				Landform:	7
Landform:	7					
Landoni.	7				Vegetation:	7
Vegetation:	7				Land Use:	7
Land Use:	7				User Activity:	6
User Activity:	7					
Existing Conditions #1 Total:	35		2. Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 d	listinct)		
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high density)			Note: Special Conditions score is taken directly from Existing Conditions #2 Tota be adjusted up or down based upon the Proposed Conditions view.	al and can	Special Conditions:	
Special Condition A. Does this zone contain any scenic, cultural, or historic landmarks?	1				oposiai continuono.	3
Special Condition B. Are there other aesthetic elements that add to this resource?	1				Total:	
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/pollution)					TOTAL.	36
Special Condition C. Is this zone free from pollution and/or litter?	1		3. Comments:			
Special Condition C. Is this zone free from political and/or litter:			With the Project in place, the view to the horizon is altered by the mass of wind turb	ines that extends to eith	ner side of the sight line along the ac	cess way. The
Existing Conditions #2 Total (Sum 2A through 2C)	3		turbines viewing distance, light color, and slender profile mitigates some of the pote stacked on each other and the dark color against the sky intensifies. The wind farm	ential visual impacts, how	wever, the eye is drawn to where the	turbines are
Existing Conditions Grand Total (Sum #1 Total and #2 Total) 3. Comments:	38		therefore, the impacts to visual quality are likely to be experienced more intensely b	y residents and visitors	to the beach.	
Cultural Historic: Ship Bottom Borough Municipal Beach						
Aesthelic: Wide open beach.						
Litter: Beach visitor litter.						
Summary of View: The existing view is taken at the narrow elevated pedestrian entry that opens onto the greater beach expanse. Each si bordered by a split-rail wood fence and vegetated dunes that accentuate the elevation change between the viewpoint and the beach itself, objects do the view near the walkoway and fencing, however, the midgound beach is an open, light colored sand expanse meets the deep crashing waves with strong horizontal strokes left and right. The light blue color of the sky holds the viewer's attention to the horizon.	Various man-made					
ATLANTIC SHORES offshore wind	3 of 6		ATLANTIC SHORES offshore wind			4 of (
		_				

VISUAL IIIIPACI ASSESSITICIT	onel: KAC OP: SBB01 Ship Bottom	Visual Impact Assessr	nent	Personnel: <u>KAC</u> KOP: <u>SBB01 Ship Bottom</u>
Proposed Conditions - Compatibility and Contrast Rating Note: If an element is not present in the view the score should be a 0 rating should be a whole number score.	vate: 24 February 2021 O (no impact), otherwise,	Proposed Conditions 8. Visibility Threshold Level - Check the the selected KOP.	e box next to the description that most closely describes t	Date: 24 February 2021 he visual prominence of the Project from
4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible)		Visibility Rating Visibility level 1. Visible only after extended,	Description An object/phenomenon that is near the extreme limit of visibility. It of	
Water Resources: 1.5 Land Use:	1	close viewing; otherwise invisible.	who was unaware of it in advance and looking for it. Even under the can be seen only after looking at it closely for an extended period.	ose circumstances, the object
Landform: 1 User Activity: Vegetation: 1 Total:	6	Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the horizon or looking more closely at an area, can be detected without sometimes be noticed by casual observers; however, most people some active looking.	extended viewing. It could
Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) Water Resources: 1.5 Land Use:	1	Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief lool most casual observers, but without sufficient size or contrast to conseascape elements.	
Landform: 1 User Activity: Vegetation: 1 Total:	1.5	Visibility level 4. Plainty visible, so could not be missed by casual observers, but does not strongly attack visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or co- landscape/seascape elements, but with insufficient visual contrast ta attention and insufficient size to occupy most of an observer's visual	to strongly attract visual
6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 don Water Resources: Land Use: Landform: 1 User Activity: Vegetation: 1 Total:	1 2 6.5	Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surre so strongly that it is a major focus of visual attention, drawing view tending lo hold that attention. In addition to strong contrasts in form bright light sources such as lighting and reflections! and moving ob subject may contribute substantially to drawing viewer attention. The study subject interferes noticeably with views of nearby landscape?	er attention immediately and , line, color, and texture, iects associated with the study ev isual prominence of the
7. Comments: Compatibility: The wind farm introduces a highly commercialize/industrialized use to this residential community and mur		Visibility level 6. Dominates the view because the study suject fils most of the visual field for views in its general direction. Strong contrasts in form, line, color, lecture, luminance, or molton may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large visual field, and views of it cannot be avoided except by turning or a direct view of the object. The object/phenomenon is the major for large apparent size is a major factor in its view dominance. In additine, color, and testure, bright fight sources and moving objects as may contribute substantiality to drawing viewer attention. The visual subject detracts noticeably from views of other landscape/seascapt.	o's head more than 45° from us of visual attention, and its ion to size, contrasts in form, pociated with the study subject prominence of the study
Scale: The turbines sit lightly on the sky at 19.35-miles to nearest visible turbine, therefore, they do not dominate the vie	w.			
Spatial Dominance: Despite the mass of the wind far, it is not visually dominant in the view due to the stender profile an	d light color against the sky.	9. Comments: N/A		

Visual Impact Assessment		Visual Impact Assessment	Personnel: KV
Date: 02-23-2021			KOP: SBB01 Ship Bottom Bo
	Personnel: KV	Principles of composition, continued:	Date: 02-23-2021
Landscape Similarity Zone: Oceanfront Res	Key Observation Point Name/Number: <u>SBB01 Ship Bottom Bc</u>	Visual Clutter Numerous unrelated built elements occurring within a view can create visual.	und plutter (digranting the natural order), which generally has an
Key Observation Point (KOP) Familiaria	zation	adverse effect on scenic quality.	
Landscape/seascape, viewer, and related factors to be con-	sidered during evaluation of the KOP are outlined below.	Does this view contain elements that contribute to visual clutter?	I Yes □ No
	pe incorporated into the scoring and comments on the VIA assessment form of observations and should be completed quickly, taking no more than 5 minutes)	If yes, how does the visual clutter affect the view? the more industric draws attention at 4. Movement	I ridged lines and bright color of the trash can clutters the view and way from the more natural elements in the view.
General elements of formal visual analysis to be co	insidered include:	Motion of existing and proposed elements in a view can attract viewer atte	ention.
	ement of objects and voids in the landscape that can be categorized by	Does this view contain elements in motion that are likely to attract vie	wer attention? Ves D No
especially those that are distinctly focal, enclosed,	nents include vegetation, landform, water, and sky. Some compositions, detailed, or feature-oriented, are more vulnerable to modifications than	(If the answer is yes, Note these elements in rating form comments)	
panoramic, canopied, or ephemeral landscapes.	West day to the day of the second sec	Factors affecting visual impact:	
	ur major compositional elements that define the perceived visual character m refers to the shape of an object that appears unified, often defined by	5. Duration of View	
or texture, usually evident as the edges of shapes	o the path the eye follows when perceiving abrupt changes in form, color, or masses in the landscape/seascape. Texture, in this context, refers to	Some views are seen as quick glimpses while driving along a roadway or of time. Longer duration views of a project, especially from significant ae:	
the visual surface characteristics of an object. The contrast with these same elements in the existing I	extent to which form, line, color, and texture of a project are similar to or andscape/seascape is a primary determinant of visual impact.	The duration of this view is: Short Term/Fleeting Long-tern	
Spatial Dominance: The degree to which an objet and thus dominates seascape composition from a	ct or landscape/seascape element occupies space in a landscape/seascape specific viewpoint.	The frequency of this view is: ☑ Repeated ☐ Occasional	
	roject in relation to its surroundings can define the compatibility of its scale scale is likely to vary depending on the distance from which it is seen and	Chuck precipitation, haze, and other ambient weather-related condition can greatly impact the visibility and contrast of project components with I line, color, texture, and scale.	
Principles of composition to be considered inc	lude:	Conditions in this view can be described as: ☑ Clear ☐ Partly C	loudy Overcast Hazy
1. Focal Point		Conditions that may increase/decrease visibility could be described	as: hazy or overcast conditions could likely decrease visibility.
physical characteristics. Focal points often contra- tend to draw a viewer's attention. Examples include	e features stand out and are particularly noticeable as a result of their st with their surroundings in color, form, scale, or texture, and therefore de prominent trees, mountains, or cultural features, such as a distinctive not be sited so as to obscure or compete with important existing focal points	7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming tow Front lighting refers to a situation where the light source is coming from the viewed. Side lighting refers to a viewing situation in which sunlight is con elements in a scene. Lighting direction can have a significant effect on the	ehind the observer and falling directly upon the area being ning from overhead or the side of the observer to a feature or
Does this view contain a focal point?			
	sealed on the beach at a direct line from the access point draw viewer attention.	The relevant lighting condition can be described as: backlit	frontlit 🗸 side-lit
by displaying traditional or logical patterns of land this natural order may detract from scenic quality.	g order determined by natural processes. Cultural landscapes exhibit order use/development. Elements in the landscape that are inconsistent with When a new project is introduced to the landscape, intactness and order , lines, colors, and textures existing in the surrounding built or natural	Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that the resource. The characteristics of the resource that contribute to its scenic visual impact on that resource.	re is broad public consensus on the value of that particular or recreational value provide guidance in evaluating a project's
Does this view contain a natural order? If yes, how does the natural order affect the v		Would viewers consider this location a valued scenic or recreational resc	nurce? 🗹 Yes 🗆 No
colors, lines, and texture from the dune entrance, short view.	elline, water and sky serve to bring the viewer into the frame and circulate the eye within the		ense dun scape and open shoreline allow for beach goes enjoying ety of activities including sunbathing, swimming and fishing
ATLANTIC SHORES	1 of 6	ATLANTIC SHORES offshore wind	2 of 6

Visual Impact Assessment	Personnel: KV	
	KOP: SBB01 Ship E	Bottom Bc
Existing Conditions	Date: 02-23-2021	
In the existing view rate the aesthetic quality/sensitivity of each resource on a:	score of 1 to 9 (1 liability to 9 distinct)	
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact) be a whole number score.), otherwise, rating should	
		Score
	Water Resources:	6
	Landform:	6
	Vegetation:	7
	Land Use:	6
	User Activity:	6
	Existing Conditions #1 Total:	31
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being	ng high density)	
Special Condition A. Does this zone contain any sceni	c, cultural, or historic landmarks?	1
Special Condition B. Are there other aesthetic ele	ements that add to this resource?	1
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 fr $$	ee of litter/pollution)	
Special Condition C. Is this zon	e free from pollution and/or litter?	2
Existing Conditions	s #2 Total (Sum 2A through 2C)	4
Existing Conditions Grand To	otal (Sum #1 Total and #2 Total)	35
movement attracting viewer attention: waves, beach goers, and dune grasses on a breezy of	day.	
In this view the viewer is positioned at a shoreline beach access point. The viewer is situate beach. The near-foreground is situated on a pathway between split rail fences cordoning of to the sandy beach a rough texture in the sand indicates frequent foot traffic. Trash cars an ponding is centrally located. Multiple groups of beach goers are seen to the right along the The sandy shoreline is met by active ocean waves with white rolling tops. The distant view aesthetically pleasing and of high visual quality, yet hey are comnon to this region and the vegetation. While other similar shoreline locations may find a very minimal protective dunes vegetation. This location has no landmarks beyond that of the municipal beach location. The within the view but the presence of trash cars indicates it is common.	I vegetative dunes on either side of the view. Followin e seen to the left. A low spot on the beach indicated ledge of another small tide pond created by a low spot is expansive open ocean. This view, and the resource refore are reviewed in the high average range, one e crape, this location demonstrates a wide expanse with	by slight water to on the beach. es within it, are exception is h a variety of

Visual Impact Assessment	Personnel: KV	
Tioual impact isosooment	KOP: SBB01 Ship	Bottom B
Proposed Conditions	Date: 02-23-2021	
1. With the proposed project in place, rate the aesthetic quality/sensitivity of each resource	e on a score of 1 to 9 (1 liability to 9	distinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Sco
	Water Resources:	4
	Landform:	5
	Vegetation:	7
	Land Use:	5
	User Activity:	5
 Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct) Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can be adjusted up or down based upon the Proposed Conditions view. 	Special Conditions:	4
	Total:	30
3. Comments:		
Turbines within this scene sit distantly on the horizon. Despite this distance, the front-lift turbines sit ta the edge of the array causes individual turbines to be more difficult to distinguish. However, the stron appearance of a wider and more visible silhouette or connected chain of silhouettes. The extent of turnous expansive ocean view by creating a series of focal points. This effectively limits the far reaching foresbortened when sitting tow between the vertical turbine structures and the fall sandy duries toppe Vegetation is minimally affected by the turbines as its purpose is primarily for dune protection and bir residential and recreational in nature. While those uses are likely to continue as a primary focus, a de-	g stacking of turbines more central in the rbines in this view captures viewer attentic distant views. The flat shoreline landform d with residential development just beyon d habitat. Land Use and User Activity wer	array causes on and limits to becomes slig and the framed e previously



Personnel: KV Personnel: KV Visual Impact Assessment Visual Impact Assessment KOP: SBB01 Ship Bottom Bo KOP: SBB01 Ship Bottom Bo Date: 02-23-2021 Proposed Conditions - Compatibility and Contrast Rating Note: If an element is not present in the view the score should be a 0 (no impact), otherwise. rating should be a whole number score 4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible) Water Resources: Land Use: 3 2 Landform: 3 User Activity: 2 Vegetation: Total: 3 13 5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) $\,$ Water Resources: Land Use: 2 Landform: 2 User Activity: 2 2 Vegetation: Total: 10 6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominant) Water Resources Land Use: 2 Landform: User Activity: 3 Vegetation: Total: 12 7. Comments: The proposed turbine array is not compatible with the natural elements within this view. However, it is somewhat compatible with Land Use and User Activity The size of turbines at this distance is consistent with a moderate scale contrast Spatial dominance of the WTG is dominant on the horizon with the strong visual draw of the central stacking. This element may draw user attention away from other elements in the view. However, WTGs are more consistently co-dominant with landform, vegetation, and land Use

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V

Visual Impact Assessment Date: March 06, 2021 Personnel: Steve Breitzka Landscape Similarity Zone: Oceanfront Residential Key Observation Point Name/Number: SBB01 Key Observation Point (KOP) Familiarization Landscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below. The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form (proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes) General elements of formal visual analysis to be considered include: Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or ephemeral landscapes. · Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character From, time, colon, and in exture: messe are the rour high compositional elements risk cellent cellent englished. And calculate of a landscape/seascape, as well as a project. From refers to the shape of an object that appears unified, often defined by edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact. Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint. Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale
within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and Principles of composition to be considered include: 1. Focal Point Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape. Does this view contain a focal point? \square Yes ${\color{red} \,}{\color{blue} \,}{\color{blue}$ If yes, briefly identify/describe: 2. Order Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.

Drangaged Canditions	Date: <u>02-23-2021</u>	
Proposed Conditions 8. Visibility Threshold Level - Check the the selected KOP.	e box next to the description that most closely describes the visual prominence of the Project from	om
Visibility Rating	Description	
Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and boking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	\exists
Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers: however, most people would not notice it without some active looking.	
Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	\exists
Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An objectiphenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual alteriation, drawing viewer afterinton immediately and tending to hold that alteriation. In addition to strong contrasts in form, line, color, and feature, bright light sources such as lighting and reflections and moving objects associated with the study subject may contribute substantially of availing viewer largeristics. The visual promitence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	✓
Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture, furnisance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of Lamorb be avoided except by furning one is head more than 45° from a direct view of the object. The object/phenomenon is the raping focus of visual attention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, color, and learner, bright light cauces and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject defracts noticeably from views of other landscape/seascape elements.	
9. Comments:		
The breadth, height, and stacking of the tur	bine array at this location contrasts with the surrounding landscape strongly and becomes a major visual focu	US.
ATLANTIC SHORES offshore wind	PRINT DOCUMENT TO PDF	6 of

isual Impact Assessment	Personnel: Steve Breitzka
	кор:_ <i>SBB01</i>
	Date: March 06, 2021 van create visual clutter (disrupting the natural order), which generally has an
adverse effect on scenic quality. Does this view contain elements that contribute to vis	ual clutter? Yes No
	There are multiple elements in this view: dune fencing, split-rail fence, signage, and
	peach elements but they do not qualify as clutter.
Does this view contain elements in motion that are lik	ely to attract viewer attention? Yes No
(If the answer is yes, Note these elements in rating fo	
Factors affecting visual impact:	
Duration of View Some views are seen as quick glimpses while driving alo	ng a roadway or hiking a trail, while others are seen for a more prolonged period n significant aesthetic resources, have the greatest potential for visual impact.
The duration of this view is: Short Term/Fleeting	☑ Long-term
The frequency of this view is: 🗹 Repeated 🗹 C	ccasional
	elated conditions can affect the visibility of an object or objects. These conditions apponents with landscape/seascape elements and the design elements of form,
Conditions in this view can be described as: 🗹 Cle	ar 🔲 Partly Cloudy 🗖 Overcast 🗖 Hazy
Conditions that may increase/decrease visibility coul	d be described as: The sky is clear of clouds, fading from white/pale blue at the horizon to a darker blue higher in the sky.
Front lighting refers to a situation where the light source i viewed. Side lighting refers to a viewing situation in which	It is coming toward the observer from behind a feature or elements in a scene, s coming from behind the observer and falling directly upon the area being sunlight is coming from overhead or the side of the observer to a feature or cant effect on the visibility and contrast of landscape and project elements.
The relevant lighting condition can be described as:	backlit frontlit side-lit
8. Scenic or Recreational Value	
	lication that there is broad public consensus on the value of that particular tle to its scenic or recreational value provide guidance in evaluating a project's
Would viewers consider this location a valued scenic or re	ecreational resource? 🗹 Yes 🔲 No
How would the site be used for scenic or recreational enj	One of the general public with great water access.
ATLANTIC SHORES offshore wind	2 of



Does this view contain a natural order? Yes No If yes, how does the natural order affect the vie Wide open ocean, sandy beach, to grass covered sand dunes

ATLANTIC SHORES

Visual Impact Assessment	Personnel: Steve Breitz	ka	Visual Impact Assessment	Personnel: Steve Breitzk	ka
	KOP: <u>SBB01</u>		'	KOP: <u>SBB01</u>	
Existing Conditions	Date: March 06, 20	021	Proposed Conditions	Date: March 06, 20.	121
In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 line.	to 9 (1 liability to 9 distinct)		With the proposed project in place, rate the aesthetic quality/sensitivity of each re-	source on a score of 1 to 9 /1 liability to 9 /	distinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, be a whole number score.			Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.	source of a score of 1 to 7 (1 habitity to 7 c	Score
		Score	Silicinist, fulling should be a militer number store.	Water Resources:	4
	Water Resources:	9		Landform:	3
	Landform:	9		Vegetation:	4
	Vegetation:	8		Land Use:	4
	Land Use:	9		User Activity:	4
	User Activity:	9			
Existin	ng Conditions #1 Total:	44	Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct)		
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high der	nsity)		Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	3
Special Condition A. Does this zone contain any scenic, cultura	II, or historic landmarks?	1			3
Special Condition B. Are there other aesthetic elements the	nat add to this resource?	2		Total:	22
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/	pollution)				
Special Condition C. Is this zone free fro	om pollution and/or litter?	2	3. Comments:		
Existing Conditions #2 Total	Il (Sum 2A through 2C)	5	The beach scene takes on an industrial tone with turbines lining the majority of the horizon in the although they are more visible when the spacing makes them stacked upon one another. As it at the horizon for scale, however, the turbines appear to tower above the ocean given the view	he rows grow tighter, the turbines appear darker.	
Existing Conditions Grand Total (Sun 3. Comments:	n #1 Total and #2 Total)	49	a no rough, no saud, noncret, no allines appear to the saud of the security of the	normal dates over the deliving of the bedding	
Wide open sandy beach with sloped sand walkway through the vegetated low grassland dune landscap general public. The water is a dark blue beige with rolling waves cresting at the shores. The sky is a rishorizon. The horizon is a perfect clean line defined by the water and the sky.					
ATLANTIC SHORES offshore wind		3 of 6	ATLANTIC SHORES offshore wind		4 of 6
Visual Impact Assessment	Personnel: Steve Breitz	ka	Visual Impact Assessment	Personnel: Steve Breitzk	ka
1	KOP: SBB01			KOP: <u>SBB01</u>	

Visual Impact Assessr	ment	Pers	onnel: Steve Breitzka	Visual Impact Assessr	ment Personnel: <u>Steve Breitzka</u>
Visual impact Assessi	mont		KOP: SBB01		KOP: <u>SBB01</u>
		ent in the view the score should be	Date: March 06, 2021 a 0 (no impact), otherwise,	Proposed Conditions 8. Visibility Threshold Level - Check the the selected KOP.	Date: <u>March 06, 2021</u> e box next to the description that most closely describes the visual prominence of the Project from
Rate the compatibility of the proposed project on	n a scale of 1 to 3 (1 o	compatible to 3 not compatible)		Visibility Rating	Description
Water Resources:	3	Land Use:	3	Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.
Landform: Vegetation:	3	User Activity: Total:	3 15	Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing, It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.
Rate scale contrast of the proposed project on a : Water Resources:	scale of 1 to 3 (1 mir	nimal to 3 severe)	3	Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.
Landform: Vegetation:	3	User Activity: Total:	3	Visibility level 4. Plainty visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.
Rate spatial dominance of the proposed project of Water Resources: Landform: Vegetation:	2 2 2	Land Use: User Activity: Total:	3 3	Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object/ghenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to strong contrasts in form, line, octor, and texture, bright light sources such as lighting and reflectional and moving objects associated with the study subject may continuite substantially of ordaving viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements.
7. Comments: The waves crashing at the shore will draw attention, as we existing view, the turbines capture focus as they extend e	ill the natural dunescap	se plantling in the foreground. Given		Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by furning one's head more than 45° from a direct view of the object. The object/phenomenon is the major focus of visual attention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, color, and result, ruipful fight sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.



The turbines have a strong presence and will be noticed immediately upon approaching the beach. However, there are other features like the waves and the grasses to draw attention.

Visual Impact Assessment Date: 2/17/21 Personnel: Jocelyn Gavitt S103 Temporal la late	Visual Impact Assessment Personnel: <u>Jocelyn Gavitt</u> KOP: <u>SIC02 Townsends In</u>
and the second Material Indeveloped B. It and the second B. It and the second S	Principles of composition, continued: Date: 2/17/21
Landscape Similarity Zone: Open Water/ Undeveloped Key Observation Point Name/Number: SIC02 Townsends Inle	3. Visual Clutter
Key Observation Point (KOP) Familiarization	Numerous unrelated built elements occurring within a view can create visual clutter (disrupting the natural order), which generally has an adverse effect on scenic quality.
Landscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.	Does this view contain elements that contribute to visual clutter?
The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes)	If yes, how does the visual clutter affect the view? 4. Movement
	4. Motion of existing and proposed elements in a view can attract viewer attention.
General elements of formal visual analysis to be considered include:	
 Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions, especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than 	Does this view contain elements in motion that are likely to attract viewer attention? ☑ Yes ☐ No (If the answer is yes, Note these elements in rating form comments)
panoramic, canopied, or ephemeral landscapes.	Factors affecting visual impact:
 Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by 	5. Duration of View
edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color,	Some views are seen as quick glimpses while driving along a roadway or hiking a trail, while others are seen for a more prolonged peric
or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or	of time. Longer duration views of a project, especially from significant aesthetic resources, have the greatest potential for visual impact.
contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.	The duration of this view is: ☑ Short Term/Fleeting ☐ Long-term
 Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint. 	The frequency of this view is: 🗹 Repeated 🗆 Occasional
Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale	6. Atmospheric Conditions
within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors.	Clouds, precipitation, haze, and other ambient weather-related conditions can affect the visibility of an object or objects. These condition can greatly impact the visibility and contrast of project components with landscape/seascape elements and the design elements of form line, color, texture, and scale.
Principles of composition to be considered include:	Conditions in this view can be described as: 🗹 Clear 🔲 Partly Cloudy 🔲 Overcast 🔲 Hazy
1. Focal Point	Conditions that may increase/decrease visibility could be described as; increased moisture in the air could impact visibility.
Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their	7. Lighting Direction
physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent frees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape.	Backlighting refers to a viewing situation in which sunlight is coming toward the observer from behind a feature or elements in a scene. Front lighting refers to a situation where the light source is coming from behind the observer and falling directly upon the area being viewed. Side lighting refers to a viewing situation in which sunlight is coming from overhead or the side of the observer to a feature or elements in a scene. Lighting direction can have a significant effect on the visibility and contrast of fandscape and project elements.
Does this view contain a focal point? ☐ Yes ☑ No	
If yes, briefly identify/describe:	The relevant lighting condition can be described as: backlit frontlit side-lit
2. Order	
Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.	8. Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that there is broad public consensus on the value of that particular resource. The characteristics of the resource that contribute to its scenic or recreational value provide guidance in evaluating a project's visual impact on that resource.
Does this view contain a natural order? ☑ Yes ☐ No If yes, how does the natural order affect the view?	Would viewers consider this location a valued scenic or recreational resource? Yes No
The foreground has elements of open beach with some vegetation, while the mid-ground is occupied by open water.	How would the site be used for scenic or recreational enjoyment? This view is from a bridge and will likely get much use
ATLANTIC SHORES 1 of 6	ATLANTIC SHORES offshore wind

The teregradia has committee of open sealer that come regration, think the time greater is decorated by open trace.		How would the site be used for scenic or recreational enjoyment? This	view is from a bridge and will likely get much use	
ATLANTIC SHORES offshore wind	1 of 6	ATLANTIC SHORES offshore wind		2 of 6
Visual Impact Assessment Personnel: Jocelyn G		Visual Impact Assessment	Personnel: <u>Jocelyn Gav</u> KOP: SIC02 Towns	
Existing Conditions 1. In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1 liability to 9 distinct) Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should		Proposed Conditions 1. With the proposed project in place, rate the aesthetic quality/sensitivity of Note: If an element is not present in the view the score should be 4.5 of 9.0 (no im.		
be a whole number score. Water Resources:	Score 8	otherwise, raling should be a whole number score.	Water Resources:	Score 2
Landform:	6		Vegetation:	4
Vegetation: Land Use:	7		Land Use:	3
User Activity:	7		User Activity:	3
Existing Conditions #1 Total: 2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high density) Special Condition A. Does this zone contain any scenic, cultural, or historic landmarks? Special Condition B. Are there other aesthetic elements that add to this resource?	2 2	Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 dist Note: Special Conditions score is taken directly from Existing Conditions #2 Total a be adjusted up or down based upon the Proposed Conditions view.		3
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/pollution) Special Condition C. Is this zone free from pollution and/or litter?	2	3. Comments:		18
Existing Conditions #2 Total (Sum 2A through 2C)	6	The proposed turbine field creates strong lines of turbines receding out into the ocean dominating the horizon line and creating a completely altered condition in the open wa these backlit conditions. There is a very strong impact in this view.		
Existing Conditions Grand Total (Sum #1 Total and #2 Total) 3. Comments: This is a relatively simple view with open sandy land in the foreground and open water in the mid-ground. The horizon line anchors this view waves, and likely use by people add an element of interest to the view.	w. The motion of the			

Personnel: Jocelyn Gavitt Visual Impact Assessment KOP: SIC02 Townsends Inlet Date: 2/17/21 **Proposed Conditions - Compatibility and Contrast Rating** Note: If an element is not present in the view the score should be a 0 (no impact), otherwise, rating should be a whole number score. 4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible) Land Use: Water Resources: 3 2 Landform: 2 User Activity: 2 Vegetation: Total: 10 5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) Water Resources: 3 Land Use: 3 Landform: 2 User Activity: 2 Vegetation: 1 Total: 11 6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominant) Water Resources: Land Use: 2 Landform: User Activity: 2 Vegetation: Total: 12 7. Comments: The backlit turbines occupy the horizon and become a focus in this view. The arrangement of the rows of turbines creates strong lines. They have a very

ATLANTIC SHORES

Date: 17 February 2021

Visual Impact Assessment

Personnel: Jocelyn Gavitt

KOP: SIC02 Townsends Inle

Date: 2/17/21

Proposed Conditions

8. Visibility Threshold Level - Check the box next to the description that most closely describes the visual prominence of the Project from the selected KOP

Visibility Rating	Description	
Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape! seascape elements.	
Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape-bearcage elements, but with insufficient visual contrast to strongly affract visual attention and insufficient size to occupy most of an observer's visual field.	
Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements as strongly that it is a major frous of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to strong contrasts in form, line, color, and lexture, bright light sources such last lighting and reflections! and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual promisence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	
Visibility level 6. Dominates the view because the study subject fills most of the vesual field for views in its general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance.	An object/phenomenon with storag visual contrasts that is so large that a cocupies most of the visual field, and views of it cannot be avoided except by turning one's head more than 45° from a direct view of the object. The object/phenomenon is the major focus of visual attention, and its an affect view of the object. The object/phenomenon is the major focus of visual attention, and its final contrast of the object of	✓

ATLANTIC SHORES

9. Comments:

Vi

PRINT DOCUMENT TO PDF

The turbines are highly visible and become a focus of this view. The backlit condition may be amplifying their visibility.

Visual Impact Assessment	
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Landscape Similarity Zone: Open Water | Undevel Bay

Key Observation Point (KOP) Familiarization

Personnel: KAC Key Observation Point Name/Number: SIC02 Townsend's Br

Landscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.

The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form (proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes)

General elements of formal visual analysis to be considered include:

- Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or ephemeral landscapes.
- Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Exture, in this contact, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.
- Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint.
- Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors.

Principles of composition to be considered include:

1. Focal Point

Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape.

Does this view contain a focal point? $\ensuremath{\mbox{\ensuremath{\square}}}$ Yes $\ensuremath{\mbox{\ensuremath{\square}}}$ No

If yes, briefly identify/describe: Edge of surf and sand, pink-tinged horizon line.

2. Order

Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land used/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.

Does this view contain a natural order? Yes No If yes, how does the natural order affect the view'

Inlet sand, ocean, horizon; sweeping landscape with the landform bending to the water before the view becoming strongly horizontal with the ocean a wedge between the sand and sky.

FLANTIC SHORES		
offshore wind		

sual Impact Assessment	Personnel:_KAC
and impact to cool in the	KOP: SICO2 Townsend's Br
Principles of composition, continued:	Date: 17 February 2021
 Visual Clutter Numerous unrelated built elements occurring within a view can create visual clutter (disrup adverse effect on scenic quality. 	ting the natural order), which generally has an
Does this view contain elements that contribute to visual clutter? Yes No	
If yes, how does the visual clutter affect the view? N/A	
Movement Motion of existing and proposed elements in a view can attract viewer attention.	
Does this view contain elements in motion that are likely to attract viewer attention?	☐ Yes ☑ No
(If the answer is yes, Note these elements in rating form comments)	
Factors affecting visual impact:	
ů i	
Duration of View Some views are seen as quick glimpses while driving along a roadway or hiking a trail, wh of time. Longer duration views of a project, especially from significant aesthetic resources	
The duration of this view is: $\ \square$ Short Term/Fleeting $\ \square$ Long-term	
The frequency of this view is: Repeated Occasional	
6. Atmospheric Conditions Clouds, precipitation, haze, and other ambient weather-related conditions can affect the vican greatly impact the visibility and contrast of project components with landscape/seasce line, color, texture, and scale.	
Conditions in this view can be described as: \square Clear \square Partly Cloudy \square Over	ast 🗹 Hazy
Conditions that may increase/decrease visibility could be described as: Clear horizon turbines.	conditions can increase the visibility of the
7. Lighting Direction	
Backlighting refers to a viewing situation in which sunlight is coming toward the observer I Front lighting refers to a situation where the light source is coming from behind the observ viewed. Side lighting refers to a viewing situation in which sunlight is coming from overhea elements in a scene. Lighting direction can have a significant effect on the visibility and co	rer and falling directly upon the area being ad or the side of the observer to a feature or
The relevant lighting condition can be described as: backlit frontlit side	e-lit
8. Scenic or Recreational Value	
Designation as a scenic or recreational resource is an indication that there is broad public resource. The characteristics of the resource that contribute to its scenic or recreational varieus impact on that resource.	
Would viewers consider this location a valued scenic or recreational resource? $\[\[\] \]$ Yes	□ No
How would the site be used for scenic or recreational enjoyment? Sea Isle City Beach Dun	ie, Townsend Inlet Bridge

Visual Impact Assessment Person	onnel: KAC	Visual Impact Assessment	Personnel: KAC
•	KOP: SICO2 Townsend's Br	visual impact /tssessment	KOP: SIC02 Townsend's Br
Existing Conditions	Date: 17 February 2021	Proposed Conditions	Date: <u>17 February 2021</u>
1. In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1 liability	y to 9 distinct)	With the proposed project in place, rate the aesthetic quality/sensitivity of each re-	source on a score of 1 to 9 (1 liability to 9 distinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.	1	Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.	Score
	Scor		Water Resources: 6
Wate	er Resources: 7		Landform: 6
	Landform: 7		Vegetation: 6
	Vegetation: 6		Land Use: 6
	Land Use: 6		User Activity: 6
	User Activity: 6	<u> </u>	
Existing Conditi	ons #1 Total: 32	Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct) Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can	
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high density)		note: Special Conditions Score is taken directly from Existing Conditions #2 Total and Can be adjusted up or down based upon the Proposed Conditions view.	Special Conditions: 3
Special Condition A. Does this zone contain any scenic, cultural, or historic	c landmarks?		
Special Condition B. Are there other aesthetic elements that add to t	his resource? 1		Total: 33
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/pollution)			
Special Condition C. Is this zone free from pollution	n and/or litter?	3. Comments:	
Existing Conditions #2 Total (Sum 2A	through 2C) 3	The installation of the wind farm at this viewing distance reduces the visual intrusion of the turbl open sand of the inlet, slip of ocean and expanse of horizon and sky do not compete with the tu with the turbines. The turbines are neally organized, patterned and appear to be at a similar his	urbine installation, but rather the seascape elements knit together
Existing Conditions Grand Total (Sum #1 Total 3. Comments:	and #2 Total) 35	slender profile of the turbines sits lightly against the morning sky. Therefore, these factors milti a new industrial element within the seascape. It is possible that some viewers could consider the or even a landmark for travel.	
Cultural Historic: Sea Isle City Beach Dune, Townsend Inlet Bridge			
Aesthetic: Elevated bridge view across the inlet to the ocean between residential zones.			
Litter: Road Litter.			
Summary of View. This view is the glimpse to the ocean and horizon that a road traveter would have while moving be each side of the Cape May County Road. The view would be fleeling for the driver and more long standing for the par unless the drawtridge is open for boat traffic. While a visual relief from the built landscape on either side of it, the view seascape that is made more memorable through the act of passing over the drawbridge itself.	ssenger as the vehicle crosses the brid		
ATLANTIC SHORES offshore wind	3	of 6 ATLANTIC SHORES of shore wind	4 of 0
Visual illipact Assessificit	onnel: KAC	Visual Impact Assessment	Personnel: KAC
	KOP: SIC02 Townsend's Br		KOP: SICO2 Townsend's Br
Proposed Conditions - Compatibility and Contrast Rating	Date: <u>17 February 2021</u>	Proposed Conditions	Date: <u>17 February 2021</u>
Note: If an element is not present in the view the score should be a rating should be a whole number score.	0 (no impact), otherwise,	Visibility Threshold Level - Check the box next to the description that most closely the selected KOP.	/ describes the visual prominence of the Project from
4 Data the consultable of the consultation of the 2 ft area.		Visibility Rating Descrip	vition
 Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible) 			

Land Use: Water Resources: 1.5 Landform: 1 User Activity: Vegetation: Total: 5.5 1 5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) Water Resources: 1.5 Land Use: 1 Landform: User Activity: 1 1 Total: Vegetation: 1 5.5 6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominant) Water Resources: 1.5 Land Use: Landform: User Activity: 1 1 Vegetation: 1 Total: 5.5 7. Comments: Compatibility: The low profile of the turbines on the horizon, as well as their organized and patterned layout minimizes their potential disharmony with the the bridge. Spatial Dominance: The proposed turbines are small on the horizon and do not compete with the proportion of sand and sky, which are the major elements within the view.

		KOP: SICO2 Townsend	's Br
Proposed Conditions Visibility Threshold Level - Check the e selected KOP.	box next to the description that most closely describes the visu	Date: <u>17 February 2021</u> ual prominence of the Project	
Visibility Rating	Description		
Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could no who was unaware of it in advance and looking for it. Even under those circular be seen only after looking at it closely for an extended period.		
Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observe horizon or looking more closely at an area, can be detected without extend sometimes be noticed by casual observers; however, most people would n some active looking.	ed viewing. It could	
Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and wimost casual observers, but without sufficient size or contrast to compete wiseascape elements.		
Irisibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of he study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to landscape/seascape elements, but with insufficient visual contrast to strong attention and insufficient size to occupy most of an observer's visual field.		√
Asibility level 5. Strongly attracts the visual attention of views in the general direction of he study subject. Attention may be drawn by the strong contrast in form, line, color, or exture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding so strongly that it is a major focus of visual alteriation, drawing viewer attent tending in lot dist alteriation. In addition to strong contrasts in form, line, to bright light sources such as lighting and reflectional and moving objects as subject may contribute substantially of orating viewer attention. The visual study subject interferes noticeably with views of nearby landscape/seascap	ion immediately and plor, and texture, sociated with the study I prominence of the	
/Isbillity level 6. Dominates the view because the study subject fills most of the issual field for views in its general direction. Strong contrasts in form, line, color, texture, uninance, or modion may contribute to riew dominance.	An object/phenomenon with strong visual contrasts that is so large that it or visual field, and views of it cannot be avoided except by turning one's head a direct view of the object. The object/phenomenon is the major focus of visit large apparent size is a major factor in its view dominance. In addition to si line, color, and learnute, right light sources and moving objects associated may contribute substantially to drawing viewer attention. The visual promin subject detracts noticeably from views of other landscape/seascape elements.	I more than 45° from sual attention, and its ze, contrasts in form, with the study subject ence of the study	
Comments:			
VA			



Visual Impact Assessment	Visual Impact Assessment	Personnel: KV
Date: 02-18-2021 Personnel: KV		KOP: SICO2 - Townsend Bria
andscape Similarity Zone: Open Water/Undeveloped Key Observation Point Name/Number: SIC02 - Townser	Principles of composition, continued: 3. Visual Clutter	Date: <u>02-18-2021</u>
Key Observation Point (KOP) Familiarization		n create visual clutter (disrupting the natural order), which generally has an
andscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.	Does this view contain elements that contribute to visual of	clutter? Yes No
The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment for proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 m	ninutes)	
, , , , , , , , , , , , , , , , , , ,	4. Movement	t desired to the state of the s
General elements of formal visual analysis to be considered include:	Motion of existing and proposed elements in a view can attract	
 Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions, 	Does this view contain elements in motion that are likely in (If the answer is yes, Note these elements in rating form of	
especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or ephemeral landscapes.		comments)
• Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character		
of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color,	5. Duration of View	
edge, dumle, and surrounding space. Line releas to the pain the eye rollow when perceiving adupt changes in from, cond, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to the visual surface characteristics of an object. The extent to which form, fine, color, and texture of a project are similar to or	of time. Longer duration views of a project, especially from sig	roadway or hiking a trail, while others are seen for a more prolonged period gnificant aesthetic resources, have the greatest potential for visual impact.
contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.	The duration of this view is: 🗹 Short Term/Fleeting 🗆] Long-term
 Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seasca and thus dominates seascape composition from a specific viewpoint. 	The frequency of this view is: ☐ Repeated ☑ Occas	sional
· Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scal	e 6. Atmospheric Conditions	
within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors.		d conditions can affect the visibility of an object or objects. These conditions nents with landscape/seascape elements and the design elements of form,
Principles of composition to be considered include:	Conditions in this view can be described as: 🗹 Clear [☐ Partly Cloudy ☐ Overcast ☐ Hazy
1. Focal Point	Conditions that may increase/decrease visibility could be	described as: visibility may be decreased with overcast/hazy skies
Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal poin the landscape/seascape.	ints Front lighting refers to a situation where the light source is co viewed. Side lighting refers to a viewing situation in which sur	coming toward the observer from behind a feature or elements in a scene. ming from behind the observer and falling directly upon the area being milight is coming from overhead or the side of the observer to a feature or effect on the visibility and contrast of landscape and project elements.
Does this view contain a focal point? ☑ Yes ☐ No		
If yes, briefly identify/describe: the small central pooling and dark sand to the left of it holds viewer focus	The relevant lighting condition can be described as: 🗾 ba	acklit frontlit side-lit
 Order Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land useldevelopment. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order 	0. Scenic of Recreational value	ion that there is broad public consensus on the value of that particular of its scenic or recreational value provide guidance in evaluating a project's
are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.	resource. The characteristics of the resource that contribute to visual impact on that resource.	o its scenic or recreational value provide guidance in evaluating a project's
Does this view contain a natural order? Yes No If yes, how does the natural order affect the view?	Would viewers consider this location a valued scenic or recre-	ational resource? 🗹 Yes 🔲 No
the neutral colors of vegetation and sand, and the gentle pastels of water and sky provide a calming image with the warmth of early survise.	How would the site be used for scenic or recreational enjoym	ent? While the resource photographed from is not recreational, the view portrays an accessible beach front and dunes landscape
ATLANTIC SHORES offshore wind	1 of 6 ATLANTIC SHORES offshore wind	2

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Visual Impact Assessment	Personnel: KV	sond D-i-
	KOP: SICO2 - Town	sena Br
Existing Conditions	Date: <u>02-18-2021</u>	
In the existing view rate the aesthetic quality/sensitivity of each resource on a	score of 1 to 9 (1 liability to 9 distinct)	
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact be a whole number score.	t), otherwise, rating should	
		Scor
	Water Resources:	6
	Landform:	6
	Vegetation:	5
	Land Use:	4
	User Activity:	3
	Existing Conditions #1 Total:	24
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 bei	ing high density)	
Special Condition A. Does this zone contain any scen	ic, cultural, or historic landmarks?	1
Special Condition B. Are there other aesthetic el	ements that add to this resource?	0
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 fi	ree of litter/pollution)	
Special Condition C. Is this zor	ne free from pollution and/or litter?	3
Existing Condition	s #2 Total (Sum 2A through 2C)	4
Existing Conditions Grand To 3. Comments:	otal (Sum #1 Total and #2 Total)	28
motion attracting viewer attention: Birds, ocean waves.		
This view takes in a sandy shoreline at the edge of a barrier island where the ocean meets 180 degrees, the landform while primarily flat with a slight decline toward the shoreline has where it appears seasonal flooding may take place, the grassy vegetation just reaches into maintained to hold the edge of the island. While the view in this scene appears natural and view is from a roadway bridge that provides connection between barrier islands and has m balanced with residential and uses just beyond the view. Similarly user activity at this local sandy shore to drivers passing on the highway like tridges.	slight undulation particularly moving toward the gras of the view, but the context map indicates a large swall t is highlighted by the soft pastel sunrise, it is importar any characterístics of a highway bridge. However, this	sy vegetation h of vegetation nt to note the s is also

Visual Impact Assessment	Personnel: KV	
visual impuot / issossinon	KOP: SICO2 - Town	nsend Bri
Proposed Conditions	Date: <u>02-18-2021</u>	
1. With the proposed project in place, rate the aesthetic quality/sensitivity of each resor	urce on a score of 1 to 9 (1 liability to 9 of	distinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Sco
	Water Resources:	5
	Landform:	5
	Vegetation:	5
	Land Use:	4
	User Activity:	3
 Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct) Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can be adjusted up or down based upon the Proposed Conditions view. 	Special Conditions:	4
	Total:	20
3. Comments:		
With the WTG in place the surrounding open water at this location will be impacted by the intensel from development and an element of natural character becomes further industrialized backed by It However the distance and angle from the array allows the WTG to appear smaller on the horizon the rows. At this location the effect appears orderly in nature. Given this location in connection will minimally impacted despite the visibility of the turbines.	he roadway bridge and now fronted by the W and the stacking allows a view down open w	TG array. raterways bet



Personnel: KV Visual Impact Assessment KOP: SIC02 - Townsend Bris Date: 02-18-2021 Proposed Conditions - Compatibility and Contrast Rating Note: If an element is not present in the view the score should be a 0 (no impact), otherwise. rating should be a whole number score 4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible) Water Resources: Land Use: 3 2 User Activity Landform: 3 2 Vegetation: Total: 3 13 5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) Water Resources 2 Land Use: 2 Landform 2 User Activity: 2 Vegetation: 2 Total: 10 6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominant) Water Resources Land Use 2 Landform User Activity: 2 Vegetation: Total 11

7 Comments:

Again the turbines at this location as seen within the view are not compatible and dominate the water resources, however the juxtanosition with the roadway bridge limits the contrast in consideration of land use and user activity. However, this must also be balanced with the user activity.

ATLANTIC SHORES

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Personnel: KV KOP: SICO2 - Townsend Bris

Date: 02-18-2021

Proposed Conditions

8. Visibility Threshold Level - Check the box next to the description that most closely describes the visual prominence of the Project from the selected KOP

Visibility Rating	Description
Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.
Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more loosely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.
Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.
Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.
/isibility level 5. Strongly attracts the visual attention of views in the general direction of he study subject. Attention may be drawn by the strong contrast in form, line, color, or exture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and lending to hold that attention. In addition to strong contrasts in form, line, color, and lexture, bright light sources such as lighting and reflections and moving objects associated with the study subject may contribute substantially of drawing viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements.
Irisibility level 6. Dominates the view because the study subject fills most of the ivacuation in the general direction. Strong contrasts in form, line, color, texture, uminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by turning one's head more than 5'd. and a direct view of the object. The object/phenomenon is the major focus of visual attention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, color, and lockure, bright light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject defeats oblicably from views of other landscapesbeascape elements.

9. Comments:

The WTG at this location will clearly attract attention especially in weather and atmospheric conditions presented in the view. It is quite likely that at different times of day when the WTG benefit from a stronger front lighting that the white color will blend with sky and visibility will be closer to a VTL 4

ATLANTIC SHORES

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Visual	Impact	Assessment

Date: February 19, 2021

Personnel· Steve Breitzka

Landscape Similarity Zone: Open Water/Undevel. Bay

Key Observation Point Name/Number: SIC02

Key Observation Point (KOP) Familiarization

Landscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.

The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form (proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes)

General elements of formal visual analysis to be considered include:

- Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or ephemeral landscapes.
- Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or context with these comes dependent in the overland and seasons. contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.
- Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint.
- Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale
 within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and

Principles of composition to be considered include:

1. Focal Point

Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape.

Does this view contain a focal point? \square Yes ${\color{red} \,}{\color{blue} \,}{\color{blue}$

If yes, briefly identify/describe:

2. Order

Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.

Does this view contain a natural order? Yes No If yes, how does the natural order affect the view'

The natural order is only prevalent in how there are three stages to the landscape progressing from the ocean, to the beach, to the vegetated

ATLANTIC SHORE							
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Visual	Impact	Assessment

Personnel:	Steve	Breitzka
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KOP:	31002		
Date:	February	19.	2021

Principles of composition, continued:

3.	Visual Clutter
	Numerous unrelated built elements occurring within a view can create visual clutter (disrupting the natural order), which generally has
	adverse effect on scenic quality.

Does this view contain elements that contribute to visual clutter?
Ves
No

If yes, how does the visual clutter affect the view?

4. Movement

Motion of existing and proposed elements in a view can attract viewer attention

Does this view contain elements in motion that are likely to attract viewer attention? $\ lacksquare$ Yes $\ lacksquare$ No

(If the answer is yes, Note these elements in rating form comments)

Factors affecting visual impact:

5. Duration of View

Some views are seen as quick glimpses while driving along a roadway or hiking a trail, while others are seen for a more prolonged period of time. Longer duration views of a project, especially from significant aesthetic resources, have the greatest potential for visual impact.

The duration of this view is: Short Term/Fleeting Long-term The frequency of this view is:

Repeated
Occasional

6. Atmospheric Conditions

Clouds, precipitation, haze, and other ambient weather-related conditions can affect the visibility of an object or objects. These conditions can greatly impact the visibility and contrast of project components with landscape/seascape elements and the design elements of form,

Conditions that may increase/decrease visibility could be described as: The perfectly clear sky has a peachy glow this early in the

7. Lighting Direction

Assembly to the second of the elements in a scene. Lighting direction can have a significant effect on the visibility and contrast of landscape and project elements.

8. Scenic or Recreational Value

Designation as a scenic or recreational resource is an indication that there is broad public consensus on the value of that particular resource. The characteristics of the resource that contribute to its scenic or recreational value provide guidance in evaluating a project's visual impact on that resource.

Would viewers consider this location a valued scenic or recreational resource?

Yes

No

How would the site be used for scenic or recreational enjoyment?



Visual Impact Assessment	Personnel: Steve Breit	tzka	Visual Impact Assessment	Personnel: Steve Breitzka	
·	KOP:_SICO2		Visual impact / issossinone	KOP: <u>S/C02</u>	
Existing Conditions	Date: February 1	19, 2021	Proposed Conditions	Date: February 19, 2	021
1. In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9	9 (1 liability to 9 distinct)		With the proposed project in place, rate the aesthetic quality/sensitivity of each re	source on a score of 1 to 9 (1 liability to 9 dis	tinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, ra be a whole number score.	ting should		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Score
		Score		Water Resources:	5
	Water Resources:	7		Landform:	5
	Landform:	7		Vegetation:	4
	Vegetation:	5		Land Use:	5
	Land Use:	5		User Activity:	5
	User Activity:	5			
Existing	Conditions #1 Total:	29	Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct)		
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high densit	ty)		Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	2
Special Condition A. Does this zone contain any scenic, cultural,	or historic landmarks?	0		·	
Special Condition B. Are there other aesthetic elements that	add to this resource?	0		Total:	26
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/pol	llution)				
Special Condition C. Is this zone free from	pollution and/or litter?	2	3. Comments:		
Existing Conditions #2 Total ((Sum 2A through 2C)	2	There is no defined focal point in the existing view. The cresting waves and the small amount color. The proposed turbines add a repeated focal point across most of the horizon, stacked or with multiple blades. The turbines add an industrial requiralty to the view that is completely on	ne after the other, at one point appearing like one r	
Existing Conditions Grand Total (Sum # 3. Comments:	1 Total and #2 Total)	31	A pale pink horizon, coupled with the sunrise, makes the turbines stand out as dark forms acro		
This is a view the majority of people will see traveling at 25-mph over the bridge. There are sidewalks to a a prolonged view. The wide sandy beach is accessible although this portion is adjacent to the bridge and shoreline adding movement and whitecaps in the otherwise calm water. The sky and the sand share warm sand to the rosy pink hues fading to pale blue in the sunrise sky.	road. Low waves are present acro	oss the entire visible			
ATLANTIC SHORES offshore wind		3 of 6	ATLANTIC SHORES offshore wind		4 of 6
Visual Impact Assessment	Personnel: Steve Breit	tzka	Visual Impact Assessment	Personnel: Steve Breitzka	

Visual Impact Assessment	Pe	rsonnel: <u>Steve Breitzka</u> KOP: SIC02
Dropocod Conditions Compatibility and Contract	Dating	Date: <u>February 19, 202</u>
Proposed Conditions - Compatibility and Contrast	Kaling	
Note: If an element is not present in the rating should be a whole number score		e a 0 (no impact), otherwise,
4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compati	ible to 3 not compatible)
Water Resources: 2	Land Use:	1
Landform: 3	User Activity:	1
Vegetation: 2	Total:	9
5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to	3 severe)	
Water Resources: 2	Land Use:	1
Landform: 2	User Activity:	1
Vegetation:	Total:	7
6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subor	dinate, 2 co-dominant, 3	3 dominant)
Water Resources: 2	Land Use:	1
Landform: 2	User Activity:	1
Vegetation: 2	Total:	8
7. Comments:		

Visibility Rating	Description	
Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
/isibility level 2. Visible when scanning in he general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more loosely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice if without some active looking.	
Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	
/isibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of he study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	Г
/isibility level 5. Strongly attracts the visual attention of views in the general direction of he study subject. Attention may be drawn by the strong contrast in form, line, color, or exture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer all entition immediately and tending to hold that attention. In addition to strong contrasts in form, line, color, and texture, bright light sources such as lighting and reflections and moving objects associated with the study subject may contribute substantially of drawing viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscapo/seascape elements.	√
Visibility level 6. Dominates the view because the study subject fills most of the issual field for views in its general direction. Strong contrasts in form, line, color, texture, uminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by turning one's head more than 45° from a direct view of the object. The object/phenomenon is the imagin focus of visual alterition, and list large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, color, and testive; bright light sources and moving objects associated with the study subject may contribute substantially to drawing viewer afterion. The visual prominence of the study subject detricts horicoatly from views of other landscapedesscape elements.	
exture, luminance, or motion. #/sibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture,	subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements. An object/plenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by furning one's head more than 45° from a direct view of the object. The object/plenomenon is the major focus of visual attention, and its large apparent size is a major factor in 8 view dominance. In addition to size, contrasts in form,	



Visual Impact Assessment		Visual	Impact Assessment	Personnel: Jocelyn Gavitt
Date: 2/17/21	Personnel: Jocelyn Gavitt			KOP: SPB01 Seaside Park
			iples of composition, continued:	Date: 2/17/21
Landscape Similarity Zone: Openfront Residential Key Observation Point (KOP) Familiarization	Key Observation Point Name/Number: SPB01 Seaside Po		isual Clutter lumerous unrelated built elements occurring within a view can create visual clutter (disrup dverse effect on scenic quality.	oting the natural order), which generally has an
,			Does this view contain elements that contribute to visual clutter?	
Landscape/seascape, viewer, and related factors to be considered d	uring evaluation of the KOP are outlined below.			
The effect of the proposed Project on these factors should be incorp (proposed conditions). (This form is intended to record initial observed)		nutos)	If yes, how does the visual clutter affect the view? There are some structures on the due.	unes that capture attention
proposed conditions). (This form to intended to record initial escent	and and another the composite quiety, taking no more than a mil	4. N	lovement	
General elements of formal visual analysis to be considered	d include:	"	lotion of existing and proposed elements in a view can attract viewer attention.	
their spatial arrangement. Basic landscape components inc	objects and voids in the landscape that can be categorized by slude vegetation, landform, water, and sky. Some compositions,		Does this view contain elements in motion that are likely to attract viewer attention?	✓ Yes □ No
especially those that are distinctly focal, enclosed, detailed, panoramic, canopied, or ephemeral landscapes.	or feature-oriented, are more vulnerable to modifications than		(If the answer is yes, Note these elements in rating form comments)	
. Form, Line, Color, and Texture: These are the four major	compositional elements that define the perceived visual character	r Facto	ors affecting visual impact:	
	to the shape of an object that appears unified, often defined by		uration of View	
	th the eye follows when perceiving abrupt changes in form, color, es in the landscape/seascape. Texture, in this context, refers to		Some views are seen as quick glimpses while driving along a roadway or hiking a trail, wl of time. Longer duration views of a project, especially from significant aesthetic resources	
the visual surface characteristics of an object. The extent to contrast with these same elements in the existing landscap	which form, line, color, and texture of a project are similar to or e/seascape is a primary determinant of visual impact.		The duration of this view is: ☐ Short Term/Fleeting ☑ Long-term	, nate the groundst potential for notice improve
 Spatial Dominance: The degree to which an object or land and thus dominates seascape composition from a specific 	scape/seascape element occupies space in a landscape/seascap viewpoint.	pe	The frequency of this view is: Repeated Occasional	
Project Scale: The apparent size of a proposed project in it.	relation to its surroundings can define the compatibility of its scale	e 6. A	tmospheric Conditions	
within the existing seascape. Perception of project scale is other contextual factors.	likely to vary depending on the distance from which it is seen and		Clouds, precipitation, haze, and other ambient weather-related conditions can affect the very can greatly impact the visibility and contrast of project components with landscape/seasca ine, color, texture, and scale.	
Principles of composition to be considered include:			Conditions in this view can be described as: 🗹 Clear 🗖 Partly Cloudy 🗖 Over	cast Hazy
1. Focal Point			Conditions that may increase/decrease visibility could be described as: Increased mo	sisture in the air could impact visibility.
physical characteristics. Focal points often contrast with the tend to draw a viewer's attention. Examples include promin	s stand out and are particularly noticeable as a result of their eir surroundings in color, form, scale, or texture, and therefore nent trees, mountains, or cultural features, such as a distinctive ted so as to obscure or compete with important existing focal poin	nts	ighting Direction Backlighting refers to a viewing situation in which sunlight is coming toward the observer in conting the state of the situation where the light source is coming from behind the observiewed. Side lighting refers to a viewing situation in which sunlight is coming from overheadements in a seen. Lighting direction can have a sindificant effect on the visibility and of the properties in a seen. Lighting direction can have a sindificant effect on the visibility and or	ver and falling directly upon the area being ad or the side of the observer to a feature or
Does this view contain a focal point? Yes N	lo		,	
If yes, briefly identify/describe:			The relevant lighting condition can be described as: backlit frontlit sid	le-lit
2. Order				
by displaying traditional or logical patterns of land use/devi this natural order may detract from scenic quality. When a	letermined by natural processes. Cultural landscapes exhibit ordel loppment. Elements in the landscape that are inconsistent with new project is introduced to the landscape, intactness and order olors, and textures existing in the surrounding built or natural	6.5	cenic or Recreational Value Designation as a scenic or recreational resource is an indication that there is broad public seource. The characteristics of the resource that contribute to its scenic or recreational v isual impact on that resource.	
Does this view contain a natural order? Yes If yes, how does the natural order affect the view?	No		Nould viewers consider this location a valued scenic or recreational resource? 🗹 Yes	□ No
There is a balance of shoreline elements and open water in this v	iew.		How would the site be used for scenic or recreational enjoyment? This view is from a well	used beach area.
ATLANTIC SHORES offshore wind			ANTIC SHORES offshore wind	2 0

Visual Impact Assessment	Personnel: Jocelyn Gavi	tt	Visual Impact Assessment	Personnel: Jocelyn Gav	vitt
·	KOP: SPB01 Seasion	de Park 🗈	Trodal Impact, (Social Inc.)	KOP: SPB01 Seas	side Park 🗅
Existing Conditions	Date: <u>2/17/21</u>		Proposed Conditions	Date: 2/17/21	
1. In the existing view rate the aesthetic quality/sensitivity of each reso	ource on a score of 1 to 9 (1 liability to 9 distinct)		With the proposed project in place, rate the aesthetic quality/sensitivity of each res	source on a score of 1 to 9 (1 liability to 9	distinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 be a whole number score.	(no impact), otherwise, rating should		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Score
		Score		Water Resources:	7
	Water Resources:	8		Landform:	6
	Landform:	6		Vegetation:	6
	Vegetation:	6		Land Use:	8
	Land Use:	8		User Activity:	8
	User Activity:	8			
	Existing Conditions #1 Total:	36	Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct)		
2. Respond to each question below using a score of 0 to 3 (0 not prese	ent to 3 being high density)		Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	6
Special Condition A. Does this zone contain a	any scenic, cultural, or historic landmarks?	2		•	0
Special Condition B. Are there other aes	sthetic elements that add to this resource?	2		Total:	41
Respond to each question below using a score of 0 to 3 (0 littered/poll	uted to 3 free of litter/pollution)				
Special Condition C. Is	s this zone free from pollution and/or litter?	2	3. Comments:		
Existing C	onditions #2 Total (Sum 2A through 2C)	6	The proposed turbine field is minimally visible at the horizon line. It will most likely go unnoticed	I by users, having very little impact on this view	vpoint.
Existing Conditions (Grand Total (Sum #1 Total and #2 Total)	42			
This is a view up the coastline showing open water to one side, a large flat san to the beach. There general focus is of the converging lines of beach, water, d and has clear wave motion.					

Score 7

41

Visual Impact Assessment Personnel: Jocelyn Gavitt KOP: SPB01 Seaside Park Date: 2/17/21 Proposed Conditions - Compatibility and Contrast Rating Note: If an element is not present in the view the score should be a 0 (no impact), otherwise, rating should be a whole number score. 4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible) Water Resources: Land Use: 1 1 Landform: 1 User Activity: Vegetation: Total: 5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) Water Resources: 1 Land Use: Landform: User Activity: Vegetation: 1 Total: 6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 dominant) Water Resources: Land Use: Landform: User Activity: Vegetation: Total: 5 7. Comments: The turbines will likely go unnoticed. They are at a great enough distance as to only be detectable in the clearest of conditions.

ATLANTIC SHORES offshore wind

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visuai	Impact	Assessmen	l

Personnel: Jocelyn Gavitt

KOP: SPB01 Seaside Park

Date: 2/17/21

Proposed Conditions

8. Visibility Threshold Level - Check the box next to the description that most closely describes the visual prominence of the Project from the selected KOP,

Visibility Rating	Description	
Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more loosely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	√
Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	
Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major forcus of visual fasteriou, drawing viewer attention immediately and tending to hold that attention. In addition to strong contrasts in form, line, color, and texture, bright light sources such as lighting and reflectionst and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual promisence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	
Visibility level 6. Dominates the view because the study subject fills most of the was lift let for was in its general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by furning one's head more than 45° from a direct view of the object. The object/phenomenon is the major fous of visual attention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, color, and texture, bright [light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.	

9. Comments:

The turbines are not very visible. Most users are likely not to notice them.

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Date: 17 February 2021	Personnel: KAC
Landscape Similarity Zone: Oceanfront Residential	Key Observation Point Name/Number: SPB01 Seaside Pk B
Key Observation Point (KOP) Familiarizatio	n
Landscape/seascape, viewer, and related factors to be considered	d during evaluation of the KOP are outlined below.
	prorated into the scoring and comments on the VIA assessment form provisions and should be completed quickly, taking no more than 5 minutes
General elements of formal visual analysis to be conside	red include:
their spatial arrangement. Basic landscape components	of objects and voids in the landscape that can be categorized by include vegetalion, landform, water, and sky, Some compositions, ad, or feature-oriented, are more vulnerable to modifications than
of a landscape/seascape, as well as a project. Form refe edge, outline, and surrounding space. Line refers to the or texture, usually evident as the edges of shapes or ma	or compositional elements that define the perceived visual character is to the shape of an object that appears unified, often defined by path the eye follows when perceiving abrupt changes in form, color, sses in the landscape/seascape. Texture, in this context, refers to I to which form, line, color, and texture of a project are similar to or ape/seascape is a primary determinant of visual impact.
 Spatial Dominance: The degree to which an object or la and thus dominates seascape composition from a specifi 	indscape/seascape element occupies space in a landscape/seascape ic viewpoint.
	n relation to its surroundings can define the compatibility of its scale is likely to vary depending on the distance from which it is seen and
Principles of composition to be considered include:	
1. Focal Point	
physical characteristics. Focal points often contrast with tend to draw a viewer's attention. Examples include pro	res stand out and are particularly noticeable as a result of their their surroundings in color, form, scale, or texture, and therefore minent trees, mountains, or cultural features, such as a distinctive sited so as to obscure or compete with important existing focal points
Does this view contain a focal point? ✓ Yes ✓	
If yes, briefly identify/describe: Restored beach grass pl	anting and horizon line.
2. Order	
by displaying traditional or logical patterns of land use/d this natural order may detract from scenic quality. When	r determined by natural processes. Cultural landscapes exhibit order evelopment. Elements in the landscape that are inconsistent with a new project is introduced to the landscape, intactness and order colors, and textures existing in the surrounding built or natural
Does this view contain a natural order? Yes If yes, how does the natural order affect the view?	□ No
Pathway, split-rail fence, beach grass, sand, surf, ocean and h flat beach and ocean landform that is squeezed between the s	orizon; sunken landscape with the sloping re-vegetation area pushing against the trong line of the sky at the horizon.

Visual Impact Assessment	Personnel: KAC	
•	KOP: SPB01 Seaside Pk B	
Principles of composition, continued:	Date: 17 February 2021	
3. Visual Clutter		
	ew can create visual clutter (disrupting the natural order), which generally has an	
Does this view contain elements that contribute to v	isual clutter? 🗹 Yes 🗆 No	
If yes, how does the visual clutter affect the view?	Split-rail fencing, litter receptacles, miscellaneous walkway/ramp handrails, life guards	
4. Movement	stations, beach sheds, and long-arm light poles at the residential street.	
Motion of existing and proposed elements in a view can	attract viewer attention.	
Does this view contain elements in motion that are I	ikely to attract viewer attention? 🗹 Yes 🗖 No	
(If the answer is yes, Note these elements in rating	form comments)	
Factors affecting visual impact:		
5. Duration of View		
	ong a roadway or hiking a trail, while others are seen for a more prolonged period om significant aesthetic resources, have the greatest potential for visual impact.	
The duration of this view is: Short Term/Fleeting	ng Long-term	
The frequency of this view is: \square Repeated $\!$	Occasional	
6. Atmospheric Conditions		
Clouds, precipitation, haze, and other ambient weather	related conditions can affect the visibility of an object or objects. These conditions omponents with landscape/seascape elements and the design elements of form,	
Conditions in this view can be described as: 🗹 C	lear Partly Cloudy Overcast Hazy	
Conditions that may increase/decrease visibility co	uld be described as: Atmospheric haze would reduce visibility to the turbines.	
7. Lighting Direction		
Backlighting refers to a viewing situation in which sunlig Front lighting refers to a situation where the light source viewed. Side lighting refers to a viewing situation in whi	In it is coming toward the observer from behind a feature or elements in a scene, is coming from behind the observer and falling directly upon the area being the sunlight is coming from overhead or the side of the observer to a feature or ficant effect on the visibility and contrast of landscape and project elements.	
The relevant lighting condition can be described as:	□ backlit □ frontlit ☑ side-lit	
8. Scenic or Recreational Value		
Designation as a scenic or recreational resource is an indication that there is broad public consensus on the value of that particular resource. The characteristics of the resource that contribute to its scenic or recreational value provide guidance in evaluating a project's visual impact on that resource.		
Would viewers consider this location a valued scenic or	recreational resource? 🗹 Yes 🗖 No	
How would the site be used for scenic or recreational e	njoyment? Seaside Park Beach and Boardwalk, US Life Saving Station	

Visual Impact Assessment Per	rsonnel: KAC		Visual Impact Assessment	Personnel: KAC	
Tional Imputer toolsonion	KOP: SPB01 Seas	ide Pk B	visual impact Assessment	KOP: SPB01 Seasid	le Pk B
Fuinting Conditions	Date: 17 February	2021	Drawaged Canditions	Date: 17 February 20	021
Existing Conditions 1. In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1 liabi	ility to 9 distinct)		Proposed Conditions	o an a coare of 1 to 0 /1 liability to 0 die	atinat)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating shot	-		 With the proposed project in place, rate the aesthetic quality/sensitivity of each resourc Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), 	e on a score or 1 to 9 (1 liability to 9 dis	
be a whole number score.			otherwise, rating should be a whole number score.		Score
		Score		Water Resources:	6
Wa	ater Resources:	6		Landform:	7
	Landform:	7		Vegetation:	7
	Vegetation:	7		Land Use:	6
	Land Use:	6		User Activity:	6
	User Activity:	6			
Existing Condi	litions #1 Total:	32	2. Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct)		
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high density)			Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	4
Special Condition A. Does this zone contain any scenic, cultural, or history	oric landmarks?	2		·	4
Special Condition B. Are there other aesthetic elements that add to	o this resource?	1		Total:	36
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/pollution)					30
Special Condition C. Is this zone free from polluti	ion and/or litter?	1	3. Comments:		
Existing Conditions #2 Total (Sum 2	2A through 2C)	4	The installation of the wind farm is not apparent in the proposed view, therefore, there is no change to	the visual integrity of the view.	
Existing Conditions Grand Total (Sum #1 Total	al and #2 Total)	36			
Cultural Historic: Seaside Park Beach and Boardwalk, US Life Saving Station					
Aesthetic: The rolling landform with re-vegetated beach grass slope is visually interesting and dynamic.					
Litter: Beach visitor litter					
Summary of View: The elevated view from the entry path to the beach offers a unique opportunity to observe a rest spiky beach grass is visually interesting in neatly planted rows that contrasts texturally with the smoothness of the b shoreline waves. This view is dominated by the vegetated intervention rather than the beach itself.					
ATLANTIC SHORES offshore wind		3 of 6	ATLANTIC SHORES offshore wind		4 of 6

Visual Impact Assess	sment	Personnel: KAC	Visual Impact Assess	ment Personnel: KAC	
Tioual III paori Ioosoo		KOP: SPB01 Seaside Pk B		KOP: SPB01 Seaside	Pk B
Proposed Conditions - Compati	hility and Contract Dating	Date: <u>17 February 2021</u>	Proposed Conditions	Date: 17 February 202	21
Froposed Conditions - Compati	bility and Contrast Rating	3	'	ne box next to the description that most closely describes the visual prominence of the Proje	ect from
	an element is not present in the view the hould be a whole number score.	score should be a 0 (no impact), otherwise,	the selected KOP.		
Rate the compatibility of the proposed project of the project	on a scale of 1 to 3 (1 compatible to 3 no	ot compatible)	Visibility Rating	Description	
Water Resources:		and Use:	Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	\checkmark
Landform:	1 User	Activity: 1	Visibility level 2. Visible when scanning in the general direction of the study subject;	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could	
Vegetation:	1	Total: 5	otherwise likely to be missed by casual observers.	sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	ш
5. Rate scale contrast of the proposed project on a			Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.		
Water Resources:		and Use: 1	Visibility level 4. Plainly visible, so could	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other	
Landform:	1 User	Activity: 1	not be missed by casual observers, but does not strongly attract visual attention or	landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
Vegetation:	1	Total: 5	dominate the view because of its apparent size, for views in the general direction of the study subject.		ш
6. Rate spatial dominance of the proposed project	t on a scale of 1 to 3 (1 subordinate, 2 c	o-dominant, 3 dominant)	Visibility level 5. Strongly attracts the visual	An object/ohenomenon that is not large but contrasts with the surrounding landscape elements	
Water Resources:	1 La	and Use: 1	attention of views in the general direction of the study subject. Attention may be drawn	so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to strong contrasts in form, line, color, and texture,	_
Landform:	1 User	Activity: 1	by the strong contrast in form, line, color, or texture, luminance, or motion.	bright light sources such as lighting and reflections! and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	Ш
Vegetation:	1	Total: 5			
			Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by turning one's head more than 45° from a direct view of the object. The object/phenomenon is the major focus of visual attention, and its	
			Strong contrasts in form, line, color, texture, luminance, or motion may contribute to		
7. Comments:			view dominance.	may contribute substantially to drawing viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.	ш
Compatibility: The turbines are not apparent in the view	ı.				
Scale: The turbines are not apparent in the view.					
Spatial Dominance: The turbines are not apparent in th	e view.				
			9. Comments:		
			N/A		

Vicual Impact Accoccment	Visual Impact Assessment Personnel: KV	
/isual Impact Assessment	KOP: SPB01 - Seaside Pa	ark#
ate: <u>02-18-2021</u> Personnel: <u>KV</u>	Principles of composition, continued: Date: 02-18-2021	
andscape Similarity Zone: Oceanfront Residential Key Observation Point Name/Number: SPB01 - Seaside Parle	3. Visual Clutter	
Key Observation Point (KOP) Familiarization	Numerous unrelated built elements occurring within a view can create visual clutter (disrupting the natural order), which generally has adverse effect on scenic quality.	an
andscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.	Does this view contain elements that contribute to visual clutter? 🗹 Yes 🗌 No	
he effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes)	If yes, how does the visual clutter affect the view? trash cans, life guard stands and items for beach maintenance circulate the gaze around the beach shoreline bouncing between all the cluttered amenities.	
repease conditions, (1773 to 1773 to 1773 to 1774 to 1	4. Movement	
General elements of formal visual analysis to be considered include:	Motion of existing and proposed elements in a view can attract viewer attention.	
 Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions, especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than 	Does this view contain elements in motion that are likely to attract viewer attention? ✓ Yes No (If the answer is yes, Note these elements in rating form comments)	
panoramic, canopied, or ephemeral landscapes.	Factors affecting visual impact:	
 Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by 	5. Duration of View	
edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, cofor, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to	Some views are seen as quick glimpses while driving along a roadway or hiking a trail, while others are seen for a more prolonged pe of time. Longer duration views of a project, especially from significant aesthetic resources, have the greatest potential for visual impac	riod at.
the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.	The duration of this view is: ☑ Short Term/Fleeting ☐ Long-term	
 Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint. 	The frequency of this view is: 🗹 Repeated 🗆 Occasional	
 Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors. 	6. Atmospheric Conditions Clouds, precipitation, haze, and other ambient weather-related conditions can affect the visibility of an object or objects. These conditions can greatly impact the visibility and contrast of project components with landscape/seascape elements and the design elements of for line, color, texture, and scale.	
Principles of composition to be considered include:	Conditions in this view can be described as: ☑ Clear ☐ Partly Cloudy ☐ Overcast ☐ Hazy	
1. Focal Point	Conditions that may increase/decrease visibility could be described as: Overcasthazy days may have decreased visibility	
Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape.	7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming toward the observer from behind a feature or elements in a scene Front lighting refers to a situation where the light source is coming from behind the observer and falling directly upon the area being viewed. Side lighting refers to a viewing situation in which sunlight is coming from overhead or the off the observer to a feature or elements in a scene. Lighting direction can have a significant effect on the visibility and contrast of landscape and project elements.	
Does this view contain a focal point? Ves No If yes, briefly identify/describe: The darkened corner of railing connected to the neighboring beach entrance behind the life guard stands		
	The relevant lighting condition can be described as:	
2. Order Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.	Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that there is broad public consensus on the value of that particular resource. The characteristics of the resource that contribute to its scenic or recreational value provide guidance in evaluating a project visual impact on that resource.	t's
Does this view contain a natural order? ☑ Yes ☐ No If yes, how does the natural order affect the view?	Would viewers consider this location a valued scenic or recreational resource? ☑ Yes ☐ No	
the eye enters the either along the fence line or the darkened roof tops. The viewer then scans down the sloping dune and lands on the shoreline where waves and beach goers are active.	How would the site be used for scenic or recreational enjoyment? Seaside park Borough boardwalk is located just beyond this view	
ATLANTIC SHORES 1 of 6	ATLANTIC SHORES offshore wind	2 of

Visual Impact Assessment	Personnel: KV	
	KOP: SPB01 - Seas	ide Parle
Existing Conditions	Date: <u>02-18-2021</u>	
In the existing view rate the aesthetic quality/sensitivity of each resource on a s	score of 1 to 9 (1 liability to 9 distinct)	
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), be a whole number score.	otherwise, rating should	
		Score
	Water Resources:	6
	Landform:	6
	Vegetation:	6
	Land Use:	6
	User Activity:	6
	Existing Conditions #1 Total:	30
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 bein	g high density)	
Special Condition A. Does this zone contain any scenic	c, cultural, or historic landmarks?	1
Special Condition B. Are there other aesthetic ele	ments that add to this resource?	0
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free	ee of litter/pollution)	
Special Condition C. Is this zone	e free from pollution and/or litter?	3
Existing Conditions	#2 Total (Sum 2A through 2C)	4
Existing Conditions Grand To 3. Comments:	tal (Sum #1 Total and #2 Total)	34
motion attracting viewer attention: beach goes, ocean waves, birds		
The view presented is captured from the edge of a beach access location and captures the fending protects a dune landscape and dune grasses used to hold the shoreline and protect the foreground and middle ground of this view. The shoreline, whille minimally populated in it of scattered amenities including trash cans, lifeguard stands and a maintenance sheds the li and appears to continue beyond the vanishing point. The ocean is open across the horizon, an abundance of street lights further development is beyond that is visible at the edge of the	development behind it. Multiple beach access locati his view, suggests frequent and intense usership dur inear shoreline stretches down the frame on a slight behind the dunes a parking area is serviced by a sm	ons are visible in e to the quantity diagonal and nall structure and

Visual Impact Assessment	Personnel: KV	
Tioudi inipuoti tioodoomoni	KOP: <u>SPB01 - Seas</u>	side Park
Proposed Conditions	Date: <u>02-18-2021</u>	
With the proposed project in place, rate the aesthetic quality/sensitivity of each	n resource on a score of 1 to 9 /1 liability to 9 /	listinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact,	· · · · · · · · · · · · · · · · · · ·	
otherwise, rating should be a whole number score.		Score
	Water Resources:	6
	Landform:	6
	Vegetation:	6
	Land Use:	6
	User Activity:	6
	Total:	34
3. Comments:		
With the WTG in place only blade tips are indicated to be visible. While the movement of th attention it is likely that even on clear days such as that presented viewers distracted by be the distance and minimal visibility of the WTG is unlikely to have substantial impact on the I	ach activity may not notice the WTG at such a distar	



Visual Impact Assess	sment	Personnel: KV	Visual Impact Assessi	ment Personnel: KV	
F		KOP: SPB01 - Seaside Parl		КОР: <u>SPB01 - Seas</u>	ide Park
Proposed Conditions - Compati	bility and Contrast Rating	Date: <u>02-18-2021</u>	Proposed Conditions	Date: 02-18-2021 be box next to the description that most closely describes the visual prominence of the Pr	roject from
	an element is not present in the view the score shou thould be a whole number score.	ld be a 0 (no impact), otherwise,	the selected KOP.	e vox next to the description that most chosely describes the visual profilmence of the Pr	oject from
Rate the compatibility of the proposed project of the project	on a scale of 1 to 3 (1 compatible to 3 not compati	ble)	Visibility Rating	Description	
Water Resources:	1 Land Use	1	Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	\checkmark
Landform: Vegetation:	1 User Activity:		Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more obsely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
5. Rate scale contrast of the proposed project on a			Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	
Water Resources: Landform: Vegetation:	1 Land Use: 1 User Activity: 1 Total:	1	Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
6. Rate spatial dominance of the proposed project			size, for views in the general direction of the study subject.		
Water Resources: Landform:	1 Land Use User Activity	1	Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to strong contrasts in form, line, color, and texture,	
Vegetation: 7. Comments:	1 Total:	5	Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, fine, color, leature, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by turning one's head more than 45° from a direct view of the object. The object/phenomenon is the major focus of visual attention, and its	
			9. Comments: Even with the clear conditions presented h	ere the minimal visible portions of the WTG are not readily apparent and viewing is likely to require e	xlended duration.
ATLANTIC SHORES offshore wind		5 of 6	ATLANTIC SHORES	PRINT DOCUMENT TO PDF	6 of

Visual Impact Assessment	tovo Broitzko
	teve Breitzka
Landscape Similarity Zone: Open Water/Undeve. Bay Key Observation Point Name/Number: St	PB01
Key Observation Point (KOP) Familiarization	
Landscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.	
The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VI (proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking r	
General elements of formal visual analysis to be considered include:	
 Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some sepecially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to more panoramic, canopied, or ephemeral landscapes. 	e compositions,
• Form, Line, Color, and Texture: These are the four major compositional elements that define the perceive of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, of edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt chang or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this or the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project contrast with these same elements in the existing landscape/seascape is a primary determinant of visual in	often defined by ges in form, color, ontext, refers to are similar to or
 Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a land thus dominates seascape composition from a specific viewpoint. 	andscape/seascape
 Project Scale: The apparent size of a proposed project in relation to its surroundings can define the comp within the existing seascape. Perception of project scale is likely to vary depending on the distance from with other contextual factors. 	
Principles of composition to be considered include:	
1. Focal Point	
Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a rephysical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important in the landscape/seascape.	, and therefore as a distinctive
Does this view contain a focal point? ☑ Yes ☐ No	
If yes, briefly identify/describe: The beachside landscape functions like one large focal point.	
2. Order Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landsc by displaying traditional or logical patterns of land use/development. Elements in the landscape that are in this natural order may detract from scenic quality. When a new project is introduced to the landscape, inta are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding b environment.	nconsistent with actness and order
Does this view contain a natural order? \square Yes \square No If yes, how does the natural order affect the view?	
The ocean leads to a wide sandy beach, grassy vegetated dune reclamation, wooden boardwalk access, and low-rise multi-	-family housing.
ATLANTIC SHORES	1 of 6

Visual Impact Assessment	Personnel: Steve Breitzka
Tional III. page 7 to 5000 to 110	KOP: <i>SPB01</i>
Principles of composition, continued:	Date; February 19, 2021
3. Visual Clutter	butc. Footably 17/ Local
Numerous unrelated built elements occurring within a view can cre adverse effect on scenic quality.	eate visual clutter (disrupting the natural order), which generally has an
Does this view contain elements that contribute to visual clutte	er? 🔲 Yes 🗹 No
If yes, how does the visual clutter affect the view?	various components and elements visible but they do not appear cluttered.
4. Movement	
Motion of existing and proposed elements in a view can attract view	wer attention.
Does this view contain elements in motion that are likely to att	tract viewer attention?
(If the answer is yes, Note these elements in rating form comm	ments)
Factors affecting visual impact:	
5. Duration of View	
	dway or hiking a trail, while others are seen for a more prolonged period cant aesthetic resources, have the greatest potential for visual impact.
The duration of this view is: \square Short Term/Fleeting \square Lo	ong-term
The frequency of this view is: 🗹 Repeated 🗆 Occasion	al
6. Atmospheric Conditions	
	unditions can affect the visibility of an object or objects. These conditions is with landscape/seascape elements and the design elements of form,
Conditions in this view can be described as: 🗹 Clear 🔲	Partly Cloudy Overcast Hazy
Conditions that may increase/decrease visibility could be des	scribed as: The evening sky is clear, transitioning from a pale blue in the lower right to a deeper matte blue along the top.
7. Lighting Direction	torici right to a deeper mane bac doing the top.
Front lighting refers to a situation where the light source is coming viewed. Side lighting refers to a viewing situation in which sunligh	ng toward the observer from behind a feature or elements in a scene. from behind the observer and faling directly upon the area being t is coming from overhead or the side of the observer to a feature or ct on the visibility and contrast of fandscape and project elements.
The relevant lighting condition can be described as:	t ☐ frontlit ☑ side-lit
8. Scenic or Recreational Value	
	that there is broad public consensus on the value of that particular scenic or recreational value provide guidance in evaluating a project's
Would viewers consider this location a valued scenic or recreation	nal resource? 🔽 Yes 🔲 No
How would the site be used for scenic or recreational enjoyment?	This particular stretch of beach is not unique although it is still a large swath of open sand.
ATLANTIC SHORES	2 0

Visual Impact Assessment	Personnel: Steve Breitz	<u>ka</u>	Visual Impact Assessment	Personnel: Steve Breitzka	3
	KOP: <u>SPB01</u>		'	KOP: <u>SPB01</u>	
Existing Conditions	Date: February 19,	, 2021	Proposed Conditions	Date: February 19, 2	2021
In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1 lia	ability to 9 distinct)		With the proposed project in place, rate the aesthetic quality/sensitivity of each re	esource on a score of 1 to 9 (1 liability to 9 di	stinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating si be a whole number score.	hould		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Score
		Score		Water Resources:	8
V	Water Resources:	8		Landform:	6
	Landform:	6		Vegetation:	5
	Vegetation:	5		Land Use:	8
	Land Use:	8		User Activity:	8
	User Activity:	8			
Existing Con	nditions #1 Total:	35	2. Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct)		
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high density)			Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	
Special Condition A. Does this zone contain any scenic, cultural, or his	storic landmarks?	2		oposiai conditions.	2
Special Condition B. Are there other aesthetic elements that add	I to this resource?	0		Total:	37
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/pollution	n)				0,
Special Condition C. Is this zone free from polli	ution and/or litter?	2	3. Comments:		
Existing Conditions #2 Total (Sum	n 2A through 2C)	4	Following the viewing parameters, the proposed turbines are hardly noticeable at the horizon.	Only blades are visible and quantity cannot be det	termined.
Existing Conditions Grand Total (Sum #1 To 3. Comments:	otal and #2 Total)	39			
The existing view is filled with a variety of materials and textures: split-rail wooden fences, wooden handrails alor planted on-center to stabilize the dunes, people scattered along the beach, and a boardwalk with pedestrian scal. The waves gently crest at the shore, adding white highlights between the dark blue water and the beige sandy by variation at this time of early evening.	ile lighting.				
ATLANTIC SHORES offshore wind		3 of 6	ATLANTIC SHORES offshore wind		4 of (
Visual Impact Assessment	Personnel: Steve Breitz	ka	Visual Impact Assessment	Personnel: <u>Steve Breitzka</u>	3

Visual Impact Assessr	ment	ersonnel: Steve Breitzka	Visual Impact Assessr	nent Personnel: Steve Bi	eitzka
'		KOP: <u>SPB01</u>		KOP: <u>SPB01</u>	
Proposed Conditions - Compatibi	ility and Contrast Rating	Date: <i>February 19, 2021</i>	Proposed Conditions	Date: Februar be box next to the description that most closely describes the visual prominence of	
	n element is not present in the view the score should be a whole number score.	l be a 0 (no impact), otherwise,	the selected KOP.	soon text to the description that most chosely describes the visual profilmence of	ne i roject nom
Rate the compatibility of the proposed project on	a scale of 1 to 3 (1 compatible to 3 not compatit	le)	Visibility Rating	Description	
Water Resources:	1 Land Use:	1	Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a persor who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
Landform:	1 User Activity:	1	Visibility level 2. Visible when scanning in the general direction of the study subject;	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could	
Vegetation:	1 Total:	5	otherwise likely to be missed by casual observers.	sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	ш
5. Rate scale contrast of the proposed project on a s			Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	
Water Resources:	1 Land Use:	1	Visibility level 4. Plainly visible, so could	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other	
Landform: Vegetation:	1 User Activity: 1 Total:	5	not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
6. Rate spatial dominance of the proposed project of	n a scale of 1 to 3 (1 subordinate, 2 co-dominan	, 3 dominant)	Visibility level 5. Strongly attracts the visual	An object/phenomenon that is not large but contrasts with the surrounding landscape elements	
Water Resources:	1 Land Use:	1	attention of views in the general direction of the study subject. Attention may be drawn	so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to strong contrasts in form, line, color, and texture,	
Landform:	1 User Activity:	1	by the strong contrast in form, line, color, or texture, luminance, or motion.	bright light sources such as lighting and reflections! and moving objects associated with the stud subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	
Vegetation:	1 Total:	5	Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture,	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by turning one's head more than 45° from a direct view of the object. The object/phenomenon is the major focus of visual attention, and its large apparent size is a major factor in its view dominance. In addition to six, contrasts in form.	
7. Comments:			luminance, or motion may contribute to view dominance.	line, color, and texture, bright light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.	
Following the viewing parameters, the proposed turbines a	are hardly noticeable at the horizon. Only blades are v	isible and quantity cannot be determined.			
			9. Comments:		



Following the viewing parameters, the proposed turbines are hardly noticeable at the horizon. Only blades are visible and quantity cannot be determined.

Visual Impact Assessment	Visual Impact Assessment Personnel: KAC
Date: 26 February 2021 Personnel: KAC	KOP: <u>ACO4N OCR Sky Gard</u>
Landscape Similarity Zone: Atlantic City Key Observation Point Name/Number: ACO4N OCR Sky Gard	Principles of composition, continued: Date: <u>26 February 2021</u>
Key Observation Point (KOP) Familiarization	Visual Clutter Numerous unrelated built elements occurring within a view can create visual clutter (disrupting the natural order), which generally has an adverse effect on scenic quality.
Landscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.	Does this view contain elements that contribute to visual clutter? Yes No
The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form (proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes)	If yes, how does the visual clutter affect the view? N/A 4. Movement
General elements of formal visual analysis to be considered include:	Motion of existing and proposed elements in a view can attract viewer attention.
 Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky, Some compositions, especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than 	Does this view contain elements in motion that are likely to attract viewer attention? ☐ Yes ☑ No (If the answer is yes, Note these elements in rating form comments)
panoramic, canopied, or ephemeral landscapes.	Factors affecting visual impact:
 Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by 	5. Duration of View
edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, cofor, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to	Some views are seen as quick glimpses while driving along a roadway or hiking a trail, while others are seen for a more prolonged period of time. Longer duration views of a project, especially from significant aesthetic resources, have the greatest potential for visual impact.
the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.	The duration of this view is: ☐ Short Term/Fleeting ☑ Long-term
 Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint. 	The frequency of this view is: 🗹 Repeated 🗆 Occasional
 Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors. 	6. Atmospheric Conditions Clouds, precipitation, haze, and other ambient weather-related conditions can affect the visibility of an object or objects. These conditions can greatly impact the visibility and contrast of project components with landscape/seascape elements and the design elements of form, line, color, texture, and scale.
Principles of composition to be considered include:	Conditions in this view can be described as: Clear Partly Cloudy Overcast Hazy
1. Focal Point	Conditions that may increase/decrease visibility could be described as: N/A
Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape. Does this view contain a focal point?	7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming toward the observer from behind a feature or elements in a scene. From lighting refers to a situation where the light source is coming from behind the observer and falling directly upon the area being viewed. Side lighting refers to a viewing situation in which sunlight is coming from overhead or the side of the observer to a feature or elements in a scene. Lighting direction can have a significant effect on the visibility and contrast of landscape and project elements.
If yes, briefly identify/describe: Street lamps and boardwalk promenade.	
2. Order	The relevant lighting condition can be described as: abacklit frontlit side-lit
2. Order Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.	8. Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that there is broad public consensus on the value of that particular resource. The characteristics of the resource that contribute to its scenic or recreational value provide guidance in evaluating a project's visual impact on that resource.
Does this view contain a natural order?	Would viewers consider this location a valued scenic or recreational resource? 🗹 Yes 🔲 No
NA	How would the site be used for scenic or recreational enjoyment? Atlantic City.
ATLANTIC SHORES 1 of 6	ATLANTIC SHORES 2

Visual Impact Assessment	Personnel: KAC	
·	KOP: ACOAN OCK	Sky Gard
Existing Conditions	Date: 26 February	2021
In the existing view rate the aesthetic quality/sensitivity of each resource on a sc	core of 1 to 9 (1 liability to 9 distinct)	
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), be a whole number score.	otherwise, rating should	
		Score
	Water Resources:	4.5
	Landform:	4.5
	Vegetation:	4.5
	Land Use:	7
	User Activity:	7
	Existing Conditions #1 Total:	27.5
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being	g high density)	
Special Condition A. Does this zone contain any scenic	, cultural, or historic landmarks?	1
Special Condition B. Are there other aesthetic eler	ments that add to this resource?	1
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free	e of litter/pollution)	
Special Condition C. Is this zone	free from pollution and/or litter?	1
Existing Conditions	#2 Total (Sum 2A through 2C)	3
Existing Conditions Grand Tot 3. Comments:	tal (Sum #1 Total and #2 Total)	30.5
Cultural Historic: Atlantic City.		
Aesthetic: Dark sky with edge of well lit boardwalk promenade is visually interesting.		
Litter: Unseen.		
Summary of View. The night sky is jet black with no stars or planets visible in the view, which strip along. Atlantic City. The pedestrian scale street lamps and ghostly lit boardwalk with pa the otherwise dark scene. A lone wave is moderately visible in the night view, however, the s	sserby is visually interesting and provides an atmo-	ospheric quality to

Visual Impact Assessment	Personnel: KAC	
	KOP: ACOAN OCR	Sky Gard
Proposed Conditions	Date: 26 February	2021
1. With the proposed project in place, rate the aesthetic quality/sensitivity of each resource.	urce on a score of 1 to 9 (1 liability to 9	distinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Score
	Water Resources:	4.5
	Landform:	4.5
	Vegetation:	4.5
	Land Use:	6
	User Activity:	6
 Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct) Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can be adjusted up or down based upon the Proposed Conditions view. 	Special Conditions:	3
	Total:	28.5
3. Comments:		
The red obstruction lights of the wind turbine nacelles are small red flashes on the horizon at 10.5 in such a large wind farm installation would be noticeable to the casual viewer against such a dark be taken into consideration that the viewing platform is in a highly developed casino area where th proximity than the wind farm.	sky despite the small scale of the lights. Ho	wever, it should



	,	Personnel: KAC		10 11 10	nont Personnel: KAC	
Visual Impact Assess	ment		2D Class Count	Visual Impact Assessr	nent	
		KOP: ACOAN OC			KOP: <u>ACO4N OCR Sky</u>	
Proposed Conditions - Compatil	bility and Contrast Rating	Date: <u>26 Februar</u>	ry 2021	Proposed Conditions	Date: <u>26 February 202</u>	
Noto: If	an element is not present in the view the	coars chauld be a 0 (as impact), ather	zuico.		box next to the description that most closely describes the visual prominence of the Project	t from
	hould be a whole number score.	score sribula be a b (no impacy, binem	wise,	the selected KOP.		
				Mark Mark Barra	B 1 11	
Rate the compatibility of the proposed project or	n a scale of 1 to 3 (1 compatible to 3 n	ot compatible)		Visibility Rating Visibility level 1. Visible only after extended,	Description An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person	_
Water Resources:	O Li	and Use: 1.5		close viewing; otherwise invisible.	who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	Ш
Landform:	O Use	r Activity: 1		Visibility level 2. Visible when scanning in the general direction of the study subject;	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could	
Vegetation:	0	Total: 2.5		otherwise likely to be missed by casual observers.	sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	V
5. Rate scale contrast of the proposed project on a				Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape telements.	
Water Resources:	O Li	and Use:		observers.	A 11-11-11-11-11-11-11-11-11-11-11-11-11-	
Landform:	O User	r Activity: 1		Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
Vegetation:	0	Total: 2		dominate the view because of its apparent size, for views in the general direction of the study subject.	anominon and insulincian size to occupy most or an occurrent a visible indic.	Ш
6. Rate spatial dominance of the proposed project	on a scale of 1 to 3 (1 subordinate, 2 of	co-dominant, 3 dominant)		Visibility level 5. Strongly attracts the visual	An object/phenomenon that is not large but contrasts with the surrounding landscape elements	
Water Resources:	O Li	and Use: 1.5		attention of views in the general direction of the study subject. Attention may be drawn	so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to strong contrasts in form, line, color, and texture,	_
Landform:	O Use	r Activity:		by the strong contrast in form, line, color, or texture, luminance, or motion.	bright light sources such as lighting and reflections! and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the	Ш
Vegetation:	0	Total: 2.5			study subject interferes noticeably with views of nearby landscape/seascape elements.	
7. Comments: Compatibility: The red blinking lights are a new comment	cial industrial addition to the view, however		t with other	Visibility level 5. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by turning one's head more than 45° from a direct view of the object. The object/phenomenon is the major focus of visual attention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, color, and tenture, bright light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.	
competing night-time light sources.						
Scale: It is impossible to determine the scale of the turbi	nes in the black sky.					
Spatial Dominance: The majority of the blinking red light right of the view where the lights are stacked on each of			ed hot spot in the far	9. Comments:		
				N/A		

ATLANTIC SHORES
offshore wind

Visual Impact Assessment	
Date: 2/26/21	Personnel: Jocelyn Gavitt
Landscape Similarity Zone: Casino District/City Center	Key Observation Point Name/Number: AC04N Ocean Casino
Key Observation Point (KOP) Familiarization	
Landscape/seascape, viewer, and related factors to be considered du	uring evaluation of the KOP are outlined below.
The effect of the proposed Project on these factors should be incorpc (proposed conditions). (This form is intended to record initial observa	orated into the scoring and comments on the VIA assessment form titions and should be completed quickly, taking no more than 5 minutes)
General elements of formal visual analysis to be considered	l include:
	objects and voids in the landscape that can be categorized by lude vegetation, landform, water, and sky. Some compositions, or feature-oriented, are more vulnerable to modifications than
of a landscape/seascape, as well as a project. Form refers t edge, outline, and surrounding space. Line refers to the patt or texture, usually evident as the edges of shapes or masse	compositional elements that define the perceived visual character to the shape of an object that appears unified, often defined by the eye follow when perceiving abrupt changes in form, color, is in the landscape/seascape. Texture, in this context, refers to which form, line, color, and texture of a project are similar to or sleascape is in primary determinant of visual impact.
 Spatial Dominance: The degree to which an object or lands and thus dominates seascape composition from a specific v 	scape/seascape element occupies space in a landscape/seascape riewpoint.
	elation to its surroundings can define the compatibility of its scale ikely to vary depending on the distance from which it is seen and
Principles of composition to be considered include:	
1. Focal Point	
physical characteristics. Focal points often contrast with the tend to draw a viewer's attention. Examples include promin	stand out and are particularly noticeable as a result of their sir surroundings in color, form, scale, or texture, and therefore end trees, mountains, or cultural features, such as a distinctive ed so as to obscure or compete with important existing focal points
Does this view contain a focal point? Yes N	0
If yes, briefly identify/describe:	
2. Order	
by displaying traditional or logical patterns of land use/deve this natural order may detract from scenic quality. When a r	etermined by natural processes. Cultural landscapes exhibit order algoment. Elements in the landscape that are inconsistent with new project is introduced to the landscape, intachess and order lors, and textures existing in the surrounding built or natural
Does this view contain a natural order? Yes If yes, how does the natural order affect the view?	No

Principles of composition, continued: 3. Visual Clutter Numerous unrelated built elements occurring within a view can create visual clutter (disrupting the natural order), which generally has an adverse effect on scenic quality. Does this view contain elements that contribute to visual clutter? Yes No If yes, how does the visual clutter affect the view? There are some lights and road in the foreground. 4. Movement Motion of existing and proposed elements in a view can attract viewer attention? Yes No (If the answer is yes, Note these elements in rating form comments) Factors affecting visual impact: 5. Duration of View Some views are seen as quick glimpses while driving along a roadway or hiking a trail, while others are seen for a more prolonged period of time, Longer duration views of a project, especially from significant aesthetic resources, have the greatest potential for visual impact. The duration of this view is: Short TermFleeting Long-term The frequency of this view is: Repeated Occasional 6. Atmospheric Conditions Clouds, precipitation, haze, and other ambient weather-related conditions can affect the visibility of an object or objects. These conditions are greately impact the visibility and contrast of project components with landscape/seescape elements and the design elements of form, line, color, texture, and scale. Conditions in this view can be described as: Clear Parity Cloudy Overcast Hazy Conditions that may increase/decrease visibility could be described as: More moisture in the atmosphere would likely decrease visibility in prefers to a viewing situation in which surlight is coming toward the observer from behind a feature or elements in a scene. Front lighting refers to a viewing situation in which surlight is coming toward the observer and falling directly upon the area being viewed. Side lighting refers to a viewing situation in which surlight is coming from behind the observer and falling directly upon the area being viewed. Side lighting refers to a viewing		
Principles of composition, continued: 3. Visual Clutter Numerous unrelated built elements occurring within a view can create visual clutter (disrupting the natural order), which generally has an adverse effect on scenic quality. Does this view contain elements that contribute to visual clutter?	Visual Impact Assessment	Personnel: Jocelyn Gavitt
3. Visual Clutter Numerous unrelated built elements occurring within a view can create visual clutter (disrupting the natural order), which generally has an adverse effect on scenic quality. Does this view contain elements that contribute to visual clutter?	•	KOP: ACO4N Ocean Casino
Numerous urrelated built elements occurring within a view can create visual clutter (disrupting the natural order), which generally has an adverse effect on scenic quality. Does this view contain elements that contribute to visual clutter? Yes No If yes, how does the visual clutter affect the view? There are some lights and road in the foreground. 4. Movement Motion of existing and proposed elements in a view can attract viewer attention. Does this view contain elements in motion that are likely to attract viewer attention. Does this view contain elements in motion that are likely to attract viewer attention? Yes No (If the answer is yes, Note these elements in rating form comments) Factors affecting visual impact: 5. Duration of View Some views are seen as quick glimpses while driving along a roadway or hiking a trail, while others are seen for a more prolonged period of time. Longer duration views of a project, especially from significant aesthetic resources, have the greatest potential for visual impact. The duration of this view is: Repeated Occasional 6. Atmospheric Conditions Clouds, precipitation, haze, and other ambient weather-related conditions can affect the visibility of an object or objects. These conditions can greatly impact the visibility and contrast of project components with landscape/seascape elements and the design elements of form, line, color, texture, and scale. Conditions in this view can be described as: Clear Partly Cloudy Overcast Hazy Conditions that may increase/decrease visibility could be described as: More moisture in the atmosphere would likely decrease visibility grefers to a viewing situation in which sunlight is coming from overfread or the side of the observer to a feature or elements in a scene. Front lighting refers to a viewing situation in which sunlight is coming from overfread or the side of the observer to a feature or elements in a scene. Lighting direction can have a significant effect on the visibility and contrast of landscape and proje	Principles of composition, continued:	Date: 2/26/21
adverse effect on scenic quality. Does this view contain elements that contribute to visual clutter?	3. Visual Clutter	
If yes, how does the visual clutter affect the view? 1. Movement Motion of existing and proposed elements in a view can attract viewer attention. Does this view contain elements in motion that are likely to attract viewer attention? Yes No (If the answer is yes, Note these elements in rating form comments) Factors affecting visual impact:		srupting the natural order), which generally has an
A. Movement Motion of existing and proposed elements in a view can attract viewer attention. Does this view contain elements in motion that are likely to attract viewer attention? Yes No (If the answer is yes, Note these elements in rating form comments) Factors affecting visual impact:	Does this view contain elements that contribute to visual clutter? Yes	No
Motion of existing and proposed elements in a view can attract viewer attention. Does this view contain elements in motion that are likely to attract viewer attention?	If yes, how does the visual clutter affect the view? There are some lights and road if	in the foreground.
Does this view contain elements in motion that are likely to attract viewer attention? Yes No (If the answer is yes, Note these elements in rating form comments) Factors affecting visual impact: 5. Duration of View Some views are seen as quick glimpses while driving along a roadway or hiking a trait, while others are seen for a more prolonged period of time. Longer duration views of a project, especially from significant aesthetic resources, have the greatest potential for visual impact. The duration of this view is: Short Term/Fleeting Long-term The frequency of this view is: Repeated Occasional 6. Atmospheric Conditions Clouds, precipitation, haze, and other ambient weather-related conditions can affect the visibility of an object or objects. These conditions can greatly impact the visibility and contrast of project components with landscape/seascape elements and the design elements of form, line, color, texture, and scale. Conditions in this view can be described as: Clouds in this view can be described as: Conditions that may increase/decrease visibility could be described as: More moisture in the atmosphere would likely decrease visibility 7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming toward the observer from behind a feature or elements in a scene. Front lighting refers to a viewing situation in which sunlight is coming from behind the observer and falling directly upon the area being viewed. Side lighting refers to a viewing situation in which sunlight is coming from overhead or the side of the observer to a feature or elements in a scene. Lighting direction can have a significant effect on the visibility and contrast of landscape and project elements. The relevant lighting condition can be described as: Described from the interventional value provide guidance in evaluating a project's visual impact on that resource. The characteristics of the resource had contribute to its scenic or recreational value provide guidance in eva	4. Movement	
Factors affecting visual impact: 5. Duration of View Some views are seen as quick glimpses while driving along a roadway or hiking a trail, while others are seen for a more prolonged period of time. Longer duration views of a project, especially from significant aesthetic resources, have the greatest potential for visual impact. The duration of this view is:	Motion of existing and proposed elements in a view can attract viewer attention.	
Factors affecting visual impact: 5. Duration of View Some views are seen as quick glimpses while driving along a roadway or hiking a trail, while others are seen for a more prolonged period of time. Longer duration views of a project, especially from significant aesthetic resources, have the greatest potential for visual impact. The duration of this view is: Short Term/Fleeting Long-term The frequency of this view is: Repeated Cocasional 6. Atmospheric Conditions Clouds, precipitation, haze, and other ambient weather-related conditions can affect the visibility of an object or objects. These conditions can greatly impact the visibility and contrast of project components with landscape/seascape elements and the design elements of form, line, color, texture, and scale. Conditions in this view can be described as: Clear Partly Cloudy Overcast Hazy Conditions that may increase/decrease visibility could be described as: More moisture in the atmosphere would likely decrease visibility 7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming toward the observer from behind a feature or elements in a scene. Front lighting refers to a viewing situation in which sunlight is coming from behind the observer and falling directly upon the area being viewed. Side lighting refers to a viewing situation in which sunlight is coming from overhead or the side of the observer to a feature or elements in a scene. Lighting direction can have a significant effect on the visibility and contrast of landscape and project elements. The relevant lighting condition can be described as: Descr	Does this view contain elements in motion that are likely to attract viewer attention	? ☑ Yes ☐ No
Some views are seen as quick glimpses while driving along a roadway or hiking a trail, while others are seen for a more prolonged period of time. Longer duration views of a project, especially from significant sesthetic resources, have the greatest potential for visual impact. The duration of this view is:	(If the answer is yes, Note these elements in rating form comments)	
Some views are seen as quick glimpses while driving along a roadway or hiking a trail, while others are seen for a more prolonged period of time. Longer duration views of a project, especially from significant aesthetic resources, have the greatest potential for visual impact. The duration of this view is:	Factors affecting visual impact:	
of time. Longer duration views of a project, especially from significant aesthetic resources, have the greatest potential for visual impact. The duration of this view is:	5. Duration of View	
The frequency of this view is: Repeated Cocasional 6. Atmospheric Conditions Clouds, precipitation, haze, and other ambient weather-related conditions can affect the visibility of an object or objects. These conditions can greatly impact the visibility and contrast of project components with landscape/seascape elements and the design elements of form, line, color, texture, and scale. Conditions in this view can be described as: Cocasional Cocasional Conditions in this view can be described as: Cocasional Cocas		
6. Atmospheric Conditions Clouds, precipitation, haze, and other ambient weather-related conditions can affect the visibility of an object or objects. These conditions can greatly impact the visibility and contrast of project components with landscape/seascape elements and the design elements of form, line, color, texture, and scale. Conditions in this view can be described as: Conditions that may increase/decrease visibility could be described as: More moisture in the atmosphere would likely decrease visibility 7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming toward the observer from behind a feature or elements in a scene. Front lighting refers to a viewing situation in which sunlight is coming from overhead or the side of the observer do a feature or elements in a scene. Front lighting refers to a viewing situation in which sunlight is coming from overhead or the side of the observer to a feature or elements in a scene. Lighting direction can have a significant effect on the visibility and contrast of landscape and project elements. The relevant lighting condition can be described as: backlit frontit fine is broad public consensus on the value of that particular resource. The characteristics of the resource that contribute to its scenic or recreational value provide guidance in evaluating a project's visual impact on that resource. Would viewers consider this location a valued scenic or recreational resource? Yes No	The duration of this view is: Short Term/Fleeting Long-term	
Clouds, precipitation, haze, and other ambient weather-related conditions can affect the visibility of an object or objects. These conditions can greatly impact the visibility and contrast of project components with landscape/seascape elements and the design elements of form, line, color, texture, and scale. Conditions in this view can be described as: Conditions that may increase/decrease visibility could be described as: Conditions that may increase/decrease visibility could be described as: More moisture in the atmosphere would likely decrease visibility 7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming toward the observer from behind a feature or elements in a scene. Front lighting refers to a viewing situation where the light source is coming from behind the observer and falling directly upon the area being viewed. Side lighting refers to a viewing situation in which sunlight is coming from overhead or the side of the observer to a feature or elements in a scene. Lighting direction can have a significant effect on the visibility and contrast of landscape and project elements. The relevant lighting condition can be described as: Described backlit frontit side-lit 8. Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that there is broad public consensus on the value of that particular resource. The characteristics of the resource that contribute to its scenic or recreational value provide guidance in evaluating a project's visual impact on that resource. Would viewers consider this location a valued scenic or recreational resource? Yes No	The frequency of this view is: Repeated Occasional	
can greatly impact the visibility and contrast of project components with landscape/seascape elements and the design elements of form, line, color, texture, and scale. Conditions in this view can be described as:	6. Atmospheric Conditions	
Conditions that may increase/decrease visibility could be described as: More moisture in the atmosphere would likely decrease visibility 7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming toward the observer from behind a feature or elements in a scene. Front lighting refers to a viewing situation where the light source is coming from behind the observer and falling directly upon the area being viewed. Side lighting refers to a viewing situation in which sunlight is coming from overhead or the side of the observer to a feature or elements in a scene. Lightling direction can have a significant effect on the visibility and contrast of landscape and project elements. The relevant lighting condition can be described as: backlit frontit side-it 8. Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that there is broad public consensus on the value of that particular resource. The characteristics of the resource that contribute to its scenic or recreational value provide guidance in evaluating a project's visual impact on that resource. Would viewers consider this location a valued scenic or recreational resource? Yes No	can greatly impact the visibility and contrast of project components with landscape/sea	
7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming toward the observer from behind a feature or elements in a scene. Front lighting refers to a viewing situation in which sunlight is coming from behind the observer and felling directly upon the area being viewed. Sole lighting refers to a viewing situation in which sunlight is coming from overhead or the side of the observer to a feature or elements in a scene. Lighting direction can have a significant effect on the visibility and contrast of landscape and project elements. The relevant lighting condition can be described as: backlit frontit side-lit 8. Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that there is broad public consensus on the value of that particular resource. The characteristics of the resource that contribute to its scenic or recreational value provide guidance in evaluating a project's visual impact on that resource. Would viewers consider this location a valued scenic or recreational resource? Yes No	Conditions in this view can be described as: ☑ Clear ☐ Partly Cloudy ☐ On	vercast Hazy
7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming toward the observer from behind a feature or elements in a scene. Front lighting refers to a viewing situation in which sunlight is coming from behind the observer and falling directly upon the area being viewed. Side lighting refers to a viewing situation in which sunlight is coming from overhead or the side of the observer has feature or elements in a scene. Lighting direction can have a significant effect on the visibility and contrast of landscape and project elements. The relevant lighting condition can be described as:		ture in the atmosphere would likely decrease
Front lighting refers to a situation where the light source is coming from behind the observer and falling directly upon the area being viewed. Side lighting refers to a viewing situation in which sunlight is coming from overhead or the side of the observer to a feature or elements in a scene. Lighting direction can have a significant effect on the visibility and contrast of landscape and project elements. The relevant lighting condition can be described as: backlit frontiit side-lit 8. Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that there is broad public consensus on the value of that particular resource. The characteristics of the resource that contribute to its scenic or recreational value provide guidance in evaluating a project's visual impact on that resource. Would viewers consider this location a valued scenic or recreational resource? Yes No		
8. Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that there is broad public consensus on the value of that particular resource. The characteristics of the resource that contribute to its scenic or recreational value provide guidance in evaluating a project's visual impact on that resource. Would viewers consider this location a valued scenic or recreational resource? Yes No	Front lighting refers to a situation where the light source is coming from behind the obsviewed. Side lighting refers to a viewing situation in which sunlight is coming from over	server and falling directly upon the area being rhead or the side of the observer to a feature or
Designation as a scenic or recreational resource is an indication that there is broad public consensus on the value of that particular resource. The characteristics of the resource that contribute to its scenic or recreational value provide guidance in evaluating a project's visual impact on that resource. Would viewers consider this location a valued scenic or recreational resource? We have a location of the resource of the resource of the recreation of the resource of t	The relevant lighting condition can be described as: 🛭 backlit 🗀 frontlit 🗀	side-lit
resource. The characteristics of the resource that contribute to its scenic or recreational value provide guidance in evaluating a project's visual impact on that resource. Would viewers consider this location a valued scenic or recreational resource?	8. Scenic or Recreational Value	
Herming and the either and for exercise or recognitional existence	resource. The characteristics of the resource that contribute to its scenic or recreations	
How would the site be used for scenic or recreational enjoyment? This is an oceanfront destination location for large amounts of people.	Would viewers consider this location a valued scenic or recreational resource? 🔽 Y	res 🔲 No
	How would the site be used for scenic or recreational enjoyment? This is an oceanfron	t destination location for large amounts of people.

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ATLANTIC SHORES

1 of 6

Visual Impact Assessment	Personnel: Jocelyn Gar	vitt	Visual Impact Assessment	Personnel: Jocelyn Gavi	itt
•	KOP: ACO4N Oce	an Casino_	Violat Impast Assessment	KOP: AC04N Ocean	n Casino
Existing Conditions	Date: 2/26/21		Proposed Conditions	Date: 2/26/21	
1. In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9	(1 liability to 9 distinct)		1. With the proposed project in place, rate the aesthetic quality/sensitivity of each resource	ce on a score of 1 to 9 (1 liability to 9 d	distinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rati be a whole number score.	ing should		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Score
		Score		Water Resources:	2
	Water Resources:	7		Landform:	3
	Landform:	5		Vegetation:	4.5
	Vegetation:	4.5		Land Use:	3
	Land Use:	5		User Activity:	3
	User Activity:	6			
Existing	Conditions #1 Total:	27.5	Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct) Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can		
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high density	у)		be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	5
Special Condition A. Does this zone contain any scenic, cultural, or	or historic landmarks?	3			
Special Condition B. Are there other aesthetic elements that	add to this resource?	2		Total:	20.5
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/poll	lution)				
Special Condition C. Is this zone free from	pollution and/or litter?	2	3. Comments:		
Existing Conditions #2 Total (Sum 2A through 2C)	7	This nighttime view is dominated by the red lights attached to the turbine field. They become the foc large quantity and the grid arrangement. The effect is significant, it seems as if there is land or an in		e mostly to the
Existing Conditions Grand Total (Sum # 3. Comments:	1 Total and #2 Total)	34.5			
This nighttime open water view has some infrastructure lighting in the foreground that captures the viewers the breaking waves visible and these will likely become the center of attention of the view.	attention. Likewise, the foregroun	d lighting makes			
ATLANTIC SHORES		3 of 6	ATLANTIC SHORES		4 of 6
offshore wind			offshore wind		. 010
Visual Impact Assessment	Personnel: Jocelyn Gar		Visual Impact Assessment	Personnel: Jocelyn Gavi	
•	KOP: ACO4N Oce	an Casino		KOP: AC04N Ocean	n Casino

Visual Impact Assessment	Personnel: Jocelyn Gavitt KOP: AC04N Ocean Casino	Visual Impact Assessr	ment Personnel: Jocelyn Gavitt KDP: AC04N Ocean	
Proposed Conditions - Compatibility and Contrast Note: If an element is not present in the rating should be a whole number score:	Rating Date: 2/26/21 e view the score should be a 0 (no impact), otherwise,	Proposed Conditions 8. Visibility Threshold Level - Check the	Date: 2/26/21 box next to the description that most closely describes the visual prominence of the Projection	
4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatibility of the proposed project on a scale of 1 to 3 (1 compatibility of the proposed project on a scale of 1 to 3 (1 compatibility of the proposed project on a scale of 1 to 3 (1 compatibility of the proposed project on a scale of 1 to 3 (1 compatibility of the proposed project on a scale of 1 to 3 (1 compatibility of the proposed project on a scale of 1 to 3 (1 compatibility of the proposed project on a scale of 1 to 3 (1 compatibility of the proposed project on a scale of 1 to 3 (1 compatibility of the proposed project on a scale of 1 to 3 (1 compatibility of the proposed project on a scale of 1 to 3 (1 compatibility of the proposed project on a scale of 1 to 3 (1 compatibility of the proposed project on a scale of 1 to 3 (1 compatibility of the proposed project on a scale of 1 to 3 (1 compatibility of the proposed project on a scale of 1 to 3 (1 compatibility of the proposed project on a scale of 1 to 3 (1 compatibility of the proposed project on a scale of 1 to 3 (1 compatibility of 1 compatibili	. ,	Visibility Rating Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	Description An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object	_
Water Resources: 3 Landform: 2 Vegetation: 0	Land Use: 2 User Activity: 2 Total: 9	Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	can be seen only after looking at it closely for an extended period. An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to Water Resources:	3 severe) Land Use: 3	Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	
Water Resources: 3 Landform: 2 Vegetation: 0	User Activity: 3 Total: 11	Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subord Water Resources: Landform: Vegetation:	Land Use: 3 User Activity: 3 Total: 12	Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to strong contrasts in form, line, color, and texture, bright light sources such as lighting and reflections and moving objects associated with the study subject may contribute substantially or drawing viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	
7. Comments: This numerous lights from the turbines become the major focus of this view during the night.		Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in file general direction, Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by turning one's head more than 45° from a direct view of the object. The object/phenomenon is the major toous of visual attention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, color, and tearture, tright light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.	√
		9. Comments: The proposed conditions are highly visible,	create strong contrast, and will strongly alter the image of this landscape.	



Visual Impact Assessment			Visual Impact Assessment	Personnel: KV
·			Visual impust / issuessinoite	KOP: ACO4N-Sky Garden
Date: 03-01-2021	Personnel: KV		Principles of composition, continued:	Date: 03-01-2021
Landscape Similarity Zone: Atlantic City	Key Observation Point Name/Number: ACO4N-Sky Gar	rden	3. Visual Clutter	Date. 03 07 2027
Key Observation Point (KOP) Familiarization	n		Numerous unrelated built elements occurring within a view can adverse effect on scenic quality.	create visual clutter (disrupting the natural order), which generally has an
Landscape/seascape, viewer, and related factors to be considered	during evaluation of the KOP are outlined below.		Does this view contain elements that contribute to visual cl	utter? Yes No
The effect of the proposed Project on these factors should be incompressed conditions). (This form is intended to record initial obser			If yes, how does the visual clutter affect the view?	
proposed conditions). (This form is interface to record initial obser	valions and should be completed quickly, taking no more than 5 i	ninutes)	4. Movement	
General elements of formal visual analysis to be consider	ed include:		Motion of existing and proposed elements in a view can attract	
their spatial arrangement. Basic landscape components in	of objects and voids in the landscape that can be categorized by nolude vegetation, landform, water, and sky. Some compositions,		Does this view contain elements in motion that are likely to (If the answer is yes, Note these elements in rating form co	
especially those that are distinctly focal, enclosed, detaile panoramic, canopied, or ephemeral landscapes.	d, or feature-oriented, are more vulnerable to modifications than			nunensy
· Form, Line, Color, and Texture: These are the four major	or compositional elements that define the perceived visual charac	ter	Factors affecting visual impact:	
of a landscape/seascape, as well as a project. Form refer	s to the shape of an object that appears unified, often defined by ath the eye follows when perceiving abrupt changes in form, colo	,	5. Duration of View	
or texture, usually evident as the edges of shapes or mas	ses in the landscape/seascape. Texture, in this context, refers to		Some views are seen as quick glimpses while driving along a of time. Longer duration views of a project, especially from sign	roadway or hiking a trail, while others are seen for a more prolonged period inificant aesthetic resources, have the greatest potential for visual impact.
the visual surface characteristics of an object. The extent contrast with these same elements in the existing landsca	to which form, line, color, and texture of a project are similar to or upe/seascape is a primary determinant of visual impact.		The duration of this view is: $\ \ \ \ \ \ \ \ \ \ \ \ \ $	Long-term
 Spatial Dominance: The degree to which an object or lar and thus dominates seascape composition from a specific 	ndscape/seascape element occupies space in a landscape/seasc c viewpoint.	cape	The frequency of this view is: 🗹 Repeated 🗹 Occasi	ional
	n relation to its surroundings can define the compatibility of its sca s likely to vary depending on the distance from which it is seen ar			d conditions can affect the visibility of an object or objects. These conditions nents with landscape/seascape elements and the design elements of form,
Principles of composition to be considered include:			Conditions in this view can be described as: <a>Clear Clear	☐ Partly Cloudy ☐ Overcast ☐ Hazy
1. Focal Point			Conditions that may increase/decrease visibility could be	described as: overcast and hazy conditions my diminish visibility
Certain natural or man-made landscape/seascape featur physical characteristics. Focal points often contrast with lend to draw a viewer's attention. Examples include pron	es sland out and are particularly noticeable as a result of their their surroundings in color, form, scale, or texture, and therefore inhent trees, mountains, or cultural features, such as a distinctive sited so as to obscure or compete with important existing focal po	pints	Front lighting refers to a situation where the light source is con viewed. Side lighting refers to a viewing situation in which sunl	oming toward the observer from behind a feature or elements in a scene, ming from behind the observer and falling directly upon the area being light is coming from overhead or the side of the observer to a feature or effect on the visibility and contrast of landscape and project elements.
Does this view contain a focal point? ✓ Yes	No			, , , , ,
If yes, briefly identify/describe: The boardwalk lighting dr.	aws attention in this view.		The relevant lighting condition can be described as:	cklit frontlit side-lit
by displaying traditional or logical patterns of land use/de this natural order may detract from scenic quality. When	determined by natural processes. Cultural landscapes exhibit or veolpoment. Elements in the landscape that are inconsistent with a new project is introduced to the landscape, intactness and orde colors, and textures existing in the surrounding built or natural		Scenic or Recreational Value Designation as a scenic or recreational resource is an indicatif resource. The characteristics of the resource that contribute to visual impact on that resource.	on that there is broad public consensus on the value of that particular its scenic or recreational value provide guidance in evaluating a project's
Does this view contain a natural order? ✓ Yes ☐ If yes, how does the natural order affect the view?	No No		Would viewers consider this location a valued scenic or recrea	ational resource? 🗹 Yes 🗆 No
the hard lines of the boardwalk draw in viewer attention and the looking out into the dark expanse.	softer texture of the dune vegetation draws the gaze to the shoreline before		How would the site be used for scenic or recreational enjoyme	The Atlantic City boardwalk is a recreation location families have been frequenting for generations, often going multiple times a year.
ATLANTIC SHORES offshore wind		1 of 6	ATLANTIC SHORES offshore wind	2

Visual Impact Assessment	Personnel: KV	
•	KOP: ACO4N-Sky	Garden
Existing Conditions	Date: 03-01-2021	
In the existing view rate the aesthetic quality/sensitivity of each resource on a s	core of 1 to 9 (1 liability to 9 distinct)	
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), be a whole number score.	otherwise, rating should	
		Score
	Water Resources:	6
	Landform:	7
	Vegetation:	5
	Land Use:	4
	User Activity:	4
	Existing Conditions #1 Total:	26
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 bein	g high density)	
Special Condition A. Does this zone contain any scenic	c, cultural, or historic landmarks?	2
Special Condition B. Are there other aesthetic ele	ments that add to this resource?	2
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 fre	ee of litter/pollution)	
Special Condition C. Is this zone	e free from pollution and/or litter?	1
Existing Conditions	#2 Total (Sum 2A through 2C)	5
Existing Conditions Grand To	tal (Sum #1 Total and #2 Total)	31

Water resources are open and expansive, typical of this region. The landform with high rolling dunes sloping down toward the shoreline and lightly fit by boardwalk lights provides a serene edge to development. Dune vegetation provides texture and natural order as a transition between developed boardwalk and sandy beach. Land use and user activity is average at Iris location but is balanced between the local residential activity and the intensely developed casino and hotel resorts that encourage tourism to remain within their structure.

ATLANTIC SHORES

Visual Impact Assessment	Personnel: KV	
The data in page 1 is a second in the second	KOP: ACOAN-Sky G	Garden
Proposed Conditions	Date: 03-01-2021	
With the proposed project in place, rate the aesthetic quality/sensitivity of each re-	source on a score of 1 to 9 (1 liability to 9 d	listinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Sco
one was, raing should be a more harmon score.	Water Resources:	3
	Landform:	5
	Vegetation:	5
	Land Use:	4
	User Activity:	3
	Total:	2
3. Comments:		
With the Project in place water resources are affected due to the quantity and expanse of the Vs slightly benefits from the very close proximity as the effect of stacking does not cluster lighting the feeling that the lights are often less intense than they may be at a location where stacked to intense. However, the breadth of the array invades a large expanse of the visual horizon. It wo at locean horizon in any direction and not catch a glimpse of the blinking in peripheral vision foreshortened and endosed by the expanse of ocean development. The lorg growing vegetation location is untilkely to be affected by this development. The currently existing large hotels and a	as closely as it might at a greater distance. This s urbine rows overlap more tightly, and mass lightin- uld be difficult, especially while lights are slowly I n. The landform of high dunes sloping to a flat sho n finds little affect. The high intensity tourism land	serves to prong to appear blinking, to loreline become duse at this y. However,

Personnel: KV



Visual Impact Assessi	ment Pe	ersonnel: KV	Visual Impact Assessi	ment	Personnel: KV
		KOP: ACO4N-Sky Garden			KOP: ACO4N-Sky Garden
Proposed Conditions - Compatib	oility and Contrast Rating	Date: <u>03-01-2021</u>	Proposed Conditions		Date: 03-01-2021
Note: If a	on element is not present in the view the score should on ould be a whole number score.	be a 0 (no impact), otherwise,		e box next to the description that most closely description	cribes the visual prominence of the Project from
Rate the compatibility of the proposed project on	a a scale of 1 to 3 (1 compatible to 3 not compatible	۵۱	Visibility Rating	Description	
			Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of vis who was unaware of it in advance and looking for it. Even	
Water Resources:	3 Land Use:	2	close viewing, otherwise invisione.	can be seen only after looking at it closely for an extended	
Landform: Vegetation:	3 User Activity:	14	Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but horizon or looking more closely at an area, can be detecte sometimes be noticed by casual observers; however, mos some active looking.	d without extended viewing. It could
5. Rate scale contrast of the proposed project on a			Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual	An object/phenomenon that can be easily detected after a most casual observers, but without sufficient size or contra seascape elements.	
Water Resources:	3 Land Use:	1	observers.	A 1: //	
Landform:	3 User Activity:	2	Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or	An object/phenomenon that is obvious and with sufficient s landscape/seascape elements, but with insufficient visual attention and insufficient size to occupy most of an observ	contrast to strongly attract visual
Vegetation:	Total:	12	does not strongly affract visual attention of dominate the view because of its apparent size, for views in the general direction of the study subject.	attention and insufficient size to occupy most of an observ	er s visuali nero.
6. Rate spatial dominance of the proposed project of	on a scale of 1 to 3 (1 subordinate, 2 co-dominant,	3 dominant)		An object/phenomenon that is not large but contrasts with	the common first lands are also as to
Water Resources:	3 Land Use:	2	Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn		ing viewer attention immediately and
Landform:	3 User Activity:	2	by the strong contrast in form, line, color, or texture, luminance, or motion.	bright light sources such as lighting and reflections and mo subject may contribute substantially to drawing viewer after study subject interferes noticeably with views of nearby lar	oving objects associated with the study ention. The visual prominence of the
Vegetation:	3 Total:	13	Ware Life Date Life Life		
7. Comments:			Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance.		rning one's head more than 45° from major focus of visual attention, and its . In addition to size, contrasts in form, ects associated with the study subject he visual prominence of the study
Turbines developed at this location are not compatible, he impact of land use and user activity is more variable due t groups and their activities often finding beach front as an	to the high intensity tourism development at this location,				
			9. Comments:		
			The visual prominence of the turbines detra	acts noticeably from views of other landscape elements.	

ATLANTIC SHORES offshore wind

Date: February 25, 2021	Personnel: Steve Breitzka
andscape Similarity Zone: Casino District / City Center	Key Observation Point Name/Number: ACO4N
	•
Key Observation Point (KOP) Familiarization	on
andscape/seascape, viewer, and related factors to be considere	d during evaluation of the KOP are outlined below.
	orporated into the scoring and comments on the VIA assessment form ervations and should be completed quickly, taking no more than 5 minutes;
General elements of formal visual analysis to be consider	ered include:
their spatial arrangement. Basic landscape components	of objects and voids in the landscape that can be categorized by include vegetation, landform, water, and sky. Some compositions, ed, or feature-oriented, are more vulnerable to modifications than
of a landscape/seascape, as well as a project. Form refe edge, outline, and surrounding space. Line refers to the or texture, usually evident as the edges of shapes or ma the visual surface characteristics of an object. The exten	jor compositional elements that define the perceived visual character ers to the shape of an object that appears unified, often defined by path the eye follows when perceiving abrupt changes in form, color, ssess in the landscape/seascape. Texture, in this context, refers to it to which form, line, color, and texture of a project are similar to or ape/seascape is a primary determinant of visual impact.
 Spatial Dominance: The degree to which an object or la and thus dominates seascape composition from a specific 	andscape/seascape element occupies space in a landscape/seascape fic viewpoint.
	in relation to its surroundings can define the compatibility of its scale is likely to vary depending on the distance from which it is seen and
Principles of composition to be considered include:	
1. Focal Point	
physical characteristics. Focal points often contrast with tend to draw a viewer's attention. Examples include pro	ures stand out and are particularly noticeable as a result of their their surroundings in color, form, scale, or texture, and therefore minent trees, mountains, or cultural features, such as a distinctive e sited so as to obscure or compete with important existing focal points
Does this view contain a focal point? 🗹 Yes 🗆	
If yes, briefly identify/describe: Pedestrian lights along to	the boardwalk create a bright spot in an otherwise dark scene.
2. Order	
Natural landscapes/seascapes have an underlying orde by displaying traditional or logical patterns of land use/or this natural order may detract from scenic quality. Wher	or determined by natural processes. Cultural landscapes exhibit order tevelopment. Elements in the landscape that are inconsistent with n a new project is introduced to the landscape, intactness and order c, colors, and textures existing in the surrounding built or natural

Visual Impact Assessment	Personnel: Steve Breitzka
1	KOP: ACO4N
Principles of composition, continued:	Date: February 25, 2021
3. Visual Clutter	
Numerous unrelated built elements occurring within a view can create visual clutte adverse effect on scenic quality.	er (disrupting the natural order), which generally has an
Does this view contain elements that contribute to visual clutter? $\ \square$ Yes	✓ No
If yes, how does the visual clutter affect the view?	
4. Movement	
Motion of existing and proposed elements in a view can attract viewer attention.	
Does this view contain elements in motion that are likely to attract viewer atter	ntion? 🗆 Yes 🗹 No
(If the answer is yes, Note these elements in rating form comments)	
Factors affecting visual impact:	
5. Duration of View	
Some views are seen as quick glimpses while driving along a roadway or hiking a of time. Longer duration views of a project, especially from significant aesthetic re	
The duration of this view is: Short Term/Fleeting Long-term	
The frequency of this view is: \square Repeated \square Occasional	
6. Atmospheric Conditions	
Clouds, precipitation, haze, and other ambient weather-related conditions can affican greatly impact the visibility and contrast of project components with landscap line, color, texture, and scale.	
Conditions in this view can be described as: Clear Partly Cloudy	Overcast Hazy
Conditions that may increase/decrease visibility could be described as: Cloud	ds are barely visible in the night sky.
7. Lighting Direction	
Backlighting refers to a viewing situation in which sunlight is coming toward the ol Front lighting refers to a situation where the light source is coming from behind th viewed. Side lighting refers to a viewing situation in which sunlight is coming from elements in a scene. Lighting direction can have a significant effect on the visibilit	e observer and falling directly upon the area being overhead or the side of the observer to a feature or
The relevant lighting condition can be described as:	□ side-lit
 Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that there is broz resource. The characteristics of the resource that contribute to its scenic or recreational impact on that resource. 	
Would viewers consider this location a valued scenic or recreational resource? $\ensuremath{\overline{\square}}$	☑ Yes □ No
How would the site be used for scenic or recreational enjoyment? View is from the	e Sky Garden of the Ocean Casino Resort.
ATLANTIC SHORES	2 of 6

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ATLANTIC SHORES
offshore wind

Visual Impact Assessment	Personnel: Steve Breit	tzka	Visual Impact Assessment	Personnel: Steve Breitzka	
	KOP: <u>AC04N</u>			KOP: ACO4N	
Existing Conditions	Date: February 2	5, 2021	Proposed Conditions	Date: <u>February 25, 20</u>	021
1. In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9	(1 liability to 9 distinct)		With the proposed project in place, rate the aesthetic quality/sensitivity of each r	esource on a score of 1 to 9 (1 liability to 9 dis	tinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rat be a whole number score.	ting should		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Score
		Score		Water Resources:	2
	Water Resources:	9		Landform:	2
	Landform:	6		Vegetation:	4.5
	Vegetation:	4.5		Land Use:	2
	Land Use:	9		User Activity:	2
	User Activity:	9			
Existing	Conditions #1 Total:	37.5	Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct) Note: Special Conditions score is taken directly from Existing Conditions #2 Total and car.		
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high density	y)		be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	3
Special Condition A. Does this zone contain any scenic, cultural, or	or historic landmarks?	3			
Special Condition B. Are there other aesthetic elements that	add to this resource?	3		Total:	15.5
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/poll	lution)				
Special Condition C. Is this zone free from	pollution and/or litter?	2	3. Comments:		
Existing Conditions #2 Total (Sum 2A through 2C)	8	The focus is effectively captured by the horizon where a steady band of red lights march acro coupled with blade rotation that will create an alternate and inconsistent second kind of blink. red lights. Some appear more intense than others given the spacing.		
Existing Conditions Grand Total (Sum # 3. Comments:	1 Total and #2 Total)	45.5	too agno. Some appear made mande man arriver great the spanning.		
The existing view is elevated, looking out over an unfocused darkness. The lit boardwalk is the only feature visible across the center of the view, defined by the black water on the bottom and the near black sky above through the sky.					
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Visual Impact Assessment	Personnel: Steve Breit	zka	Visual Impact Assessment	Personnel: Steve Breitzka	

Visual Impact Assessi	ment	Per	sonnel: Steve Breitzka KOP: ACO4N
Proposed Conditions - Compatib	ility and Cont	rast Rating	Date: <i>February 25, 20</i>
	n element is not presei ould be a whole numbe	nt in the view the score should by r score.	e a 0 (no impact), otherwise,
4. Rate the compatibility of the proposed project on	a scale of 1 to 3 (1 co	ompatible to 3 not compatible)	
Water Resources:	3	Land Use:	3
Landform:	2	User Activity:	3
Vegetation:	0	Total:	11
5. Rate scale contrast of the proposed project on a	scale of 1 to 3 (1 mini	mal to 3 severe)	
Water Resources:	3	Land Use:	3
Landform:	2	User Activity:	3
Vegetation:	0	Total:	11
6. Rate spatial dominance of the proposed project of	on a scale of 1 to 3 (1	subordinate, 2 co-dominant, 3	dominant)
Water Resources:	3	Land Use:	3
Landform:	2	User Activity:	3
Vegetation:	0	Total:	11
7. Comments:			

visibility i nreshold Level - Check the e selected KOP.	box next to the description that most closely describes the visual prominence of the Pro	ject from
Visibility Rating	Description	
/isibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for a extended period.	
/isibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
/isibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	
/isibility level 4. Plainly visible, so could tot be missed by casual observers, but loes not strongly attract visual attention or forminate the view because of its apparent ize, for views in the general direction of he study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape-beascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	С
/isibility level 5. Strongly attracts the visual attention of views in the general direction of he study subject. Attention may be drawn by the strong contrast in form, line, color, or exture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention is addition to strong contrasts in form, line, color, and texture, bright light sources such as lighting and reflections! and moving objects associated with the sub- subject may controlled substantially of arwainty elever attention. The visual promisence of the study subject interferes noticeably with views of nearby landscapelseascape elements.	
Irisibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture, urninance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by jurning one's head more than 45° from a direct view of the object. The object/phenomenon is the major focus of visual attention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, color, and testive, tight light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscapelesscape elements:	V

9. Commen

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The turbines do not detract noticeably from the views of other landscape / seascape elements but only because those elements are not clear at night. The red lights are the major focus because there is nothing else to focus on in this view. The large size is not height but width as the red lights extend across the majority of this view.



Visual Impact Assessment		Visu	ual Impact Assessment	Personnel: KAC
'	KAC		•	KOP: BHB01N Beach H HD
Date: <u>26 February 2021</u>	Personnel: KAC	P	rinciples of composition, continued:	Date: 26 February 2021
andscape Similarity Zone: Oceanfront Residential	Key Observation Point Name/Number: BHB01N Beach	H HD_	3. Visual Clutter	
Key Observation Point (KOP) Familiarization	n		adverse effect on scenic quality.	reate visual clutter (disrupting the natural order), which generally has an
andscape/seascape, viewer, and related factors to be considered	during evaluation of the KOP are outlined below.		Does this view contain elements that contribute to visual clu	tter? 🔲 Yes 🔽 No
The effect of the proposed Project on these factors should be incorproposed conditions). (This form is intended to record initial obser		ninutes)	If yes, how does the visual clutter affect the view? N/A	
			 Movement Motion of existing and proposed elements in a view can attract vi 	iewer attention
General elements of formal visual analysis to be consider	ed include:		- · · ·	
their spatial arrangement. Basic landscape components in	of objects and voids in the landscape that can be categorized by nclude vegetation, landform, water, and sky. Some compositions, d, or feature-oriented, are more vulnerable to modifications than		Does this view contain elements in motion that are likely to a (If the answer is yes, Note these elements in rating form cor.	
panoramic, canopied, or ephemeral landscapes.			actors affecting visual impact:	
	or compositional elements that define the perceived visual charact	ter	·	
edge, outline, and surrounding space. Line refers to the p	s to the shape of an object that appears unified, often defined by ath the eye follows when perceiving abrupt changes in form, color		 Duration of View Some views are seen as quick glimpses while driving along a re 	adway or hiking a trail, while others are seen for a more prolonged period
or texture, usually evident as the edges of shapes or mas	ses in the landscape/seascape. Texture, in this context, refers to to which form, line, color, and texture of a project are similar to or		of time. Longer duration views of a project, especially from signi	ificant aesthetic resources, have the greatest potential for visual impact.
contrast with these same elements in the existing landsca	pe/seascape is a primary determinant of visual impact.		The duration of this view is: Short Term/Fleeting	Long-term
 Spatial Dominance: The degree to which an object or lar and thus dominates seascape composition from a specific 	ndscape/seascape element occupies space in a landscape/seasca c viewpoint.	ape	The frequency of this view is: <a> Repeated <a> Occasio	inal
	relation to its surroundings can define the compatibility of its scal		6. Atmospheric Conditions	
within the existing seascape. Perception of project scale i other contextual factors.	s likely to vary depending on the distance from which it is seen an	id		conditions can affect the visibility of an object or objects. These conditions ints with landscape/seascape elements and the design elements of form,
Principles of composition to be considered include:			Conditions in this view can be described as:	Partly Cloudy Overcast Hazy
1. Focal Point			Conditions that may increase/decrease visibility could be de-	escribed as: N/A
physical characteristics. Focal points often contrast with tend to draw a viewer's attention. Examples include pron	es stand out and are particularly noticeable as a result of their their surroundings in color, form, scale, or texture, and therefore inhent trees, mountains, or cultural features, such as a distinctive sited so as to obscure or compete with important existing focal po		Front lighting refers to a situation where the light source is comi viewed. Side lighting refers to a viewing situation in which sunlig	ming toward the observer from behind a feature or elements in a scene. ng from behind the observer and falling directly upon the area being jht is coming from overhead or the side of the observer to a feature or fect on the visibility and contrast of landscape and project elements.
If yes, briefly identify/describe: N/A	NO			
			The relevant lighting condition can be described as: back	klit 🔲 frontlit 🔲 side-lit
by displaying traditional or logical patterns of land use/de this natural order may detract from scenic quality. When	determined by natural processes. Cultural landscapes exhibit ord velopment. Elements in the landscape that are inconsistent with a new project is introduced to the landscape, intactness and order colors, and textures existing in the surrounding built or natural		Scenic or Recreational Value Designation as a scenic or recreational resource is an indication resource. The characteristics of the resource that contribute to I visual impact on that resource.	n that there is broad public consensus on the value of that particular is scenic or recreational value provide guidance in evaluating a project's
Does this view contain a natural order? Yes If yes, how does the natural order affect the view?	No No		Would viewers consider this location a valued scenic or recreati	onal resource? 🗹 Yes 🔲 No
N/A			How would the site be used for scenic or recreational enjoymen	1? Beach Haven Historic District
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ATLANTIC SHOR			1 of 6	ATLANTIC SHOKES offshore wind		2 of 6
Visual Impact As	sessment	Personnel: KAC		Visual Impact Assessment	Personnel: KAC	
•		KOP: BHB01N Be	each H HD_		KOP: BHB01N Bead	ch H HD
Existing Conditions	c c	Date: 26 February	2021	Proposed Conditions	Date: 26 February 2	021
	 e aesthetic quality/sensitivity of each resource on a score of 1 to 	9 (1 liability to 9 distinct)		With the proposed project in place, rate the aesthetic quality/sensitivity of each of the proposed project in place.	and recourse on a coors of 1 to 0 /1 liability to 0 di	atinat)
=	ont in the view the score should be 4.5 of 9.0 (no impact), otherwise, r.	· ·		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impa		
be a whole number score.	, , , , , , , , , , , , , , , , , , , ,			otherwise, rating should be a whole number score.		Score
			Score		Water Resources:	4.5
		Water Resources:	4.5		Landform:	4.5
		Landform:	4.5		Vacatation	4.5
					Vegetation:	4.5
		Vegetation:	4.5		Land Use:	6
		Land Use:	7		User Activity:	6
		User Activity:	6			
	Existinç	Conditions #1 Total:	26.5	2. Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distin		
2. Respond to each question	below using a score of 0 to 3 (0 not present to 3 being high dens	ity)		Note: Special Conditions score is taken directly from Existing Conditions #2 Total and be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	3
Special Cor	ndition A. Does this zone contain any scenic, cultural,	or historic landmarks?	2		·	3
Specia	al Condition B. Are there other aesthetic elements tha	t add to this resource?	0		Total:	28.5
Respond to each question be	low using a score of 0 to 3 (0 littered/polluted to 3 free of litter/pol	ollution)				20.5
	Special Condition C. Is this zone free from	n pollution and/or litter?	1	3. Comments:		
	Existing Conditions #2 Total	(Sum 2A through 2C)	3	The red obstruction lights of the wind turbine nacelles are small red flashes on the horizo in such a large wind farm installation would be noticeable to the casual viewer against su in the left of the view where the nacelle lights are stacked on each other and it is a visua	ich a dark sky despite the small scale of the lights. Ther	e is one location
3. Comments:	Existing Conditions Grand Total (Sum	#1 Total and #2 Total)	29.5	right to the larger installation. In addition, the splay of the red lights caused by the constr and would be further accentuated by the blinking of the lights.		
Cultural Historic: Beach Haven	Historic District					
Aesthetic: Dark sky.						
Litter: Unseen.						
Summary of View: The existing view.	night sky is very dark but there are no stars or planets visible. There is n	o spatial understanding or elements	of scale in the			



Visual Impact Assessment	Personnel: KAC		Visual Impact Assessr	nent Personnel: KAC	
Tiodd: impaot / toocoomoni	KOP: <i>BHB01</i>	N Beach H HD_		KOP: <u>BHB011</u>	N Beach H HD
Proposed Conditions - Compatibility and	d Contrast Rating	ruary 2021	Proposed Conditions	Date: <u>26 Febr</u>	ruary 2021
	Ü		8. Visibility Threshold Level - Check the	e box next to the description that most closely describes the visual prominence of	f the Project from
Note: If an element is i rating should be a who	not present in the view the score should be a 0 (no impact), of ole number score.	tnerwise,	the selected KOP.		
Rate the compatibility of the proposed project on a scale of 1	1 to 3 (1 compatible to 3 not compatible)		Visibility Rating	Description	
Water Resources:	Land Use: 1.5	1	Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a persor who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
Landform: 0	User Activity: 2	1	Visibility level 2. Visible when scanning in	An object/phenomenon that is very small and/or faint, but when the observer is scanning the	
Vegetation: 0	Total: 3.5	j	the general direction of the study subject; otherwise likely to be missed by casual observers.	horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
5. Rate scale contrast of the proposed project on a scale of 1 to		,	Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	√
Water Resources: 0	Land Use: 1.5		Visibility level 4. Plainly visible, so could	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other	r
Landform: 0	User Activity: 2	<u> </u>	not be missed by casual observers, but does not strongly attract visual attention or	landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
Vegetation:	Total: 3.5]	dominate the view because of its apparent size, for views in the general direction of the study subject.		ш
6. Rate spatial dominance of the proposed project on a scale of	f 1 to 3 (1 subordinate, 2 co-dominant, 3 dominant)		Visibility level 5. Strongly attracts the visual	An object/phenomenon that is not large but contrasts with the surrounding landscape elements	
Water Resources:	Land Use: 2		attention of views in the general direction of the study subject. Attention may be drawn	so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to strong contrasts in form, line, color, and texture,	
Landform: 0	User Activity: 2		by the strong contrast in form, line, color, or texture, luminance, or motion.	bright light sources such as lighting and reflections! and moving objects associated with the stu- subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	idy
Vegetation:	Total: 4]	Visibility level 6. Dominates the view	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the	
7. Comments: Compatibility: The addition of the red blinking obstruction lights is a correlevels of residential light pollution since the houses generally sit back for		it is likely that there is low	because the study subject fils most of the visual field for views in Segneral direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance.	visual field, and views of it cannot be avoided except by turning one's head more than 45° from a direct view of the object. The object/phenomeno is the major focus of visual attention, and is large apparent size is a major factor in its view dominance. In addition to size, contrasts in form line, color, and texture, bright light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.	n s
Scale: While it is impossible to determine the scale of the turbines again the visual scale contrast for the viewer.	uinst the night sky, it is the scale of the installation itself and the co	onstruction layout triggers			
Spatial Dominance: The majority of the blinking red lights are small on is one red hot spot in the far left of the view where the lights are stacked on the the greater field of lights.			9. Comments: N/A		
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Visual Impact Assessment	
Date: 2/26/21	Personnel: Jocelyn Gavitt
Landscape Similarity Zone: Oceanfront Residential	Key Observation Point Name/Number: BHB01N Beach Haven
Key Observation Point (KOP) Familiarizat	ion
Landscape/seascape, viewer, and related factors to be conside	red during evaluation of the KOP are outlined below.
	corporated into the scoring and comments on the VIA assessment form servations and should be completed quickly, taking no more than 5 minutes)
General elements of formal visual analysis to be considered	dered include:
their spatial arrangement. Basic landscape component	nt of objects and voids in the landscape that can be categorized by is include vegetation, landform, water, and sky. Some compositions, ailed, or feature-oriented, are more vulnerable to modifications than
of a landscape/seascape, as well as a project. Form re edge, outline, and surrounding space. Line refers to th or texture, usually evident as the edges of shapes or the visual surface characteristics of an object. The ext	najor compositional elements that define the perceived visual character fers to the shape of an object that appears unified, often defined by e path the eye follows when perceiving abrupt changes in form, color, nasses in the landscape/seascape. Texture, in this context, refers to ent to which form, line, color, and texture of a project are similar to or scape/seascape is a primary determinant of visual impact.
 Spatial Dominance: The degree to which an object or and thus dominates seascape composition from a spe 	landscape/seascape element occupies space in a landscape/seascape cific viewpoint.
	ct in relation to its surroundings can define the compatibility of its scale le is likely to vary depending on the distance from which it is seen and
Principles of composition to be considered includ	e:
1. Focal Point	
physical characteristics. Focal points often contrast w tend to draw a viewer's attention. Examples include p	stures stand out and are particularly noticeable as a result of their ith their surroundings in color, form, scale, or texture, and therefore rominent trees, mountains, or cultural features, such as a distinctive be sited so as to obscure or compete with important existing focal points
Does this view contain a focal point? ☑ Yes ☐	□ No
If yes, briefly identify/describe: The tall beach lookou	t chair anchors this view.
2. Order	
by displaying traditional or logical patterns of land use this natural order may detract from scenic quality. Wh	der determined by natural processes. Cultural landscapes exhibit order i/development. Elements in the landscape that are inconsistent with en a new project is introduced to the landscape, intactness and order es, colors, and textures existing in the surrounding built or natural

Visual Impact Assessment	Personnel: Jocelyn Gavitt
·	KOP: BHB01N Beach Haven
Principles of composition, continued:	Date: 2/26/21
3. Visual Clutter	
Numerous unrelated built elements occurring within a view can create visual clutte adverse effect on scenic quality.	
Does this view contain elements that contribute to visual clutter?	□ No
If yes, how does the visual clutter affect the view? The fence line and chair in	the foreground attract one's attention.
4. Movement	
Motion of existing and proposed elements in a view can attract viewer attention.	
Does this view contain elements in motion that are likely to attract viewer atte	ntion? Ves No
(If the answer is yes, Note these elements in rating form comments)	
Factors affecting visual impact:	
5. Duration of View	
Some views are seen as quick glimpses while driving along a roadway or hiking a of time. Longer duration views of a project, especially from significant aesthetic re	
The duration of this view is: \square Short Term/Fleeting \checkmark Long-term	
The frequency of this view is: $\ \ \ \ \ \ \ \ \ \ \ \ \ $	
6. Atmospheric Conditions	
Clouds, precipitation, haze, and other ambient weather-related conditions can aff can greatly impact the visibility and contrast of project components with landscap line, color, texture, and scale.	
Conditions in this view can be described as: 🗹 Clear 🗆 Partly Cloudy 🕻	Overcast Hazy
Conditions that may increase/decrease visibility could be described as: Incre	ased atmospheric moisture would reduce visiblity
7. Lighting Direction	
Backlighting refers to a viewing situation in which sunlight is coming toward the o Front lighting refers to a situation where the light source is coming from behind th viewed. Side lighting refers to a viewing situation in which sunlight is coming from elements in a scene. Lighting direction can have a significant effect on the visibil	e observer and falling directly upon the area being overhead or the side of the observer to a feature or
The relevant lighting condition can be described as: backlit frontlit	side-lit
8. Scenic or Recreational Value	
Designation as a scenic or recreational resource is an indication that there is bror resource. The characteristics of the resource that contribute to its scenic or recre visual impact on that resource.	
Would viewers consider this location a valued scenic or recreational resource?	☑ Yes ☐ No
How would the site be used for scenic or recreational enjoyment? This area will be and views.	be used by nearby homeowners and visitors for recreation



Does this view contain a natural order? Yes No If yes, how does the natural order affect the view? The layering of shoreline, open water and horizon create a natural order...

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Visual Impact Assessment	Personnel: Jocelyn Gav		Visual Impact Assessment	Personnel: Jocelyn Gavi	
	KOP: BHB01N Bea	nch Haven_	-	KOP: BHB01N Bea	ch Haven_
Existing Conditions	Date: 2/26/21		Proposed Conditions	Date: 2/26/21	
1. In the existing view rate the aesthetic quality/sensitivity of each resource on	a score of 1 to 9 (1 liability to 9 distinct)		With the proposed project in place, rate the aesthetic quality/sensitivity of each res	ource on a score of 1 to 9 (1 liability to 9 (listinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impa- be a whole number score.	ct), otherwise, rating should		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact),		Score
be a whole number score.		Score	otherwise, rating should be a whole number score.	Water Resources:	1
	Water Resources:	6		Landform:	2
	Landform:	5		Vegetation:	4.5
	Vegetation:	4.5		Land Use:	2
	Land Use:	6		User Activity:	2
	User Activity:	6			
	Existing Conditions #1 Total:	27.5	Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct) Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can		
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 b	eing high density)		be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	4
Special Condition A. Does this zone contain any sce	nic, cultural, or historic landmarks?	3			
Special Condition B. Are there other aesthetic e	elements that add to this resource?	2		Total:	15.5
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3	free of litter/pollution)				1010
Special Condition C. Is this zo	one free from pollution and/or litter?	3	3. Comments:		
Existing Condition	ns #2 Total (Sum 2A through 2C)	8	The open ocean view is dominated by a very large field of turbine lights that create patterns of light stretch across the horizon and dominate the view.	this based on the perspective point of the grid	layout. The lights
	Total (Sum #1 Total and #2 Total)	35.5			
3. Comments: This is a pristine open water view that has some built elements in the foreground to capturiewer's focus over the dark open waters.	ure one's attention at night. The breaking waves will lil	kely be the			
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Visual Impact Assessment	Personnel: <u>Jocelyn Gav</u> KOP: <u>BHB01N Bea</u>		Visual Impact Assessment	Personnel: <u>Jocelyn Gavi</u> KOP: <u>BHB01N Bea</u>	
	Date: 2/26/21			Date: 2/26/21	

Visual I mpact Assess	ment		onnel: Jocelyn Gavitt KOP: BHB01N Beach Haven	Visual Impact Assessr	nent
	•	trast Rating ent in the view the score should be a	Date: 2/26/21 0 (no impact), otherwise,	Proposed Conditions 8. Visibility Threshold Level - Check the the selected KOP.	box next to the description the
I. Rate the compatibility of the proposed project of	on a scale of 1 to 3 (1	compatible to 3 not compatible)		Visibility Rating	
Water Resources:	3	Land Use:	3	Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near who was unaware of it in advance a can be seen only after looking at it
Landform: Vegetation:	0	User Activity: Total:	10	Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very horizon or looking more closely at a sometimes be noticed by casual ob some active looking.
5. Rate scale contrast of the proposed project on		,		Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be most casual observers, but without seascape elements.
Water Resources:	3	Land Use:	3	Visibility level 4. Plainly visible, so could	An object/phenomenon that is obvi
Vegetation:	0	User Activity: Total:	12	not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	landscape/seascape elements, but attention and insufficient size to occ
i. Rate spatial dominance of the proposed projec	t on a scale of 1 to 3 (1 subordinate, 2 co-dominant, 3 d	ominant)	Visibility level 5. Strongly attracts the visual	An object/phenomenon that is not la
Water Resources:	3	Land Use:	3	attention of views in the general direction of the study subject. Attention may be drawn	so strongly that it is a major focus of tending to hold that attention. In ad-
Landform:	3	User Activity:	3	by the strong contrast in form, line, color, or texture, luminance, or motion.	bright light sources such as lighting subject may contribute substantially study subject interferes noticeably
Vegetation:	0	Total:	12	Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture,	An object/phenomenon with strong visual field, and views of it cannot be a direct view of the object. The object large apparent size is a major factor.
7. Comments:				luminance, or motion may contribute to view dominance.	line, color, and texture, bright light may contribute substantially to draw subject detracts noticeably from vie

Visibility Rating	Description	
risibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
fisibility level 2. Visible when scanning in the general direction of the study subject; therwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
risibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual ibservers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	
/isibility level 4. Plainly visible, so could tot be missed by casual observers, but loss not strongly attract visual attention or forminate the view because of its apparent ize, for views in the general direction of he study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
/isibility level 5. Strongly attracts the visual ttention of views in the general direction of he study subject. Attention may be drawn by the strong contrast in form, line, color, or exture, luminance, or motion.	An objectiphenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to strong contrasts in form, line, color, and texture, bright light sources such as lighting and reflections! and moving objects associated with the study subject may contribute substantially of warmay review relation. The visual promisence of the study subject interferes noticeably with views of nearby landscape-seascape elements.	
/isibility level 6. Dominates the view because the study subject fills most of the issual field for views in its general direction, strong contrasts in form, line, color, texture, uninance, or motion may contribute to riew dominance.	An objectiphenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided accept by turning one's head more than 45° from a direct view of the object. The object/phenomenon is the major focus of visual attention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, time, color, and tearture, furgit light access and more) opecies associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject deliracts noticeably from views of other landscape Seascape elements.	✓
Comments:		
	. The darkened conditions amplify the presence of the turbine lights.	



Visual Impact Assessment		Visual Impact Assessment	Personnel: KV
Date: 03-01-2021	Personnel: KV		KOP: BHB01N-Beach Have
		Principles of composition, continued:	Date: 03-01-2021
Landscape Similarity Zone: <u>Residential Oceanfront</u>	Key Observation Point Name/Number: BHB01N-Beach H.		the state of the s
Key Observation Point (KOP) Familiarizati	on	Numerous unrelated built elements occurring within a view can create adverse effect on scenic quality.	
Landscape/seascape, viewer, and related factors to be consider	ed during evaluation of the KOP are outlined below.	Does this view contain elements that contribute to visual clutter?	☐ Yes ☑ No
	corporated into the scoring and comments on the VIA assessment form servations and should be completed quickly, taking no more than 5 mir	inutes)	
, ,	, , , , , , , , , , , , , , , , , , , ,	4. Movement Motion of existing and proposed elements in a view can attract viewer.	ottention
General elements of formal visual analysis to be consider	lered include:		
	nt of objects and voids in the landscape that can be categorized by s include vegetation, landform, water, and sky. Some compositions,	Does this view contain elements in motion that are likely to attract	
	iled, or feature-oriented, are more vulnerable to modifications than	(If the answer is yes, Note these elements in rating form comment	s)
	ajor compositional elements that define the perceived visual character	Factors affecting visual impact:	
of a landscape/seascape, as well as a project. Form re-	fers to the shape of an object that appears unified, often defined by	5. Duration of View	
	e path the eye follows when perceiving abrupt changes in form, color, asses in the landscape/seascape. Texture, in this context, refers to	Some views are seen as quick glimpses while driving along a roadwa of time. Longer duration views of a project, especially from significant	
the visual surface characteristics of an object. The exte	nt to which form, line, color, and texture of a project are similar to or scape/seascape is a primary determinant of visual impact.	The duration of this view is: Short Term/Fleeting Long-	
 Spatial Dominance: The degree to which an object or and thus dominates seascape composition from a spec 	landscape/seascape element occupies space in a landscape/seascap iffic viewpoint.	pe The frequency of this view is: ☑ Repeated ☐ Occasional	
	t in relation to its surroundings can define the compatibility of its scale e is likely to vary depending on the distance from which it is seen and		
Principles of composition to be considered include	2	Conditions in this view can be described as: ☑ Clear ☐ PartI	y Cloudy Overcast Hazy
1. Focal Point		Conditions that may increase/decrease visibility could be describ	ed as: Overcast/hazy nights will find a decrease in visibility.
physical characteristics. Focal points often contrast wil tend to draw a viewer's attention. Examples include pr lighthouse. If possible, a proposed project should not t in the landscape/seascape.	tures stand out and are particularly noticeable as a result of their in their surroundings in color, form, scale, or texture, and therefore ominent frees, monutains, or cultural features, such as a distinctive se sited so as to obscure or compete with important existing focal point	7. Lighting Direction Backlighting refers to a viewing situation in which sunlight is coming to Front lighting refers to a situation where the light source is coming from the sevend. Sitel lighting refers to a stream gl	m behind the observer and falling directly upon the area being coming from overhead or the side of the observer to a feature or
Does this view contain a focal point? Ves			
	r enough that it acts as a focus in dim lighting, but sound (ocean) may be a true focus	The relevant lighting condition can be described as: backlit] frontlit ☐ side-lit
by displaying traditional or logical patterns of land use, this natural order may detract from scenic quality. Whe	ter determined by natural processes. Cultural landscapes exhibit order development. Elements in the landscape that are inconsistent with en a new project is introduced to the landscape, intactness and order ss, colors, and textures existing in the surrounding built or natural	f 8. Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that i resource. The characteristics of the resource that contribute to its sce visual impact on that resource.	
Does this view contain a natural order? Yes If yes, how does the natural order affect the view?		Would viewers consider this location a valued scenic or recreational n	esource? ☑ Yes ☐ No
	hen visual cues are not reliable the viewer moves through a space with expectation of notos minimal visibility alludes to natural order creating anticipation of whats next.	How would the site be used for scenic or recreational enjoyment?	nis location is within the Beach Haven Historic District
ATLANTIC SHORES offshore wind		1 of 6 ATLANTIC SHORES offshore wind	

Visual Impact Assessment	Personnel: KV	
	KOP: BHB01N-Bea	ach Have
Fulchian Conditions	Date: 03-01-2021	
Existing Conditions 1. In the existing view rate the aesthetic quality/sensitivity of each resource on a score	of 1 to 0 (1 liability to 0 dictinct)	
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), other		
be a whole number score.		
		Score
	Water Resources:	6
	Landform:	7
	Vegetation:	5
	Land Use:	6
	User Activity:	6
Ex	cisting Conditions #1 Total:	30
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being hig	h density)	
Special Condition A. Does this zone contain any scenic, cul	ltural, or historic landmarks?	2
Special Condition B. Are there other aesthetic elemen	ts that add to this resource?	2
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of I	litter/pollution)	
Special Condition C. Is this zone free	e from pollution and/or litter?	3
Existing Conditions #2	Total (Sum 2A through 2C)	7
Existing Conditions Grand Total (: 3. Comments:	Sum #1 Total and #2 Total)	37
Movement attracting viewer attention: in the dim lighting movement is not visible, but the sound of	crashing waves will attract viewer attention.	
This night view finds limited visibility, but the experience of this low visibility will increase the use o proximity of water resources will be apparent from crashing waves, wind gusts, and salty ocean so unique qualities and is expressed by the highest scoring in the average range. Landform in the vie experience the scene from the upper landing of an elevated ramp, or to walk down to the waterline the sandy shore. Vegetation in this scene is difficult to distinguish and subtle even in daylight. The Land use and user activity are centered on tourism and residential uses. Access is available to all.	cents. While this is typical of the region it is an ew, while difficult to see is experienced by an e and find a more intimate experience with the experience of the vegetation at this lighting I	n experience w ability to e ocean meetir

ATLANTIC SHORES

Visual Impact Assessment	Personnel: KV	
Visual impuot / issossinoni	KOP: BHB01N-Bea	ch Have
Proposed Conditions	Date: 03-01-2021	
With the proposed project in place, rate the aesthetic quality/sensitivity of each resort	urce on a score of 1 to 9 (1 liability to 9 c	listinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.	, , , , , , , , , , , , , , , , , , , ,	Sco
	Water Resources:	4
	Landform:	5
	Vegetation:	5
	Land Use:	5
	User Activity:	3
	f 0 to 9 (0 liability to 9 distinct) visting Conditions #2 Total and can dillions view. Special Conditions: Total:	_ 7
	lotal:	29
3. Comments:		
Blinking of lights at a slow consistent speed, and spanning such a stretch of horizon will give a hig are impacted by the quantity, expanse, and stacking of the WTGs and their lighting. The WTG ligh appear as multiple bursts on the horizon reminiscent of a fireworks pattern. At this distance the cut appear bright and more dramalic than at locations colore to the turbines. The wide breadth of the while not directing the gaze toward some part of the array. This becomes a liability for water resou an emphasis on Bed & Breadkast businesses preserving a late 19th century resort community. Who near term, user groups may determine that a beach further from this view provides the cocaen expe shoreline backed by tall dunes my be foreshortened and gain a more closed in feeling with the wall	nting, with the repetition of aligned rows at reg ustering of individual lights due to stacking cau array on the ocean horizon makes it difficult to urces and user activity. The land use in this his life it is unlikely that this use will be drastically erience they are more accustomed to. The so	ular intervals use them to view the oc storic district changed in

Visual Impact Assessment	Personnel: KV	Visual Impact Assessr		
•	KOP: <u>BHB01N-Beach Have</u> ■		KOP: <u>BHB01N-Beach H.</u>	ave.
Proposed Conditions - Compatibility and Co	ntrast Rating	Proposed Conditions	Date: <u>03-01-2021</u>	
Note: If an element is not pre rating should be a whole num	sent in the view the score should be a 0 (no impact), otherwise, ther score.	8. Visibility Threshold Level - Check the the selected KOP.	e box next to the description that most closely describes the visual prominence of the Project	from
Rate the compatibility of the proposed project on a scale of 1 to 3 (compatible to 3 not compatible)	Visibility Rating	Description	
Water Resources: 3	Land Use: 3	Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
Landform: 3 Vegetation: 3	User Activity: 3 Total: 15	Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An objectlyhenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
Rate scale contrast of the proposed project on a scale of 1 to 3 (1 m Water Resources:		Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An objectlyhenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	
Water Resources: 3 Landform: 3 Vegetation: 3	Land Use: 3 User Activity: 3 Total: 15	Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
i. Rate spatial dominance of the proposed project on a scale of 1 to 3	(1 subordinate, 2 co-dominant, 3 dominant)	the study subject. Visibility level 5. Strongly attracts the visual	An object/phenomenon that is not large but contrasts with the surrounding landscape elements	
Water Resources: 3 Landform: 3 Vegetation: 3	Land Use: 3 User Activity: 3 Total: 15	visionly level 3. Strongly amarks the visual attention of views in the general diffection of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	as stressly that it is a maje focus of year disclaims. So, the winter absorbed making the control of the contro	
Comments:	15	Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual faeld, and views of it cannot be avoided except by turning one's head more than 45° from a direct view of the object. The object/phenomenon is he many focus or visual altention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, color, and tecture, tripfit light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject detacts not object abort sources with the study subject detacts not object abort sources with the study subject detacts not object abort sources with the study subject detacts not object abort sources of other landscapedsescape elements.	√
The expanse of turbine lighting in this scene is not compatible and has a seve	scale contrast, and will dominant the view in the presented conditions.			
		9. Comments: The turbine array rests on a large expanse	of the open horizon. the distraction of slowly flashing lights will become difficult to turn away from.	

Visual Impact Assessment	
Date: <i>February 25, 2021</i>	Personnel: Steve Breitzka
Landscape Similarity Zone: Oceanfront Residential	Key Observation Point Name/Number: BHB01N
Key Observation Point (KOP) Familiarization	n
Landscape/seascape, viewer, and related factors to be considered	during evaluation of the KOP are outlined below.
	rporated into the scoring and comments on the VIA assessment form revalions and should be completed quickly, taking no more than 5 minutes)
General elements of formal visual analysis to be consider	red include:
their spatial arrangement. Basic landscape components in	of objects and voids in the landscape that can be categorized by nclude vegetation, landform, water, and sky. Some compositions, d, or feature-oriented, are more vulnerable to modifications than
of a landscape/seascape, as well as a project. Form refer edge, outline, and surrounding space. Line refers to the p or texture, usually evident as the edges of shapes or mas	or compositional elements that define the perceived visual character s to the shape of an object that appears unified, often defined by alth the eye follows when perceiving abrupt changes in form, color, ses in the landscape/seascape. Texture, in this context, refers to to which form, line, color, and texture of a project are similar to or spe/seascape is a primary determinant of visual impact.
 Spatial Dominance: The degree to which an object or lar and thus dominates seascape composition from a specific 	ndscape/seascape element occupies space in a landscape/seascape c viewpoint.
	n relation to its surroundings can define the compatibility of its scale s likely to vary depending on the distance from which it is seen and
Principles of composition to be considered include:	
1. Focal Point	
physical characteristics. Focal points often contrast with I tend to draw a viewer's attention. Examples include prom	res stand out and are particularly noticeable as a result of their their surroundings in color, form, scale, or texture, and therefore injent trees, mountains, or cultural features, such as a distinctive sited so as to obscure or compete with important existing focal points
Does this view contain a focal point? 🗹 Yes 🗆	
If yes, briefly identify/describe: The lifeguard chair become	nes a focal point only because it is white in an otherwise dark landscape.
2. Order	
by displaying traditional or logical patterns of land use/de this natural order may detract from scenic quality. When	determined by natural processes. Cultural landscapes exhibit order vevelopment. Elements in the landscape that are inconsistent with a new project is introduced to the landscape, intactness and order colors, and textures existing in the surrounding built or natural
Does this view contain a natural order? $\ \square$ Yes $\ \square$ If yes, how does the natural order affect the view?	□ No

ATLANTIC SHORES PRINT DO	CUMENT TO PDF	6 of 6
Visual Impact Assessment	Personnel: Steve Breitzka	
. Iouan III. puoti 1000000.	КОР: <i>ВНВ01N</i>	
Principles of composition, continued:	Date: February 25, 2021	
 Visual Clutter Numerous unrelated built elements occurring within a view can create adverse effect on scenic quality. 	e visual clutter (disrupting the natural order), which generally has ar	1
Does this view contain elements that contribute to visual clutter?	☐ Yes ☑ No	
If yes, how does the visual clutter affect the view?	dly any ambient light to illuminate the context.	
4. Movement		
Motion of existing and proposed elements in a view can attract viewe	r attention.	
Does this view contain elements in motion that are likely to attract	t viewer attention? 🗹 Yes 🗌 No	
(If the answer is yes, Note these elements in rating form comme	nts)	
Factors affecting visual impact:		
5. Duration of View		
Some views are seen as quick glimpses while driving along a roadw of time. Longer duration views of a project, especially from significar		
The duration of this view is: Short Term/Fleeting Long	ı-term	
The frequency of this view is: 🗹 Repeated 🗖 Occasional		
6. Atmospheric Conditions		
Clouds, precipitation, haze, and other ambient weather-related cond can greatly impact the visibility and contrast of project components was line, color, texture, and scale.		
Conditions in this view can be described as: Clear Par	rtly Cloudy 🔲 Overcast 🔲 Hazy	
Conditions that may increase/decrease visibility could be descri	bed as: Clouds are barely visible.	
7. Lighting Direction		
Backlighting refers to a viewing situation in which sunlight is coming Front lighting refers to a situation where the light source is coming in viewed. Side lighting refers to a viewing situation in which sunlight is elements in a scene. Lighting direction can have a significant effect.	om behind the observer and falling directly upon the area being coming from overhead or the side of the observer to a feature or	
The relevant lighting condition can be described as:	☐ frontlit ☐ side-lit	
8. Scenic or Recreational Value		
Designation as a scenic or recreational resource is an indication tha resource. The characteristics of the resource that contribute to its so visual impact on that resource.		S
Would viewers consider this location a valued scenic or recreational	resource? 🗹 Yes 🗖 No	
	There are residences along the beach presumably to take advantage of the view and the amenities here.	
ATLANTIC SHORES		2 of 6

 \checkmark



ATLANTIC SHORES offshore wind

Visual Impact Assessment	Personnel: Steve Breitz	rka	Visual Impact Assessment	Personnel: Steve Breitzka	3
•	KOP: BHB01N		Visual impuet / issessinent	KOP: BHB01N	
Existing Conditions	Date: February 25	5, 2021	Proposed Conditions	Date: February 25, 2	<u>?021</u>
1. In the existing view rate the aesthetic quality/sensitivity of each resource on a score of	1 to 9 (1 liability to 9 distinct)		With the proposed project in place, rate the aesthetic quality/sensitivity of each res	source on a score of 1 to 9 (1 liability to 9 dis	stinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherw be a whole number score.	ise, rating should		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Score
		Score		Water Resources:	1
	Water Resources:	8		Landform:	5
	Landform:	5		Vegetation:	5
	Vegetation:	5		Land Use:	1
	Land Use:	8		User Activity:	1
	User Activity:	8			
Exis	sting Conditions #1 Total:	34	Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct) Note: Special Conditions score is taken directly from Existing Conditions \$2 Total and can		
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high	density)		hole. Special conditions score is taken directly from Existing Conditions #2 Total and Carl be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	1
Special Condition A. Does this zone contain any scenic, culture	ıral, or historic landmarks?	1			
Special Condition B. Are there other aesthetic elements	that add to this resource?	0		Total:	14
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litt	er/pollution)				
Special Condition C. Is this zone free	from pollution and/or litter?	1	3. Comments:		
Existing Conditions #2 To	otal (Sum 2A through 2C)	2	The turbines are only visible due to the red lights; the structure and blades disappear in the darl each other. When they are more spread out, they appear like a traffic jam of brake lights. The lights add a band of red lights scattered across the horizon, varying in height and, although		
Existing Conditions Grand Total (Signal 3. Comments:	um #1 Total and #2 Total)	36	blades. The turbine stretch is accentuated by the lights, identifying each structure across the m		war are rotating
The existing view is visually impacting only because of the darkness. There are few features that all and the low white surf as it hits the beach beyond. The horizon is barely visible in the distance below auditory benefit and less visual at this time of day.					
ATLANTIC SHORES offshore wind		3 of 6	ATLANTIC SHORES offshore wind		4 of
	D. Ctovo Proits	rko.		Ctovo Proitzka	

Visual Impact Assessment	ersonnel: Steve Breitzka	Visual Impact Assessr	ment Personnel: Steve Breitzka
	KOP: <u>BHB01N</u>		KOP: <u>BHB01N</u>
Proposed Conditions - Compatibility and Contrast Rating	Date: <u>February 25, 2021</u>	Proposed Conditions 8. Visibility Threshold Level - Check th	Date: February 25, 2021 e box next to the description that most closely describes the visual prominence of the Project from
Note: If an element is not present in the view the score should rating should be a whole number score.	be a 0 (no impact), otherwise,	the selected KOP.	
4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not compatible	e)	Visibility Rating	Description
Water Resources: 3 Land Use:	3	Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.
Landform: 1 User Activity:	3	Visibility level 2. Visible when scanning in the general direction of the study subject;	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could
Vegetation: 1 Total:	11	otherwise likely to be missed by casual observers.	sometimes be noticed by casual observers; however, most people would not notice if without some active looking.
Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) Water Resources: Land Use:		Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.
	3	Visibility level 4. Plainly visible, so could	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other
Landform: 1 User Activity: Vegetation: 1 Total:	11	not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.
6. Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dominant,	3 dominant)	Visibility level 5. Strongly attracts the visual	An object/phenomenon that is not large but contrasts with the surrounding landscape elements
Water Resources: 3 Land Use:	3	attention of views in the general direction of the study subject. Attention may be drawn	so strongly that it is a major focus of visual attention, drawing viewer attention immediately and
Landform: 3 User Activity:	3	by the strong contrast in form, line, color, or texture, luminance, or motion.	tenting of note that artificing and reflections and moving doubles at morting feet cases, and restudy, highlight light sources such as lighting and reflections and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscapelseascape elements.
Vegetation: 3 Total:	15	Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture,	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by turning one's head more than 45° from a direct view of the object. The object/phenomenon is the major focus of visual attention, and its large apparent sis is a major factor in its view dominance, in addition to six, contrasts in form,
7. Comments:		luminance, or motion may contribute to view dominance.	line, color, and lexture, bright light sources and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.
The turbines are invisible at night until the red light blinks. Then they cannot be missed as the lights are the bright There is nothing to compare them too and nothing to drown out their intensity. Ambient light behind the viewer man the water.			
		9. Comments:	



There is a fine line between the visibility levels here as the turbines go from invisible to obvious every two seconds. There is a strong contrast and then nothing, repealed.

/isual Impact Assessment	Visual Impact Assessment Personnel: KAC
vate: 26 February 2021 Personnel: KAC	KOP: <u>LATO1N EBF NWR</u>
	Principles of composition, continued: Date: <u>26 February 2021</u>
andscape Similarity Zone: <u>Dredged Lagoon/Salt Marsh</u> Key Observation Point Name/Number: <u>LATO1N EBF NWR</u>	 Visual Clutter Numerous unrelated built elements occurring within a view can create visual clutter (disrupting the natural order), which generally has an
Key Observation Point (KOP) Familiarization	adverse effect on scenic quality.
andscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.	Does this view contain elements that contribute to visual clutter? Yes No
he effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes)	If yes, how does the visual clutter affect the view? NA
	Movement Motion of existing and proposed elements in a view can attract viewer attention.
General elements of formal visual analysis to be considered include:	
 Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions, especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than 	Does this view contain elements in motion that are likely to attract viewer attention? ☐ Yes ☑ No (If the answer is yes, Note these elements in rating form comments)
panoramic, canopied, or ephemeral landscapes.	Factors affecting visual impact:
 Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by 	·
edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color,	5. Duration of ViewSome views are seen as quick glimpses while driving along a roadway or hiking a trail, while others are seen for a more prolonged period
or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or	of time. Longer duration views of a project, especially from significant aesthetic resources, have the greatest potential for visual impact.
contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.	The duration of this view is: ☑ Short Term/Fleeting ☐ Long-term
 Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint. 	The frequency of this view is: ☐ Repeated ☑ Occasional
• Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale	6. Atmospheric Conditions
within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors.	Clouds, precipitation, haze, and other ambient weather-related conditions can affect the visibility of an object or objects. These conditions can greatly impact the visibility and contrast of project components with landscape/seascape elements and the design elements of form, line, color, texture, and scale.
Principles of composition to be considered include:	Conditions in this view can be described as: Clear Partly Cloudy Overcast Hazy
1. Focal Point	Conditions that may increase/decrease visibility could be described as: N/A
Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their	7. Lighting Direction
physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore tend to draw a viewer's attention. Examples include prominent trees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape.	Backlighting refers to a viewing situation in which sunlight is coming toward the observer from behind a feature or elements in a scene. Front lighting refers to a situation where the light source is coming from behind the observer and falling directly upon the area being viewed. Side lighting refers to a viewing situation in which sunlight is coming from overhead or the side of the observer to a feature or elements in a scene. Lighting direction can have a significant effect on the visibility and contrast of landscape and project elements.
Does this view contain a focal point? ☐ Yes ☑ No	distribute in a section. Eighting dissociant curricular of a agrimicular of total violating and contract of introduction introduction.
If yes, briefly identify/describe: N/A	The relevant lighting condition can be described as: backlit frontlit side-lit
2. Order	
Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes exhibit order by displaying traditional or logical patterns of land used/evolopment. Elements in the landscape that are incestsent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.	8. Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that there is broad public consensus on the value of that particular resource. The characteristics of the resource that contribute to its scenic or recreational value provide guidance in evaluating a projects visual impact on that resource.
Does this view contain a natural order? ☐ Yes ☑ No If yes, how does the natural order affect the view?	Would viewers consider this location a valued scenic or recreational resource? 🗹 Yes 🔲 No
NA	How would the site be used for scenic or recreational enjoyment? Birding and Wildlife Management
ATLANTIC SHORES 1 of 6	ATLANTIC SHORES offshore wind

Visual Impact Assessment	Personn	nel:_KAC	
	KC	OP: LATOIN EBF N	WR
Existing Conditions	Da	nte: 26 February 20.	21
o .	isitivity of each resource on a score of 1 to 9 (1 liability to	9 distinct)	
	should be 4.5 of 9.0 (no impact), otherwise, rating should		
			Score
	Water I	Resources:	4.5
		Landform:	4.5
	,	Vegetation:	4.5
		Land Use:	7
	Us	ser Activity:	6
	Existing Condition	s #1 Total:	26.5
2. Respond to each question below using a score of	of 0 to 3 (0 not present to 3 being high density)		
Special Condition A. Does thi	s zone contain any scenic, cultural, or historic la	andmarks?	1
Special Condition B. Are	e there other aesthetic elements that add to this	resource?	1
Respond to each question below using a score of 0	to 3 (0 littered/polluted to 3 free of litter/pollution)		
Specia	al Condition C. Is this zone free from pollution a	nd/or litter?	2
	Existing Conditions #2 Total (Sum 2A th	rough 2C)	4
Existi 3. Comments:	ing Conditions Grand Total (Sum #1 Total and	d #2 Total)	30.5
Cultural Historic: Birding and Wildlife Management			
Aesthetic: Dark sky.			
Litter: Unseen.			
view that is part of a structure in the background view alo	t there are no stars or planets visible, however, there is an existing the waterway. Given the wildlife refuge landuse it is not anticondscape, however, the adjacent residential use would potentially	cipated that there would b	e high

Visual Impact Assessment	Personnel: KAC	
Visual impuot / issossinone	KOP: LATOIN EBF	NWR
Proposed Conditions	Date: 26 February	2021
1. With the proposed project in place, rate the aesthetic quality/sensitivity of each resou	urce on a score of 1 to 9 (1 liability to 9 of	distinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Score
	Water Resources:	4.5
	Landform:	4.5
	Vegetation:	4.5
	Land Use:	6
	User Activity:	6
 Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct) Note: Special Conditions score is taken directly from Existing Conditions #2 Total and can be adjusted up or down based upon the Proposed Conditions view. 	Special Conditions:	4
	Total:	29.5
3. Comments:		
The red obstruction lights of the wind turbine nacelles are small red flashes on the horizon at 32.11 rows of turbine lights stacked on each other that creates a visual hot-spot. Upon focusing on the b drawn to the associated lights to the left and right of the central hot-spot. The splay of the red light construction layout of the turbines, which is visually odd in its appearance as the perspective dimin through space. The visual perception of the "moving lights" would be further accentuated by the fit	right center of strobing lights, the viewer's at ts in the center of the view is caused by the h hishes and the lights recede, almost as if they	tention is then leads-on

Visual Impact Assess	sment P	ersonnel: KAC	Visual Impact Assessr		
		KOP: <u>LAT01N EBF NWR</u>		KOP: <u>LAT01N EBF</u>	NWR
Proposed Conditions - Compati	tibility and Contrast Rating	Date: <u>26 February 2021</u>	Proposed Conditions	Date: <u>26 February 2</u>	
	If an element is not present in the view the score should should be a whole number score.	be a 0 (no impact), otherwise,	the selected KOP.	box next to the description that most closely describes the visual prominence of the Pr	oject from
4. Rate the compatibility of the proposed project	on a scale of 1 to 3 (1 compatible to 3 not compatible	le)	Visibility Rating	Description	
Water Resources:	O Land Use:	1	Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended perior.	
Landform: Vegetation:	O User Activity: O Total:	1.5 2.5	Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. If could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
Rate scale contrast of the proposed project on Water Resources:			Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or contrast to compete with major landscape/ seascape elements.	√
Landform: Vegetation:	O Land Use: O User Activity: Total:	1 1.5 2.5	Visibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or dominate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
Water Resources: Landform: Vegetation:	O Land Use: O User Activity: O Total:	1 1.5	Visibility level 5. Strongly attracts the visual attention of views in the general direction of the study subject. Attention may be drawn by the strong contrast in form, line, color, or texture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to strong contrasts in form, line, color, and texture, bright light sources such as lighting and reflections! and moving objects associated with the study subject may contribute substratially of ordwang viewer attention. The visual promisence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	
7. Comments:	tion lights is a commercial/industrial addition to the wildlife		Visibility level 6. Dominates the view because the study subject fills most of the visual field for views in 18 general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to view dominance.	An object/phenomenon with strong visual contracts that is so large that it occupies most of the visual field, and views of it cannot be envided except by Juming one's head from the and 5° from a direct view of the object. The object/phenomenon is the major focus of visual attention, and its large apparent size is a major facior in its view dominance. In addition to size, contracts in form, line, color, and teutrue, triph light sources and moving objects associated with the study subject may contribute sustainally for damy deveer attention. The visual prominence of the study subject detracts noticeably from views of other landscape/seascape elements.	
	uon lights is a commercial/industrial addition to the wildlife re- e low since the houses are spread out between dredged bo				
Scale: While it is impossible to determine the scale of layout triggers the visual scale contrast for the viewer.	the turbines against the night sky, it is the scale of the insta	allation itself and the head-on construction	9. Comments:		
	ghts are small on the horizon, however, the scale of the ove h other that draws the viewer's attention before moving on		N/A		

ATLANTIC SHORES offshore wind

Date: 2/26/21	Personnel: Jocelyn Gavitt
Landscape Similarity Zone: <u>Dredged Lagoon/Salt Marsh</u>	Key Observation Point Name/Number: <u>LAT01N Edwin B Fors</u>
Key Observation Point (KOP) Familiarization	
Landscape/seascape, viewer, and related factors to be considered of	during evaluation of the KOP are outlined below.
The effect of the proposed Project on these factors should be incorp (proposed conditions). (This form is intended to record initial observations).	orated into the scoring and comments on the VIA assessment form ations and should be completed quickly, taking no more than 5 minutes)
General elements of formal visual analysis to be considere	d include:
their spatial arrangement. Basic landscape components inc	objects and voids in the landscape that can be categorized by slude vegetation, landform, water, and sky. Some compositions, or feature-oriented, are more vulnerable to modifications than
of a landscape/seascape, as well as a project. Form refers edge, outline, and surrounding space. Line refers to the pa or texture, usually evident as the edges of shapes or mass	compositional elements that define the perceived visual character to the shape of an object that appears unified, often defined by the the eye follows when perceiving abrupt changes in form, color, es in the landscape/seascape. Texture, in this context, refers to o which form, line, color, and texture of a project are similar to or eleseascape is a primary determinant of visual impact.
 Spatial Dominance: The degree to which an object or land and thus dominates seascape composition from a specific 	dscape/seascape element occupies space in a landscape/seascape viewpoint.
	relation to its surroundings can define the compatibility of its scale likely to vary depending on the distance from which it is seen and
Principles of composition to be considered include:	
1. Focal Point	
physical characteristics. Focal points often contrast with the tend to draw a viewer's attention. Examples include promi-	s stand out and are particularly noticeable as a result of their leir surroundings in color, form, scale, or texture, and therefore nent trees, mountains, or cultural features, such as a distinctive ted so as to obscure or compete with important existing focal points
Does this view contain a focal point? Yes N	No
If yes, briefly identify/describe:	
2. Order	
by displaying traditional or logical patterns of land use/dev this natural order may detract from scenic quality. When a	Idetermined by natural processes. Cultural landscapes exhibit order relopment. Elements in the landscape that are inconsistent with new project is introduced to the landscape, intachess and order olors, and textures existing in the surrounding built or natural
Does this view contain a natural order? Yes If yes, how does the natural order affect the view?	No
There is a layering of salt marsh in the foreground, horizontal line open sky above the horizon. There is textural complexity in the f	es in the midground consisting of open water and some distant land form, and the

Visual Impact Assessment	Personnel: Jocelyn Gavitt
Tiodal Impact / 1000001110111	KOP: LATO1N Edwin B Fors
Principles of composition, continued:	Date: 2/26/21
 Visual Clutter Numerous unrelated built elements occurring within a view can create visual clutte adverse effect on scenic quality. 	er (disrupting the natural order), which generally has an
Does this view contain elements that contribute to visual clutter?	□ No
If yes, how does the visual clutter affect the view? There are some distant light	nts that gather attention.
4. Movement	
Motion of existing and proposed elements in a view can attract viewer attention.	
Does this view contain elements in motion that are likely to attract viewer atter	ntion? Yes No
(If the answer is yes, Note these elements in rating form comments)	
Factors affecting visual impact:	
5. Duration of View	
Some views are seen as quick glimpses while driving along a roadway or hiking a of time. Longer duration views of a project, especially from significant aesthetic re	
The duration of this view is: 🗹 Short Term/Fleeting 🗹 Long-term	
The frequency of this view is: 🗹 Repeated 🗆 Occasional	
6. Atmospheric Conditions	
Clouds, precipitation, haze, and other ambient weather-related conditions can affic can greatly impact the visibility and contrast of project components with landscape line, color, texture, and scale.	
Conditions in this view can be described as: 🗹 Clear 🗆 Partly Cloudy 🗆	Overcast 🗹 Hazy
Conditions that may increase/decrease visibility could be described as: Conditions that may increase/decrease visibility could be described as:	ditions are generally clear, but long term visibility seems . Moisture in the air could impact visibility.
7. Lighting Direction	
Backlighting refers to a viewing situation in which sunlight is coming toward the of Front lighting refers to a situation where the light source is coming from behind th viewed. Side lighting refers to a viewing situation in which sunlight is coming from dements in a scene. Lighting direction can have a significant effect on the visibility.	e observer and falling directly upon the area being overhead or the side of the observer to a feature or
The relevant lighting condition can be described as:	side-lit
8. Scenic or Recreational Value	
Designation as a scenic or recreational resource is an indication that there is broa resource. The characteristics of the resource that contribute to its scenic or recreational impact on that resource.	
Would viewers consider this location a valued scenic or recreational resource?	☑ Yes ☐ No
How would the site be used for scenic or recreational enjoyment? Local residents	s will experience this view on a regular basis

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ATLANTIC SHORES

6 of 6

Vicual Impact Accessment	Personnel: Jocelyn Gav	itt	Viewel Impact Assessment	Personnel: Jocelyn Gavit	tt
Visual Impact Assessment	KOP: LATO1N Edw		Visual Impact Assessment	KOP: LATO1N Edwin	
Existing Conditions	Date: 2/26/21		Proposed Conditions	Date: 2/26/21	
In the existing view rate the aesthetic quality/sensitivity of each resour	rce on a score of 1 to 9 (1 liability to 9 distinct)		With the proposed project in place, rate the aesthetic quality/sensitivity of each	resource on a score of 1 to 9 (1 liability to 9 di	stinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (note a whole number score.			Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating should be a whole number score.		Score
		Score		Water Resources:	2
	Water Resources:	6		Landform:	2
	Landform:	6		Vegetation:	3
	Vegetation:	6		Land Use:	3
	Land Use:	5		User Activity:	2
	User Activity:	5			
	Existing Conditions #1 Total:	28	Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct) Note: Special Conditions score is taken directly from Existing Conditions #2 Total and ca		
2. Respond to each question below using a score of 0 to 3 (0 not present	to 3 being high density)		be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	4
Special Condition A. Does this zone contain any	y scenic, cultural, or historic landmarks?	2			
Special Condition B. Are there other aesth	netic elements that add to this resource?	2		Total:	16
Respond to each question below using a score of 0 to 3 (0 littered/pollute	ed to 3 free of litter/pollution)				
Special Condition C. Is t	his zone free from pollution and/or litter?	2	3. Comments:		
Existing Cor	nditions #2 Total (Sum 2A through 2C)	6	The proposed turbine lights are a focus and a distraction in this view. The grid form of the tip pattern across the horizon. It is antivipated that the lights will be flashing, creating and anim		
Existing Conditions Gr 3. Comments:	rand Total (Sum #1 Total and #2 Total)	34			
This view has some complexity in the foreground, consisting of some reflections of The open water is is dark and does not capture one's attention at night.	off of water in the marsh. There are a few visible lights in the	distant built land.			
ATLANTIC SHORES offshore wind		3 of 6	ATLANTIC SHORES offshore wind		4 of 6
Viewel Impact Accessors and	Personnel: Jocelyn Gav	itt	Visual Impact Assessment	Personnel: Jocelyn Gavit	tt
Visual Impact Assessment	KOP: LATO1N Edw		visuai impact Assessment	KOP: LATO1N Edwin	

Visual Impact Assess	ment	Person	nel: Jocelyn Gavitt	Visual Impact Assessr	nent	Personnel: Jocelyn Gavitt
Thousan Impacts to cook		K	OP: LAT01N Edwin B Fors			KOP: LATO1N Edwin B Fors
Proposed Conditions - Compatib	pility and Contrast I	Rating	ate: <u>2/26/21</u>	Proposed Conditions 8. Visibility Threshold Level - Check the	e box next to the description that most closely describes the	Date: 2/26/21 ne visual prominence of the Project from
	an element is not present in the ould be a whole number score.	view the score should be a 0	(no impact), otherwise,	the selected KOP.		
4. Rate the compatibility of the proposed project or	n a scale of 1 to 3 (1 compatib	ele to 3 not compatible)		Visibility Rating	Description	
Water Resources:	3	Land Use:	2	Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It o who was unaware of it in advance and looking for it. Even under tho can be seen only after looking at it closely for an extended period.	
Landform:	2	User Activity:	2	Visibility level 2. Visible when scanning in the general direction of the study subject;	An object/phenomenon that is very small and/or faint, but when the horizon or looking more closely at an area, can be detected without	extended viewing. It could
Vegetation:	2	Total:	11	otherwise likely to be missed by casual observers.	sometimes be noticed by casual observers; however, most people visome active looking.	would not notice it without
5. Rate scale contrast of the proposed project on a	scale of 1 to 3 (1 minimal to 3	3 severe)		Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual	An object/phenomenon that can be easily detected after a brief look most casual observers, but without sufficient size or contrast to comseascape elements.	
Water Resources:	3	Land Use:	2	observers. Visibility level 4. Plainly visible, so could	An object/phenomenon that is obvious and with sufficient size or co	intract to compate with other
Landform:	3	User Activity:	2	not be missed by casual observers, but does not strongly attract visual attention or	landscape/seascape elements, but with insufficient visual contrast to attention and insufficient size to occupy most of an observer's visual attention.	o strongly attract visual
Vegetation:	3	Total:	13	dominate the view because of its apparent size, for views in the general direction of the study subject.		
6. Rate spatial dominance of the proposed project of	on a scale of 1 to 3 (1 subordi	inate, 2 co-dominant, 3 dom	ninant)	Visibility level 5. Strongly attracts the visual	An object/phenomenon that is not large but contrasts with the surror	unding landscape elements
Water Resources:	3	Land Use:	3	attention of views in the general direction of the study subject. Attention may be drawn	so strongly that it is a major focus of visual attention, drawing viewer tending to hold that attention. In addition to strong contrasts in form,	r attention immediately and , line, color, and texture,
Landform:	3	User Activity:	3	by the strong contrast in form, line, color, or texture, luminance, or motion.	bright light sources such as lighting and reflections! and moving object may contribute substantially to drawing viewer attention. The study subject interferes noticeably with views of nearby landscape/s	e visual prominence of the
Vegetation:	3	Total:	15	Visibility level 6. Dominates the view	An object/phenomenon with strong visual contrasts that is so large t	<u> </u>
7.0				because the study subject fills most of the visual field for views in its general direction. Strong contrasts in form, line, color, texture, luminance, or motion may contribute to	visual field, and views of it cannot be avoided except by turning one a direct view of the object. The object/phenomenon is the major foci large apparent size is a major factor in its view dominace. In additi- line, color, and texture, bright light sources and moving objects asso.	e's head more than 45° from us of visual attention, and its on to size, contrasts in form, ociated with the study subject
7. Comments:				view dominance.	may contribute substantially to drawing viewer attention. The visual subject detracts noticeably from views of other landscape/seascape	e elements.
The turbine lights dominate this view due to the quantity a	and breadth of visibility.					
				9. Comments:		





Visual Impact Assessment	Visual Impact Assessment	Personnel: KV
•		KOP: LATO1N-Forsythe/Wo
Date: <u>03-01-2021</u> Personnel: <u>KV</u>	Principles of composition, continued:	Date: 03-01-2021
Landscape Similarity Zone: <u>Dredged Lagoon/Salt Marsh</u> Key Observation Point Name/Number: <u>LAT01N-Forsythe/Wo</u>	3. Visual Clutter	
Key Observation Point (KOP) Familiarization	Numerous unrelated built elements occurring within a view can create visi adverse effect on scenic quality.	ual clutter (disrupting the natural order), which generally has an
Landscape/seascape, viewer, and related factors to be considered during evaluation of the KOP are outlined below.	Does this view contain elements that contribute to visual clutter?	Yes No
The effect of the proposed Project on these factors should be incorporated into the scoring and comments on the VIA assessment form (proposed conditions). (This form is intended to record initial observations and should be completed quickly, taking no more than 5 minutes)	If yes, how does the visual clutter affect the view? atthough difficult t gaze.	to see at this distance lights from the distant barrier island draw the
General elements of formal visual analysis to be considered include:	Motion of existing and proposed elements in a view can attract viewer atte	ention.
Landscape/Seascape Composition: The arrangement of objects and voids in the landscape that can be categorized by	Does this view contain elements in motion that are likely to attract vie	ewer attention? 🗹 Yes 🗌 No
their spatial arrangement. Basic landscape components include vegetation, landform, water, and sky. Some compositions, especially those that are distinctly focal, enclosed, detailed, or feature-oriented, are more vulnerable to modifications than panoramic, canopied, or ephemeral landscapes.	(If the answer is yes, Note these elements in rating form comments)	
Form, Line, Color, and Texture: These are the four major compositional elements that define the perceived visual character	Factors affecting visual impact:	
of a landscape/seascape, as well as a project. Form refers to the shape of an object that appears unified, often defined by	5. Duration of View	
edge, outline, and surrounding space. Line refers to the path the eye follows when perceiving abrupt changes in form, color, or texture, usually evident as the edges of shapes or masses in the landscape/seascape. Texture, in this context, refers to	Some views are seen as quick glimpses while driving along a roadway or of time. Longer duration views of a project, especially from significant ae:	
the visual surface characteristics of an object. The extent to which form, line, color, and texture of a project are similar to or contrast with these same elements in the existing landscape/seascape is a primary determinant of visual impact.	The duration of this view is: ☐ Short Term/Fleeting ☑ Long-term	m
 Spatial Dominance: The degree to which an object or landscape/seascape element occupies space in a landscape/seascape and thus dominates seascape composition from a specific viewpoint. 	The frequency of this view is: 🗹 Repeated 🗆 Occasional	
Project Scale: The apparent size of a proposed project in relation to its surroundings can define the compatibility of its scale	6. Atmospheric Conditions	
within the existing seascape. Perception of project scale is likely to vary depending on the distance from which it is seen and other contextual factors.	Clouds, precipitation, haze, and other ambient weather-related condition: can greatly impact the visibility and contrast of project components with I line, color, texture, and scale.	
Principles of composition to be considered include:	Conditions in this view can be described as: ☑ Clear ☐ Partly C	Cloudy Overcast Hazy
1. Focal Point	Conditions that may increase/decrease visibility could be described	as: cloudy/overcast/hazy may decrease visibility
Certain natural or man-made landscape/seascape features stand out and are particularly noticeable as a result of their physical characteristics. Focal points often contrast with their surroundings in color, form, scale, or texture, and therefore	7. Lighting Direction	
physical ordinacerslus. Product points other cominas with riter and under some community, scale, or leading, and interlocine tend to draw a viewer's attention. Examples include prominent frees, mountains, or cultural features, such as a distinctive lighthouse. If possible, a proposed project should not be sited so as to obscure or compete with important existing focal points in the landscape/seascape.	Backlighting refers to a viewing situation in which sunlight is coming towa Front lighting refers to a situation where the light source is coming from it viewed. Side lighting refers to a viewing situation in which sunlight is con elements in a scene. Lighting direction can have a significant effect on th	behind the observer and falling directly upon the area being ning from overhead or the side of the observer to a feature or
Does this view contain a focal point? ☑ Yes ☐ No		
If yes, briefly identify/describe: the existing read warning light on the distant barrier island	The relevant lighting condition can be described as: backlit	frontlit side-lit
2. Order		
Natural landscapes/seascapes have an underlying order determined by natural processes. Cultural landscapes skiblit order by displaying traditional or logical patterns of land use/development. Elements in the landscape that are inconsistent with this natural order may detract from scenic quality. When a new project is introduced to the landscape, intactness and order are maintained through the repetition of the forms, lines, colors, and textures existing in the surrounding built or natural environment.	Scenic or Recreational Value Designation as a scenic or recreational resource is an indication that their resource. The characteristics of the resource that contribute to its scenic visual impact on that resource.	re is broad public consensus on the value of that particular or recreational value provide guidance in evaluating a project's
Does this view contain a natural order? ☑ Yes ☐ No If yes, how does the natural order affect the view?	Would viewers consider this location a valued scenic or recreational reso	ource? 🗹 Yes 🔽 No
the grassy edge of the welland is dark and difficult to distinguish, but the water way weaving through it lightly reflects ambient light of the night sky. This gives the viewer something to gaze on and ground themselves within the view white their eyes loosely distinguish the forms surrounding them.		is part of the Forythe NWR, but in a heavily residential area where residents are unlikely to frequent.
ATLANTIC SHORES 1 of 6	ATLANTIC SHORES offshore wind	

Visual Impact Assessment	Personnel: KV		Visual Impact Assessment	Personnel: KV	
•	KOP: LATO1N-Fors	sythe/Wo	Tioudi impuoti tooocomont	KOP: <u>LATO1N-Fors</u>	sythe/Wo
Existing Conditions	Date: 03-01-2021		Proposed Conditions	Date: <u>03-01-2021</u>	
In the existing view rate the aesthetic quality/sensitivity of each resource on a score of 1 to 9 (1).	I liability to 9 distinct)		With the proposed project in place, rate the aesthetic quality/sensitivity of eac	h resource on a score of 1 to 0 /1 liability to 0 /	distinct)
Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact), otherwise, rating	-		Note: If an element is not present in the view the score should be 4.5 of 9.0 (no impact		
be a whole number score.			otherwise, rating should be a whole number score.	W / B	Score
		Score		Water Resources:	5
	Water Resources:	7		Landform:	3
	Landform:	7		Vegetation:	5
	Vegetation:	7		Land Use:	4
	Land Use:	5		User Activity:	4
	User Activity:	5			
Existing Co	onditions #1 Total:	31	Collectively rate special conditions on a score of 0 to 9 (0 liability to 9 distinct Condition of the special conditions of a score of 0 to 9 (0 liability to 9 distinct Condition of the special conditions of the s	•	
2. Respond to each question below using a score of 0 to 3 (0 not present to 3 being high density)			Note: Special Conditions score is taken directly from Existing Conditions #2 Total and be adjusted up or down based upon the Proposed Conditions view.	Special Conditions:	6
Special Condition A. Does this zone contain any scenic, cultural, or	historic landmarks?	2			
Special Condition B. Are there other aesthetic elements that ac	dd to this resource?	2		Total:	27
Respond to each question below using a score of 0 to 3 (0 littered/polluted to 3 free of litter/pollut	tion)				21
Special Condition C. Is this zone free from po	ollution and/or litter?	3	3. Comments:		
Existing Conditions #2 Total (Su	um 2A through 2C)	7	Water resources in this night view are most recognizable in the near foreground. The WTG developed ocean. This is both a detraction from distant water resources, but also buffers II However, landform, previously recognizable on the horizon by the dim lights of the develop	he decrease in quality as the near foreground resource	ces remain high.
Existing Conditions Grand Total (Sum #1 3. Comments:	Total and #2 Total)	38	subtle landform and lighting are both wiped out and expanded. The subtleness of the exist lighting from the WTGs seems to extend the landform across the water resources. Those water, but others may view this as an extended distant landform stretching across the hori.	ling light giving dimension to the distant landform is gr intimate with the area will understand the turbines are	one, but the e developed on
Movement attracting viewer attention: while the wetland grasses rippling in the breeze may not be visible the vinarshland nightlime hum.	viewer will hear this soft rustling a	is part of the	occupying the horizon will also draw viewer attention away from the near foreground and on Land use appears to take on a more industrial use, especially on the distant horizon. User		o vegetation.
This night view depicts a location where viewers are able to stand at the edge of development and overlook a landform, and vegetation in this area could be considered distinct even during this low light level. Despite bein of sensory experience due to the presence and type of these resources. Light splashes, amphilibans, insects, year. The light smell of sall water and and herbaceous vegetation will be recognizable when focus on the visu view is primarily preserved sall marsh with developed barrier sland, however, the context page indicates the vocumulity. Over land access to his location is only available through this community withm any view sers a gain access. Due to this user activity is often limited to local residents, but an occasional wildlife enthusast mar footprint of the Forsythe NWR, the night view adds aesthetic elements as the dim lighting will heighten viewer in this location.	ng difficult to see a viewer will exp and vegetation will all be audible tal senses is limited. Land use as viewers back is to a developed dr a sense that they must belong in the ay access this location. This locat	erience a variety at this time of seen within this edged lagoon he community to tion is within the	General aesthetic contributions of this night scene are impacted by the introduction of the detracts from the view but will likely decrease sensitivity of sound and smell which are typic detracts from the view but will likely decrease sensitivity of sound and smell which are typic detracts from the view but will likely decrease sensitivity of sound and smell which are typic detracts from the view but will likely decrease sensitivity of sound and smell which are typic decreases.		ent not only

ATLANTIC SHORES

2 of 6

Visual Impact Assessment	Personnel: KV	—— Visual Impact Assess	ement Personnel: KV	
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D 10 19 0 19 10	Date: 03-01-2021		Date: 03-01-2021	
Proposed Conditions - Compatibility and C	Contrast Rating	Proposed Conditions	he box next to the description that most closely describes the visual prominence of the Proje	act from
Note: If an element is not rating should be a whole	present in the view the score should be a 0 (no impact), otherwise, number score.		no box next to the description that most closely describes the visual profilmence of the Frederick	ACC IT OHI
Rate the compatibility of the proposed project on a scale of 1 to	3 (1 compatible to 3 not compatible)	Visibility Rating	Description	
Water Resources: 3	Land Use: 3	Visibility level 1. Visible only after extender close viewing; otherwise invisible.	I, An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware off it in advance and looking for it. Even under those circumstances; the object can be seen only after looking at it closely for an extended period.	
Landform: 3	User Activity: 3	Visibility level 2. Visible when scanning in	An object/phenomenon that is very small and/or faint, but when the observer is scanning the	
Vegetation: 3	Total: 15	the general direction of the study subject; otherwise likely to be missed by casual observers.	horizon or looking more closely af an area, can be detected without extended viewing. If could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
5. Rate scale contrast of the proposed project on a scale of 1 to 3 (Visibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual		
Water Resources: 3	Land Use: 3	observers. Visibility level 4. Plainty visible, so could	A ship state and the state of t	
Landform: 3	User Activity: 3	not be missed by casual observers, but does not strongly attract visual attention or	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape/seascape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
Vegetation: 3	Total: 15	dominate the view because of its apparent size, for views in the general direction of the study subject.		Ш
6. Rate spatial dominance of the proposed project on a scale of 1 t	to 3 (1 subordinate, 2 co-dominant, 3 dominant)	Visibility level 5. Strongly attracts the visua	An object/phenomenon that is not large but contrasts with the surrounding landscape elements	
Water Resources: 3	Land Use: 3	attention of views in the general direction the study subject. Attention may be drawn	of so strongly that it is a major focus of visual attention, drawing viewer attention immediately and	_
Landform: 3	User Activity: 3	by the strong contrast in form, line, color, o texture, luminance, or motion.	subject may contribute substantially to drawing viewer attention. The visual prominence of the	\checkmark
Vegetation: 3	Total: 15		study subject interferes noticeably with views of nearby landscape/seascape elements.	
7. Comments:	10.00.	Visibility level 6. Dominates the view because the study subject fills must of the visual field for views ints general direction. Strong contrasts in form, line, color, texture luminance, or motion may contribute to view dominance.	. a direct view of the object. The object/phenomenon is the major focus of visual attention, and its	
While the massing of WTGs are contained within a relatively limited area o resources. When flashing at a regular interval viewer attention will be draw the span of the WTG area. Even though it is contained within a portion of it elements. Due to these factors the spatial dominance of the WTGs when lit	on to, and capture by, this installation. Similarly the scale contrast is seven the view those looking out toward the ocean will find it difficult to focus or	evere because of		
		9. Comments:		
		While viewers may find it difficult to avoid different direction.	distraction by the lights blinking at a slow regular interval it is possible to turn and look out over the wellar	nd in a
ATLANTIC SHORES		5 of 6 ATLANTIC SHORES	PRINT DOCUMENT TO PDF	6 of 6
offshore wind		offshore wind		0 01 0

Date: February 25, 2021	Personnel: Steve Breitzka
andscape Similarity Zone: <u>Dredged Lagoon/Salt Marsh</u>	Key Observation Point Name/Number: <u>LAT01N</u>
Key Observation Point (KOP) Familiarization	on
andscape/seascape, viewer, and related factors to be considere	d during evaluation of the KOP are outlined below.
	orporated into the scoring and comments on the VIA assessment form ervations and should be completed quickly, taking no more than 5 minutes;
General elements of formal visual analysis to be consider	ered include:
their spatial arrangement. Basic landscape components	of objects and voids in the landscape that can be categorized by include vegetation, landform, water, and sky. Some compositions, ed, or feature-oriented, are more vulnerable to modifications than
of a landscape/seascape, as well as a project. Form refe edge, outline, and surrounding space. Line refers to the or texture, usually evident as the edges of shapes or ma the visual surface characteristics of an object. The exter	jor compositional elements that define the perceived visual character are to the shape of an object that appears unified, often defined by path the eye (flows when perceiving abrupt changes in form, color, ssess in the landscape/seascape. Texture, in this context, refers to to which form, line, color, and lexture of a project are similar to or cape/seascape is a primary determinant of visual impact.
Spatial Dominance: The degree to which an object or l and thus dominates seascape composition from a speci	andscape/seascape element occupies space in a landscape/seascape fic viewpoint.
	in relation to its surroundings can define the compatibility of its scale is likely to vary depending on the distance from which it is seen and
Principles of composition to be considered include:	
1. Focal Point	
Certain natural or man-made landscape/seascape featu physical characteristics. Focal points often contrast with tend to draw a viewer's attention. Examples include pro	ures stand out and are particularly noticeable as a result of their their surroundings in color, form, scale, or texture, and therefore minent trees, mountains, or cultural features, such as a distinctive e sited so as to obscure or compete with important existing focal points
Does this view contain a focal point? <a> Yes	No
If yes, briefly identify/describe: A single red dot of light	left of center in the view.
2. Order	
by displaying traditional or logical patterns of land use/o this natural order may detract from scenic quality. When	or determined by natural processes. Cultural landscapes exhibit order development. Elements in the landscape that are inconsistent with a new project is introduced to the landscape, intactness and order c, colors, and textures existing in the surrounding built or natural
Does this view contain a natural order? Yes If yes, how does the natural order affect the view?	☑ No

Visual Impact Assessment	Personnel: Steve Breitzka
'	KOP: <u>LAT01N</u>
Principles of composition, continued:	Date: February 25, 2021
3. Visual Clutter	
Numerous unrelated built elements occurring within a view can create valverse effect on scenic quality.	visual clutter (disrupting the natural order), which generally has an
Does this view contain elements that contribute to visual clutter?	Yes V No
If yes, how does the visual clutter affect the view?	
4. Movement	
Motion of existing and proposed elements in a view can attract viewer a	attention.
Does this view contain elements in motion that are likely to attract v	viewer attention?
(If the answer is yes, Note these elements in rating form comments	5)
Factors affecting visual impact:	
5. Duration of View	
Some views are seen as quick glimpses while driving along a roadway of time. Longer duration views of a project, especially from significant a	
The duration of this view is: \square Short Term/Fleeting \checkmark Long-te	erm
The frequency of this view is: \square Repeated \square Occasional	
6. Atmospheric Conditions	
Clouds, precipitation, haze, and other ambient weather-related condition can greatly impact the visibility and contrast of project components with line, color, texture, and scale.	
Conditions in this view can be described as: \square Clear \square Partly	Cloudy Overcast Hazy
Conditions that may increase/decrease visibility could be describe	ed as: No atmospheric conditions visible.
7. Lighting Direction	
Backlighting refers to a viewing situation in which sunlight is coming to Front lighting refers to a situation where the light source is coming fron Viewed. Side lighting refers to a viewing situation in which sunlight is or elements in a scene. Lighting direction can have a significant effect on	n behind the observer and falling directly upon the area being oming from overhead or the side of the observer to a feature or
The relevant lighting condition can be described as:	frontlit 🔲 side-lit
8. Scenic or Recreational Value	
Designation as a scenic or recreational resource is an indication that the resource. The characteristics of the resource that contribute to its scen visual impact on that resource.	nere is broad public consensus on the value of that particular iic or recreational value provide guidance in evaluating a project's
Would viewers consider this location a valued scenic or recreational re	source? 🗹 Yes 🔲 No
	e unobstructed view for the adjacent homes is a tremendous scenic ource.
ATLANTIC SHORES	



Visual Impact Assess	sment	Personnel: Steve Breitz	ka	Vis	ual Impact Asse	essment	Personnel: Steve Brei	tzka
•		KOP: LATO1N			uai iiipaot 71331	0331110111	KOP: <u>LATO1N</u>	
Existing Conditions		Date: February 25	2021	Prop	osed Conditions		Date: February 2	25, 2021
In the existing view rate the aesthel	tic quality/sensitivity of each resource on a score	e of 1 to 9 (1 liability to 9 distinct)		1. With 1	the proposed project in place, rate	the aesthetic quality/sensitivity of each	resource on a score of 1 to 9 (1 liability to	9 distinct)
Note: If an element is not present in the be a whole number score.	view the score should be 4.5 of 9.0 (no impact), other	erwise, rating should		Note: If a	an element is not present in the view t se, rating should be a whole number so	the score should be 4.5 of 9.0 (no impact), core.		Score
			Score				Water Resources:	3
		Water Resources:	7				Landform:	5
		Landform:	5				Vegetation:	4.5
		Vegetation:	4.5				Land Use:	2
		Land Use:	7				User Activity:	2
		User Activity:	7					
	E	xisting Conditions #1 Total:	30.5			score of 0 to 9 (0 liability to 9 distinct)	n	
2. Respond to each question below us	sing a score of 0 to 3 (0 not present to 3 being hi	gh density)			sted up or down based upon the Propo		Special Conditions:	3
Special Condition	A. Does this zone contain any scenic, co	ultural, or historic landmarks?	1					3
Special Cond	dition B. Are there other aesthetic eleme	nts that add to this resource?	0				Total:	19.5
Respond to each question below using	ng a score of 0 to 3 (0 littered/polluted to 3 free of	litter/pollution)						19.5
	Special Condition C. Is this zone from	ee from pollution and/or litter?	3	3. Comn				
	Existing Conditions #2	Total (Sum 2A through 2C)	4	runway	lights extending deep into the view. The	ere is a regularity to them in width and depth,	eir distance from the viewpoint and their spacin creating long red streaks drawing attention into This increases there intensity as the appear st	the center of the
3. Comments:	Existing Conditions Grand Total	(Sum #1 Total and #2 Total)	34.5	another.			, , , , , , , , , , , , , , , , , , , ,	
	view at night. A narrow meandering ribbon of water crc e a dark upright shadow but is not clear. The lone red d t the sky, dissolving the horizon line.							
ATLANTIC SHORES offshore wind			3 of 6	A	TLANTIC SHORES offshore wind			4 of 6
Visual Impact As	ssessment	Personnel: Steve Breitz	ka	Visu	al Impact Assessme	ent	Personnel: Steve Brei	tzka
1		KOP: <i>LAT01N</i>					KOP: <i>LAT01N</i>	

Water Resources: Landform: 1 User Acti Vegetation: 0 To Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) Water Resources: Landform: 1 User Acti Vegetation: 0 To	opatible) Jse: 3 vity: 2 Ital: 9
rating should be a whole number score. 4. Rate the compatibility of the proposed project on a scale of 1 to 3 (1 compatible to 3 not cor Water Resources: Landform: 1 User Acti Vegetation: 0 To Water Resources: Landform: 1 User Acti Vegetation: User Acti Vegetation: 1 User Acti Vegetation: 1 User Acti Vegetation: 1 User Acti Vegetation: 1 To	opatible) Jse: 3 vity: 2 Ital: 9
Water Resources: Landform: 1 User Acti Vegetation: 0 To S. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) Water Resources: Landform: 1 User Acti Vegetation: 0 To	Jse: 3 vity: 2 tal: 9
Landform: Vegetation: 1 User Acti Vegetation: 5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) Water Resources: 2 Landform: 1 User Acti Vegetation: 0 To	vity: 2 vity: 9 vise: 2
Vegetation: O To To S. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) Water Resources: Landform: User Acti Vegetation: O To	Jse: 2
5. Rate scale contrast of the proposed project on a scale of 1 to 3 (1 minimal to 3 severe) Water Resources: Landform: 1 User Acti	Jse: 2
Water Resources: Landform: Vegetation: 2 Land User Active Company	2
Landform: 1 User Acti Vegetation: 0 To	2
Vegetation: 0 To	vitv: 2
	···y· 🚄
Rate spatial dominance of the proposed project on a scale of 1 to 3 (1 subordinate, 2 co-dor	otal: 7
	ninant, 3 dominant)
Water Resources: 3 Land I	Jse: 3
Landform: 3 User Acti	vity: 3
Vegetation: 0	ital: 12
7. Comments:	

Visibility Rating	Description	
Visibility level 1. Visible only after extended, close viewing; otherwise invisible.	An object/phenomenon that is near the extreme limit of visibility. It could not be seen by a person who was unaware of it in advance and looking for it. Even under those circumstances, the object can be seen only after looking at it closely for an extended period.	
Visibility level 2. Visible when scanning in the general direction of the study subject; otherwise likely to be missed by casual observers.	An object/phenomenon that is very small and/or faint, but when the observer is scanning the horizon or looking more closely at an area, can be detected without extended viewing. It could sometimes be noticed by casual observers; however, most people would not notice it without some active looking.	
/isibility level 3. Visible after a brief glance in the general direction of the study subject and unlikely to be missed by casual observers.	An object/phenomenon that can be easily detected after a brief look and would be visible to most casual observers, but without sufficient size or confrast to compete with major landscape/ seascape elements.	
/Isibility level 4. Plainly visible, so could not be missed by casual observers, but does not strongly attract visual attention or forminate the view because of its apparent size, for views in the general direction of the study subject.	An object/phenomenon that is obvious and with sufficient size or contrast to compete with other landscape-lessescape elements, but with insufficient visual contrast to strongly attract visual attention and insufficient size to occupy most of an observer's visual field.	
/isibility level 5. Strongly attracts the visual attention of views in the general direction of he study subject. Attention may be drawn by the strong contrast in form, line, color, or exture, luminance, or motion.	An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to strong contrasts in form, line, color, and texture, bright light sources such as lighting and reflectional and moving objects associated with the study subject may contribute substantially of ordawing viewer attention. The visual grominence of the study subject interferes noticeably with views of nearby landscape/seascape elements.	✓
/isibility level 6. Dominates the view because the study subject fills most of the isual field for views in its general direction. Strong contrasts in form, line, color, texture, uminance, or motion may contribute to iew dominance.	An object/phenomenon with strong visual contrasts that is so large that it occupies most of the visual field, and views of it cannot be avoided except by turning one's head more than 45' from a direct view of the object. The object/phenomenon is homapir locus of visual altention, and its large apparent size is a major factor in its view dominance. In addition to size, contrasts in form, line, color, and texture, tripfly light sources and moving objects associated with the study subject may contribute substantially to drawing viewer altertion. The visual prominence of the study subject detexts noticeably from views of other landscaperseascape elements.	



The difference between level 5 and level 6 is difficult in this view. The red lights dominate focus because there is nothing else to see. However, they are distant and fade away on the right and left sides of the field. The turbines are not large in the view but the lights are obvious and unmistakable.

ATTACHMENT H

VISIBILITY MODELING STUDY

Final Report:

Initial Visibility Modeling Study for Offshore Wind for New Jersey's Atlantic Shores Offshore Wind Project

Project/WBS Element: P-340005601-1-01-004 **SOW Number:** 2

Authors:

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Prepared by:

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Last Updated: 8 April 2021

Initial Visibility Modeling Study for Offshore Wind for New Jersey's Atlantic Shores Offshore Wind Project

Introduction:

A key stakeholder concern around the development of offshore wind in the United States is how the constructed wind farms may impact viewshed from the shore, with some concerned that visible wind turbines would be a negative impact, while others have no concern or see it as beneficial, although surveys indicate a strong preference to locate turbines further from shore to reduce visual impacts (Musial & Ram, 2010). Due to the shallow continental shelf of the Mid-Atlantic United States, offshore wind farms can be built further offshore, while still utilizing fixed foundations. The wind energy lease owned by Atlantic Shores Offshore Wind (ASOW) is located more than 8 miles away from the closest shore point, and extending out to 24 miles from the shoreline at its farthest (see Figure 1). Having a firm understanding of the visibility regime present within the wind lease area, areas along the shore, and the ocean between is of interest to ASOW.

The Rutgers University Center for Ocean Observing Leadership (RUCOOL) has been running a real-time version of the Weather Research and Forecasting (WRF, Skamarock et al. 2008) model for wind resource assessment purposes since 2011 (RUWRF), through funding support by the New Jersey Board of Public Utilities (NJBPU). In addition to being used for wind resource assessment, WRF is a fully dynamic mesoscale atmospheric model, which includes a large

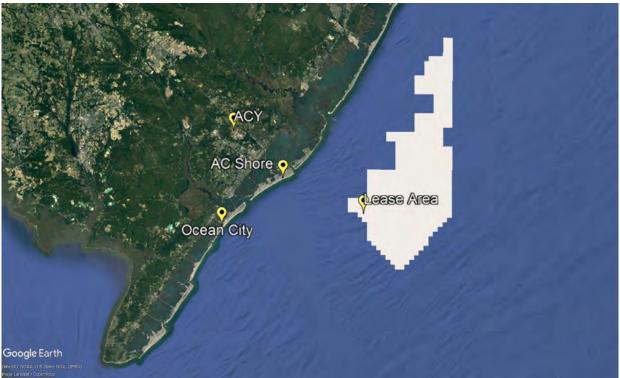


Figure 1: Map depicting the Atlantic Shores Offshore Wind lease area, along with shoreside points used for comparison.

number of output variables frequently used in weather and climate prediction. ASOW approached RUCOOL with this project to evaluate the visibility regime within and around the ASOW lease area, utilizing RUWRF model output¹. Since observations of visibility are only located at selected weather stations, the RUWRF model output was validated against available observations prior to being used to estimate visibility in the full region of interest. Some key messages and findings are included below, with a detailed description of the work to follow.

Key Messages:

- Observational visibility data from 2019 were analyzed at Atlantic City International Airport (ACY) and Ocean City Municipal Airport (26N). ACY is located several miles inland, while 26N is along the shoreline.
- The percentage of daylight hours with observed visibilities of 8 or 10 miles and above range from 73% to 89% at ACY and 26N. The observed visibility frequencies at 26N were 6% and 12% lower than the frequencies at ACY for 8 and 10 miles respectively.
- While monthly visibility frequencies at ACY did not show substantial variations, monthly frequencies at 26N revealed **lower visibility in the late spring, and higher visibility in the late summer and fall.**
- Plots of visibility calculated from RUWRF model data indicate a frequency of 1 out of 4 or 5 days (23%) for "very clear days" in the summer. "Very clear days" are defined by visibilities above 20 miles throughout the majority of the onshore and offshore environment in New Jersey.
- A majority of summer days exhibited high inland visibility and lower visibility (2-12 miles) over the ocean.
- Higher humidity and larger temperature differences between the air and ocean surface cause haziness and marine clouds/fog to occur more frequently offshore. Between Atlantic City Airport (ACY) and the Atlantic Shores Offshore Wind lease area, a distance of roughly 25 miles, the percentage of daylight hours with a calculated visibility of 10 or more miles decreases from 78% to 41%.
- Through comparisons between observed and calculated visibility at ACY and 26N a bias was determined for 8 and 10-mile visibility. Visibility calculated from model data was 9% lower than observed visibility at >=8 miles. For >=10-miles, calculated visibility was 6% lower than observed visibility.
- Visibility looking towards the lease area from the shore was estimated by averaging 26N observational visibility with bias-corrected calculated visibility in the ASOW lease area. The results are as follows:
 - $\circ \geq 8$ miles: 70% of daylight hours
 - $o \ge 10$ miles: **60%** of daylight hours
- Average monthly plots of visibility revealed differences between onshore and offshore seasonal visibility trends. While observational data at 26N showed higher visibility in the late summer and fall, average monthly plots showed higher offshore visibility in the late fall and winter.

2

¹ RUWRF daily model output is available at https://go.rutgers.edu/RU-WRF.

Observed Visibility:

To begin assessing visibility along the coastline of southern New Jersey, observational visibility data was downloaded at Atlantic City International Airport (ACY) and Ocean City Municipal Airport (26N). These data were used to compute monthly and yearly frequencies of visibility greater than or equal to eight and ten miles during daylight hours in 2019 (Figure 2). In Ocean City, the fractions of daylight hours during which visibility was at least eight and ten miles were 83% and 73%, respectively. At ACY, visibilities above eight and ten miles were observed 89% and 85% of daylight hours. The higher visibility at ACY can be attributed to the drier inland air, compared to the more humid coastal air around 26N, as explained later on in this report.

Monthly visibility frequencies at ACY demonstrated minimal variation in 2019 (Figure 3a). Conversely, monthly visibility frequencies at 26N exhibited lower visibility in the late spring and higher visibility in the late summer and fall (Figure 3b). The lowest 10-mile visibility frequency at 26N occurred in May (59%) and the highest occurred in September (89%). Monthly visibility data from 2015-2017 at 26N showed similar trends to 2019, although overall visibility was slightly higher (Figure 4). Note that the 2018 data at 26N had significant data gaps, and was not used. Decreased visibility during the late spring are likely due to increased fog and clouds near the coast because of larger temperature differences between the warm late spring air and the cold ocean water. In the late summer, warmer ocean temperatures cause less condensation, and therefore fewer clouds to form as inland air moves over the ocean.

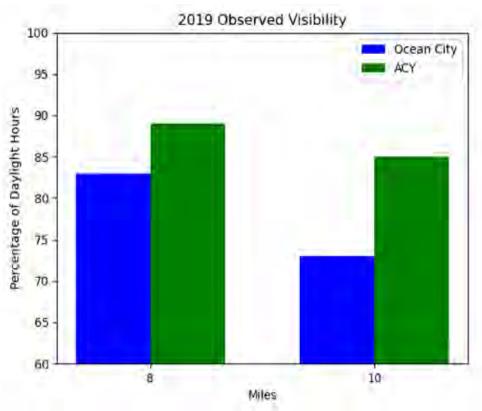


Figure 2: Overall annual visibility observed in 2019 at Atlantic City International Airport (ACY) and Ocean City Airport.

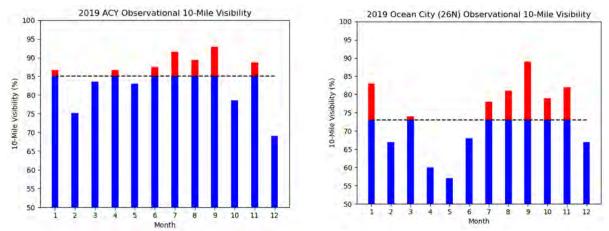


Figure 3: Observed visibility by month at (a) Atlantic City International Airport, and (b) Ocean City Airport.

Modeled Visibility:

Observational visibility data is limited to specific onshore locations such as ACY and 26N, therefore numerical weather prediction model data were necessary to carry out a more comprehensive analysis of coastal visibility in southern New Jersey. The model data used in this study are from the 3-km nested RUWRF model run by RUCOOL. Since RUWRF does not directly compute visibility, it can instead be calculated from humidity and temperature data. Two calculation methods were analyzed to determine which method most accurately computes

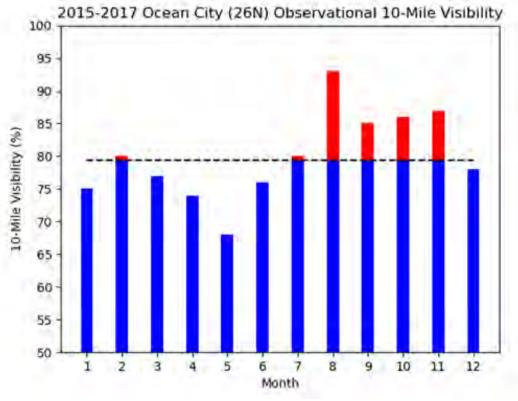


Figure 4: Observed visibility by month for 2015-2017 at Ocean City Airport.

visibility in the New Jersey coastal environment, based on methods studied by Bang et al. (2009).

The first method tested was the Forecast Systems Laboratory (FSL) method which uses temperature (T), dew point temperature (T_d) , and relative humidity (RH):

$$VIS_{mi} = 6000 \cdot \frac{T - T_d}{RH^{1.75}}$$

The second method tested was the Rapid Update Cycle (RUC) method, which only uses RH:

$$VIS_{km} = 60 \cdot exp\left(-2.5 \cdot \frac{RH - 15}{80}\right)$$

Monthly and yearly visibility calculated using both methods on RUWRF data were compared to observational data. In addition, visibility in July 2019 was calculated using the FSL and RUC methods on observational temperature and humidity data and compared to observational visibility for a more direct comparison.

Through these comparisons, it was determined that the FSL method more accurately estimates visibility than the RUC method. Although the FSL method overestimates the high end of visibility, it is relatively accurate in the low to middle range. Conversely, the RUC method substantially underestimates visibility during all conditions. An example of FSL-calculated visibility is shown in Figure 5.

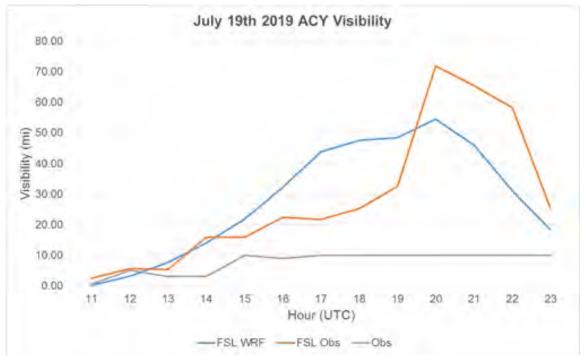


Figure 5: Visibility at Atlantic City International Airport (ACY) on 19 July 2019. The gray line depicts the observed visibility, while the orange line shows visibility calculated using observed temperature, dewpoint, and relative humidity, and the blue line depicts calculated visibility using these variables from RUWRF.

Once the FSL method was determined to be the more accurate method of visibility calculation, Python scripts were written to plot FSL visibility at each grid point in the 3-km model during daylight hours. These plots revealed stark differences between land and ocean visibility. In particular, a region of lower visibility appeared directly off of the coast in numerous plots during the summer, with slightly higher visibility farther out in the ocean. An example of this is shown in the plot from 1 August 2019 in Figure 6.

In July and August of 2019, each hour of plotted visibility was analyzed to determine the percentage of days with high visibility (>20 miles) throughout the entire grid, or "very clear days". Through this analysis, it was determined that roughly 23% of the days during that time period were "very clear days". A majority of days exhibited high inland visibility and lower visibility (2-12 miles) over the ocean.

Monthly and yearly visibility frequencies were computed at four points to compare observations and modeled data, and to study the impact of marine air on visibility. These points include: Atlantic City Airport (ACY), Ocean City Municipal Airport (26N), the Atlantic City shore, and

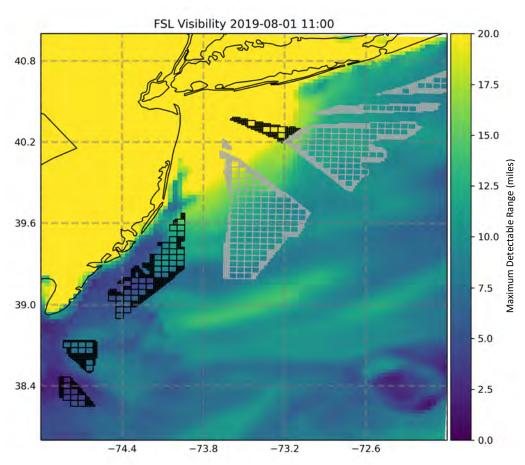


Figure 6: Calculated visibility (maximum detectable range) across the region from RUWRF output on 1 August 2019. Note the region of reduced visibility between the shoreline and the wind energy lease areas off southern New Jersey. The color shading indicates the maximum detectable range from a given point, based on the conditions at that point, and only indicate actual visibility if conditions are the same within that range; if nearby points have a reduced visibility, it will also reduce the actual visibility from the maximum detectable range. For instance, if standing in Atlantic City, visibility is reduced if looking to the east, as there is a region of reduced maximum detectable range just offshore, while visible range is high if looking to the west.

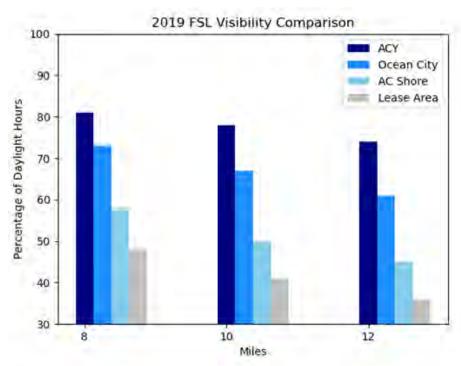


Figure 7: RUWRF calculated visibility at the 4 points shown in Figure 1. Note how the visibility rapidly decreases offshore due to the frequent marine fog.

the ASOW lease area (see Figure 1). Each of these points represent data from a single model grid point except 26N, which was an average of two adjacent points. Since 26N is on the coast, we found that the average of an ocean and inland point more accurately capture the coastal environment.

As previously stated, visibility varies rapidly between onshore and offshore locations along the New Jersey coastline. Higher humidity and larger temperature differences between the air and ocean surface cause haziness and marine clouds/fog to occur more frequently offshore. Between ACY and the ASOW lease area, a distance of roughly 25 miles, the percentage of daylight hours with a visibility of 10 or more miles decreases from 78% to 41% (see Figure 7). Although inland visibility is relatively high, the decreasing visibility offshore results in lower average visibility while looking towards the lease area.

While comparing observed and calculated visibility at ACY and 26N in 2019, a trend in lower calculated visibility was observed. At ACY, the percentage of daylight hours with a calculated visibility of ≥ 8 miles was 8% lower than the observed percentage, and 6% lower for 10-mile visibility. In Ocean City, the percentage of daylight hours with a calculated visibility of ≥ 8 miles was 10% lower than the observed percentage, and 6% lower for 10-mile visibility. Therefore, the average bias between these two stations was 9% lower for ≥ 8 -mile visibility and 6% lower for 10-mile visibility (see table and Figure 8 on next page).

	ACY Bias	26N Bias	Average Bias
>=8 Miles	8% lower	10% lower	9% lower
10 Miles	6% lower	6% lower	6% lower

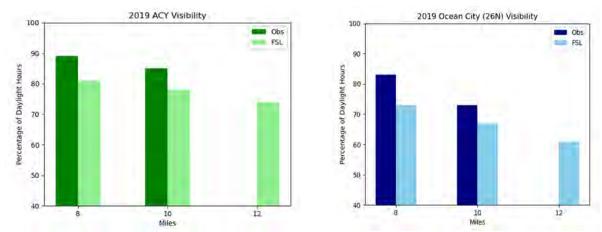


Figure 8: Comparison between observed and RUWRF-calculated visibility at (a) Atlantic City International Airport (ACY), and (b) Ocean City Airport (26N). Note that the visibility instruments at these stations only report visibility up to 10 miles; anything greater than 10 miles is reported as 10.

Since visibility varies substantially between onshore and offshore points, a method was developed to estimate the visibility of someone standing on the shore and looking out at the ocean. To do this, we averaged 2019 bias-corrected lease area visibility from RUWRF FSL data with Ocean City (26N) observational visibility. The results of this method are as follows:

≥ 8 miles: 70% of daylight hours
≥ 10 miles: 60% of daylight hours.

Finally, we calculated 2019 average visibility for each month, the summer months combined, and the entire year. Each of these were broken down into morning (13Z), mid-day (17Z), and late afternoon (21Z) average visibility. The yearly, monthly, and summer average visibility each share a trend of increasing visibility from the morning to the late afternoon. Higher visibility over the land appears to extend out into the ocean throughout the day. This is consistent with warmer temperatures during the day lowering the relative humidity and causing higher visibility (recall the FSL calculation method).

In addition to averages at certain times of day, complete averages of all daylight hours were plotted for each month and for the combined summer months (see Figure 9). While these plots demonstrate some similarities to the observed monthly visibility frequencies at 26N, they reveal notable differences in the summer months. Over the ocean, the average visibility in April, May and June ranged from 2.5 to 10 miles, which is consistent with lower frequencies above 10 miles

in the 26N observations. However, in July and August, when visibility frequencies over 10 miles in Ocean City are above 75%, average visibility off the coast ranges from 5 to 12 miles (**Error! Reference source not found.**). The highest offshore visibility occurred in the late fall and winter.

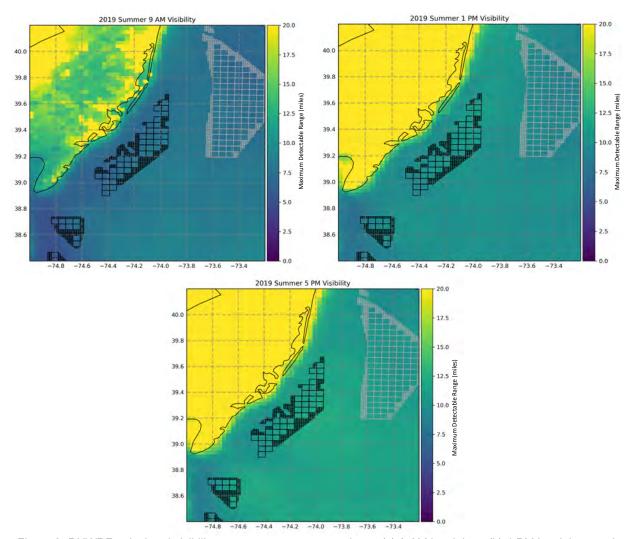


Figure 9: RUWRF-calculated visibility on an average summer day at (a) 9 AM local time; (b) 1 PM local time; and (c) 5 PM local time. The color shading indicates the maximum detectable range from a given point, based on the conditions at that point, and only indicate actual visibility if conditions are the same within that range; if nearby points have a reduced visibility, it will also reduce the actual visibility from the maximum detectable range.

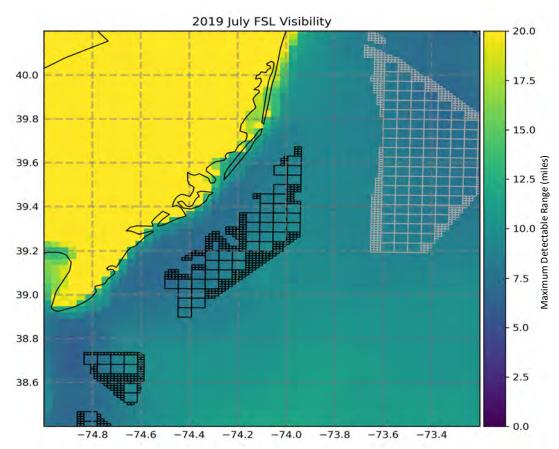


Figure 10: RUWRF-calculated average visibility for July 2019. The color shading indicates the maximum detectable range from a given point, based on the conditions at that point, and only indicate actual visibility if conditions are the same within that range; if nearby points have a reduced visibility, it will also reduce the actual visibility from the maximum detectable range.

Possible visibility instruments for Shore-based and Floating Lidars:

One item of interest to ASOW was the possibility of installing a visibility instrument on either the shore-based lidar system installed at the Rutgers University Marine Field Station (RUMFS), and/or for deployment on one of their floating lidar buoys, to provide additional observations for validation. A selection of possible instruments is indicated below:

- Campbell Scientific
 - CS120A (visibility sensor only)
 - CS125 (visibility sensor plus current weather)
 - If RH is connected, the instrument can determine if obscuration is wet or dry, and it can tell liquid from frozen precip
 - Range: 5m 75 km
 - Weight: 3 kg
 - Dimensions (inches): 21.26 x 25.2 x 9.7
- R.M. Young Sentry Visibility Sensor
 - Range: 30 m -16 km
 - Weight: 8 kg

■ Dimensions (inches): 35 x 11.5 x 12

■ Used/tested by NWS and FAA

• Vaisala – Visibility Sensor PWD50

Described as good instrument for marine environments with turbine applications

■ Range: 10m – 50km

■ Weight: 3 kg

■ Dimensions (inches): 5.51 x 15.91 x 27.36

References

Bang, C., Lee, J., & Hong, S. (2009). Predictability Experiments of Fog and Visibility in Local Airports over Korea using the WRF Model. *Journal of Korean Society for Atmospheric Environment*, 24, 92–101.

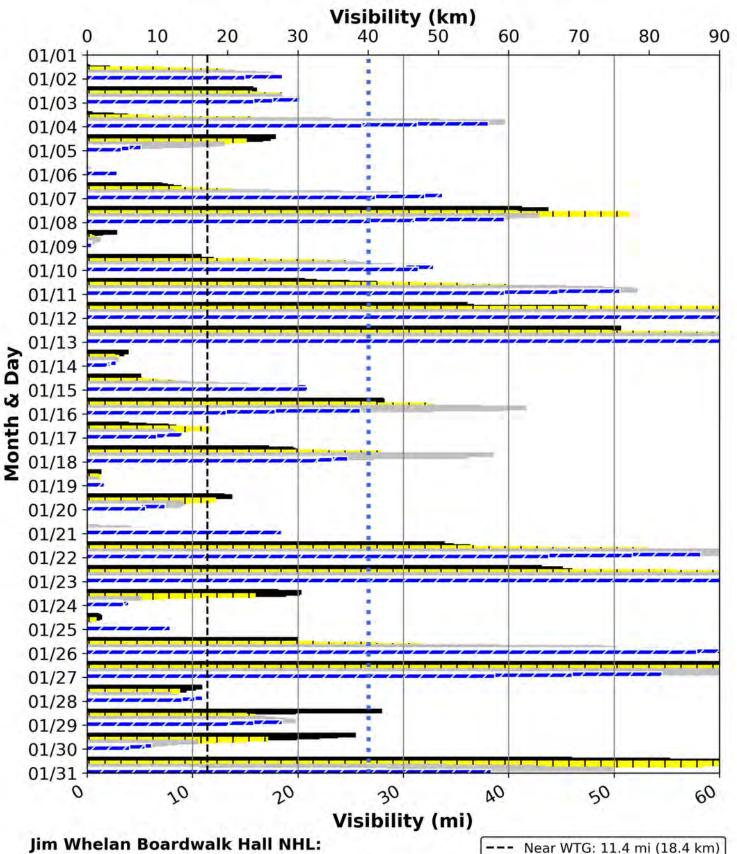
Musial, W., & Ram, B. (2010). Large-Scale Offshore Wind Power in the United States: Assessment of Opportunities and Barriers. Golden, CO.

Skamarock, W. C., Klemp, J. B., Dudhia, J., Gill, D. O., Barker, D. M., Duda, M. G., et al. (2008). *A Description of the Advanced Research WRF Version 3*. Boulder, Colorado, USA.

AC02

JIM WHELAN BOARDWALK HALL (ATLANTIC CITY CONVENTION CENTER NHL)

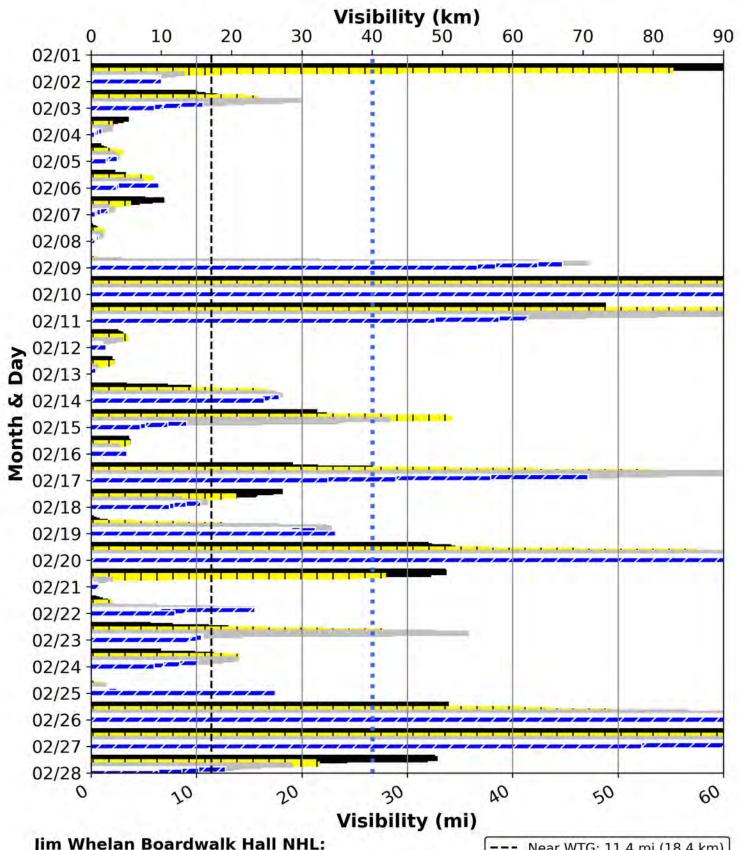
Jim Whelan Boardwalk Hall NHL (AC02) Hourly Visibility During Jan 2019



If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 61.3% of the month some of the proposed WTGs would have been visible, and 38.7% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 11.4 mi (18.4 km)
--- Far WTG: 26.7 mi (42.9 km)
--- 5 - 8 am EST
--- 11 am
--- 12 - 3 pm
--- 4 - 6 pm

Jim Whelan Boardwalk Hall NHL (AC02) **Hourly Visibility During Feb 2019**

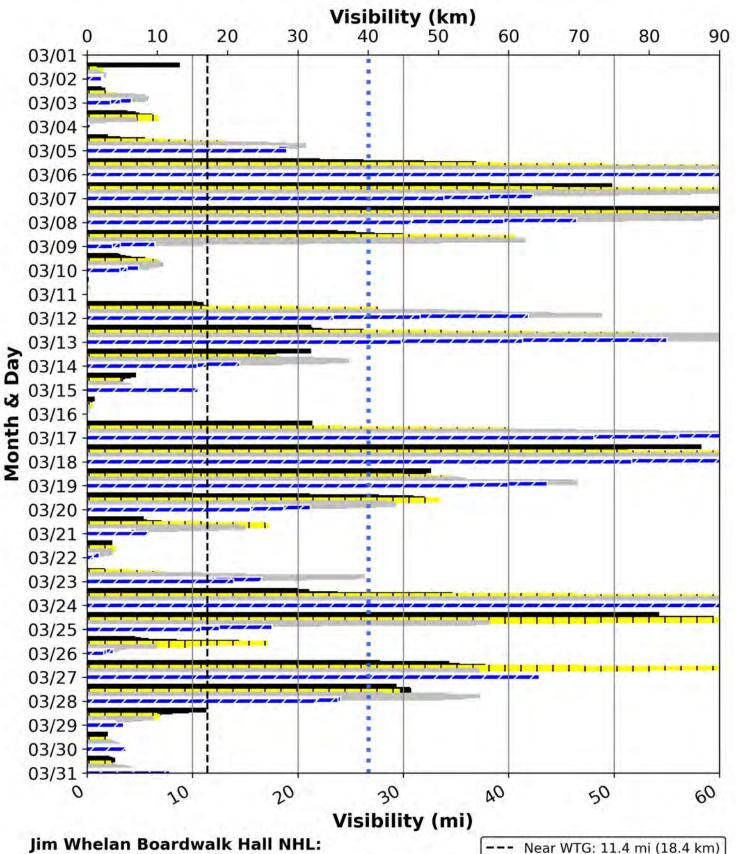


Jim Whelan Boardwalk Hall NHL:

If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 46.9% of the month some of the proposed WTGs would have been visible, and 53.1% of the month none of the proposed WTGs would have been visible.

Near WTG: 11.4 mi (18.4 km) Far WTG: 26.7 mi (42.9 km) 5 - 8 am EST 9 - 11 am 12 - 3 pm 4 - 6 pm

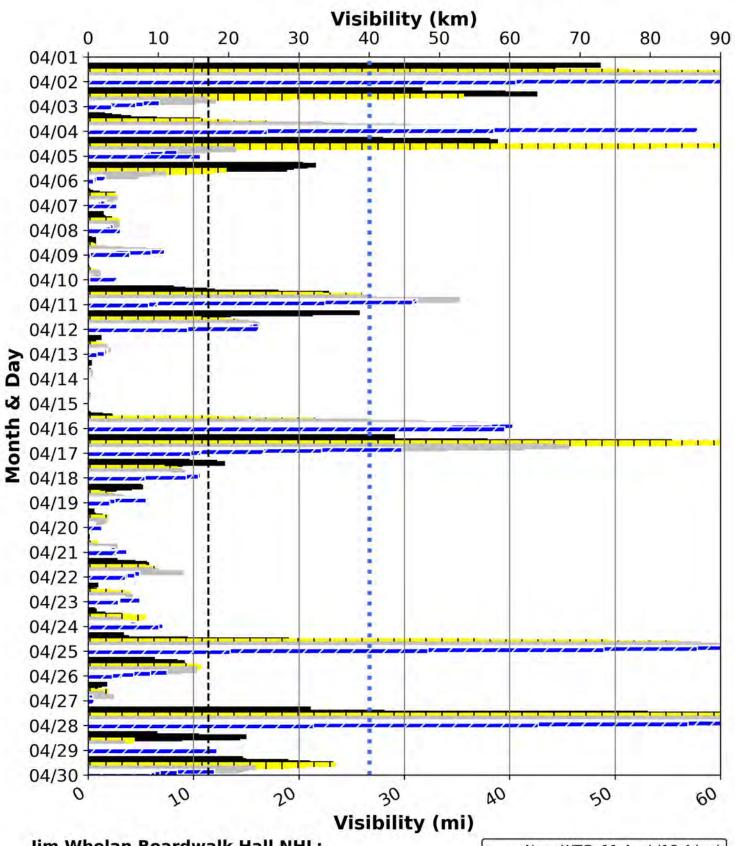
Jim Whelan Boardwalk Hall NHL (AC02) Hourly Visibility During Mar 2019



If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 51.4% of the month some of the proposed WTGs would have been visible, and 48.6% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 11.4 mi (18.4 km)
--- Far WTG: 26.7 mi (42.9 km)
--- 5 - 9 am EST
--- 10 am - 12 pm
--- 1 - 5 pm
--- 6 - 8 pm

Jim Whelan Boardwalk Hall NHL (AC02) Hourly Visibility During Apr 2019

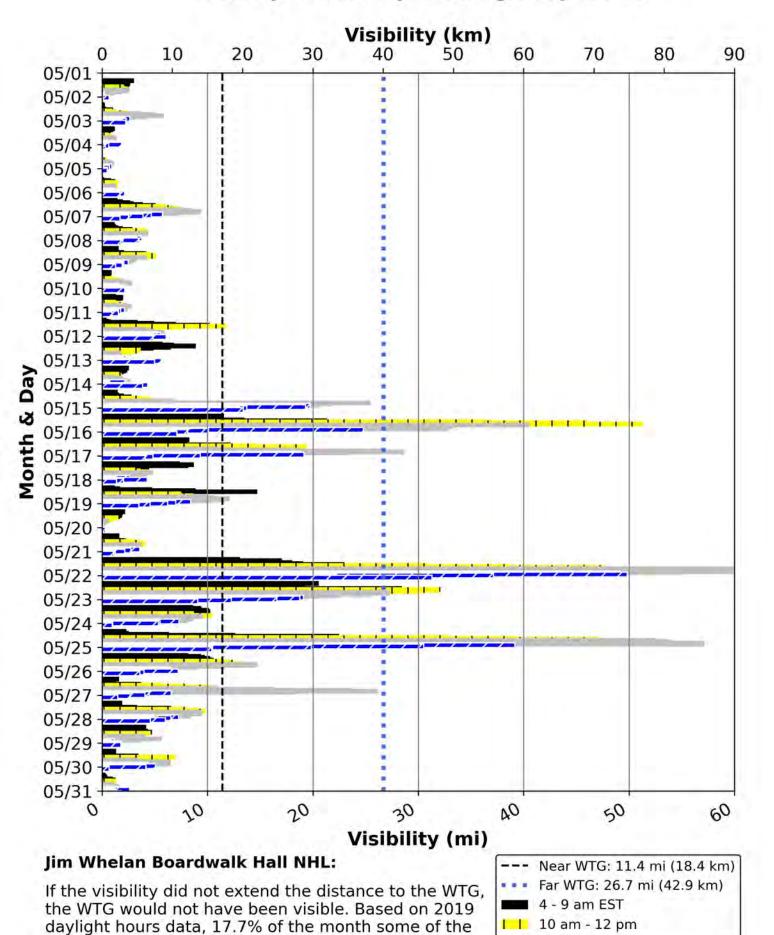


Jim Whelan Boardwalk Hall NHL:

If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 31.1% of the month some of the proposed WTGs would have been visible, and 68.9% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 11.4 mi (18.4 km)
--- Far WTG: 26.7 mi (42.9 km)
--- 4 - 9 am EST
--- 10 am - 12 pm
--- 1 - 4 pm
--- 5 - 9 pm

Jim Whelan Boardwalk Hall NHL (AC02) Hourly Visibility During May 2019



1 - 5 pm

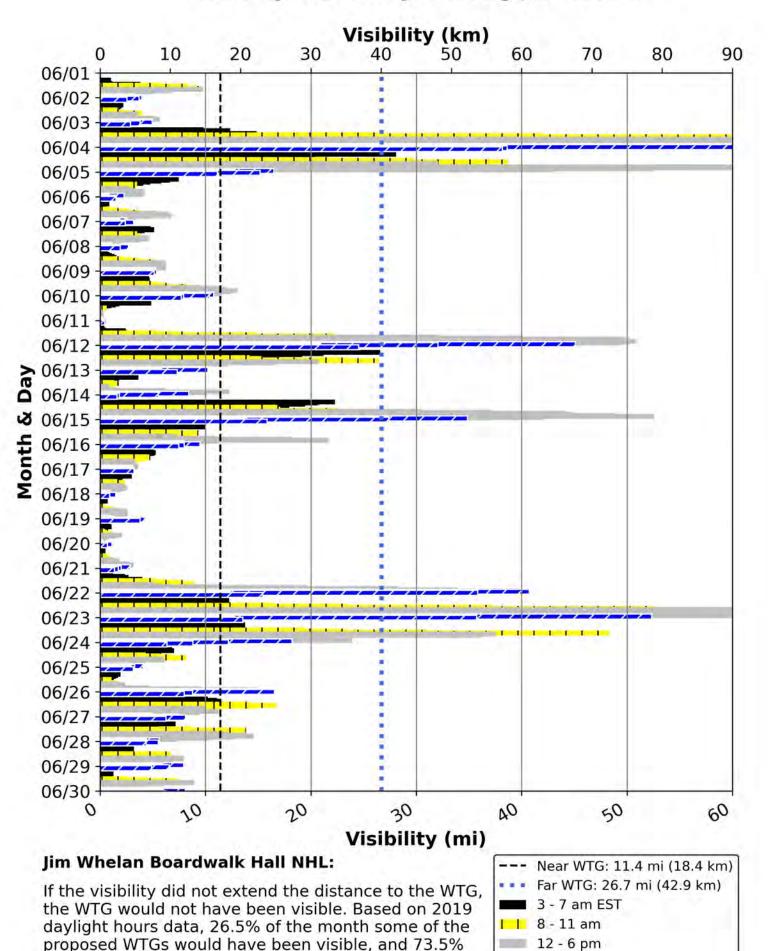
6 - 10 pm

proposed WTGs would have been visible, and 82.3%

been visible.

of the month none of the proposed WTGs would have

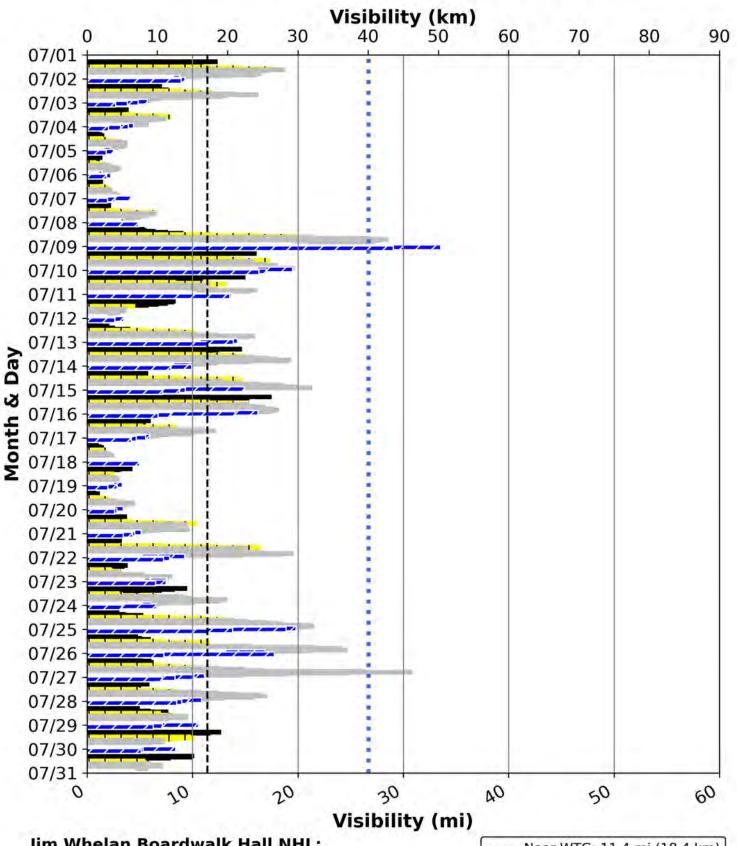
Jim Whelan Boardwalk Hall NHL (AC02) Hourly Visibility During Jun 2019



7 - 10 pm

of the month none of the proposed WTGs would have

Jim Whelan Boardwalk Hall NHL (AC02) **Hourly Visibility During Jul 2019**

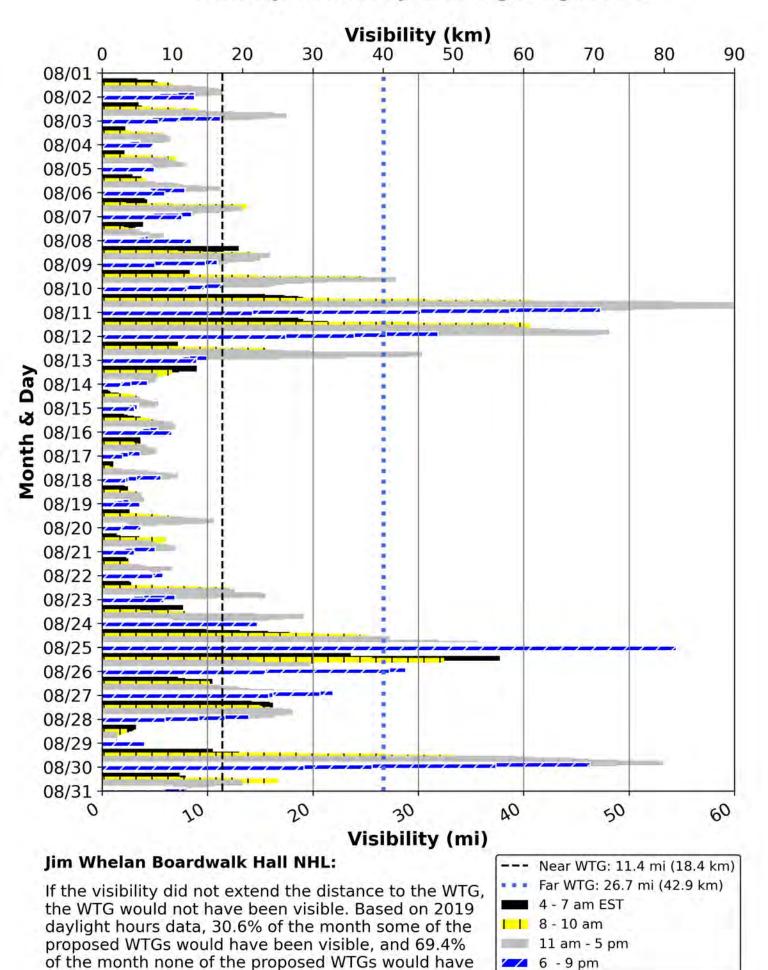


Jim Whelan Boardwalk Hall NHL:

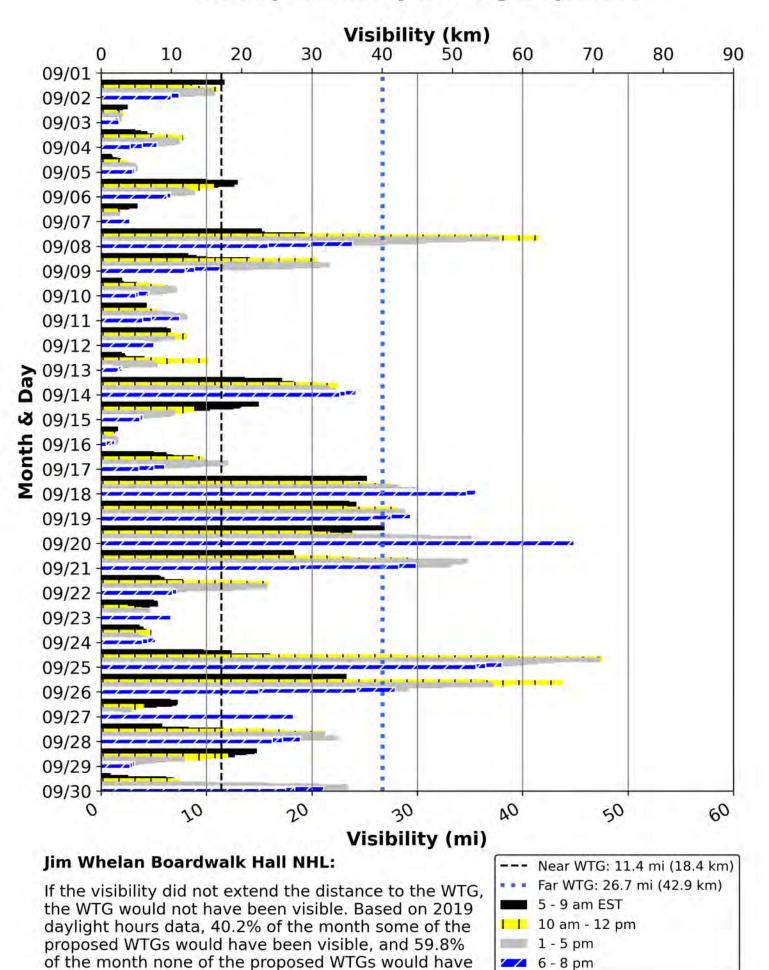
If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 25.0% of the month some of the proposed WTGs would have been visible, and 75.0% of the month none of the proposed WTGs would have been visible.

Near WTG: 11.4 mi (18.4 km) Far WTG: 26.7 mi (42.9 km) 3 - 7 am EST | 8 - 10 am 11 am - 6 pm 7 - 10 pm

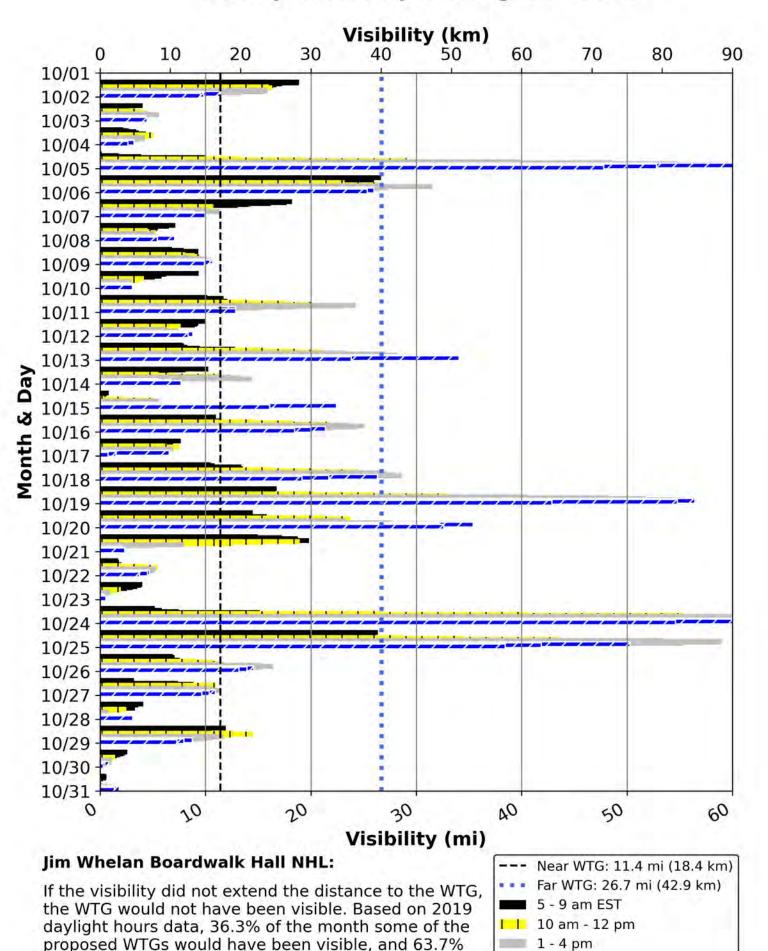
Jim Whelan Boardwalk Hall NHL (AC02) Hourly Visibility During Aug 2019



Jim Whelan Boardwalk Hall NHL (AC02) Hourly Visibility During Sep 2019



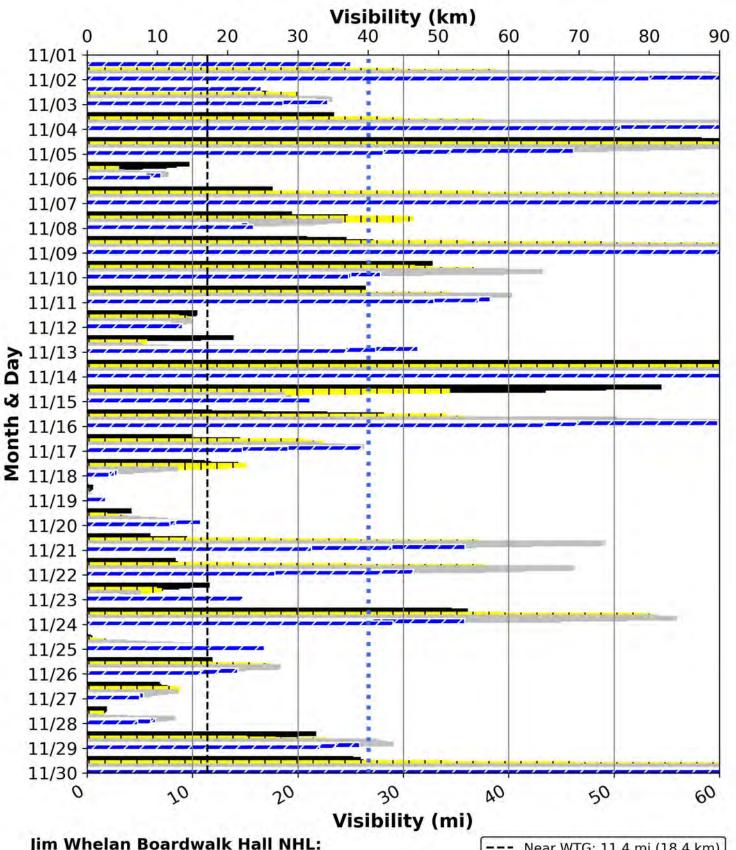
Jim Whelan Boardwalk Hall NHL (AC02) Hourly Visibility During Oct 2019



5 - 7 pm

of the month none of the proposed WTGs would have

Jim Whelan Boardwalk Hall NHL (AC02) **Hourly Visibility During Nov 2019**

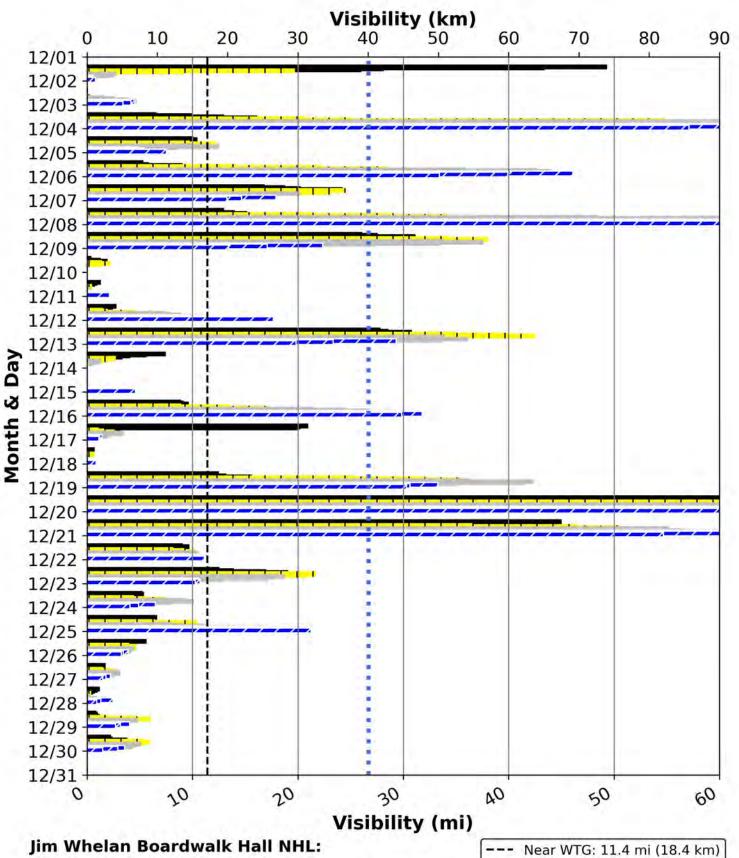


Jim Whelan Boardwalk Hall NHL:

If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 66.6% of the month some of the proposed WTGs would have been visible, and 33.4% of the month none of the proposed WTGs would have been visible.

Near WTG: 11.4 mi (18.4 km) Far WTG: 26.7 mi (42.9 km) 5 - 8 am EST | 9 - 11 am 12 - 3 pm 4 - 6 pm

Jim Whelan Boardwalk Hall NHL (AC02) Hourly Visibility During Dec 2019



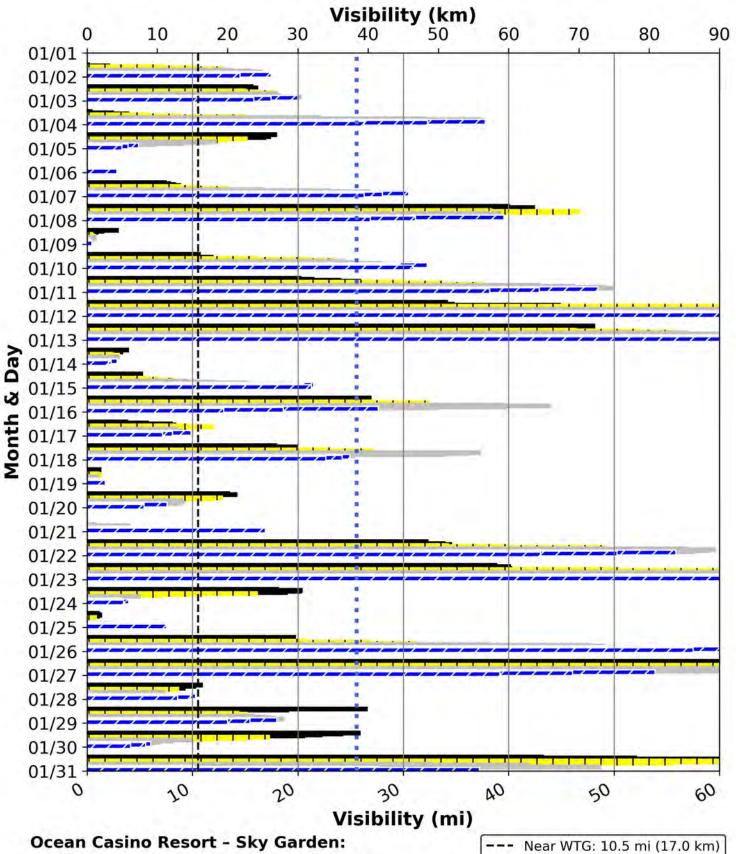
If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 37.8% of the month some of the proposed WTGs would have been visible, and 62.2% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 11.4 mi (18.4 km)
--- Far WTG: 26.7 mi (42.9 km)
--- 5 - 8 am EST
--- 9 - 11 am
--- 12 - 3 pm
--- 4 - 6 pm

AC04

OCEAN CASINO RESORT – SKY GARDEN

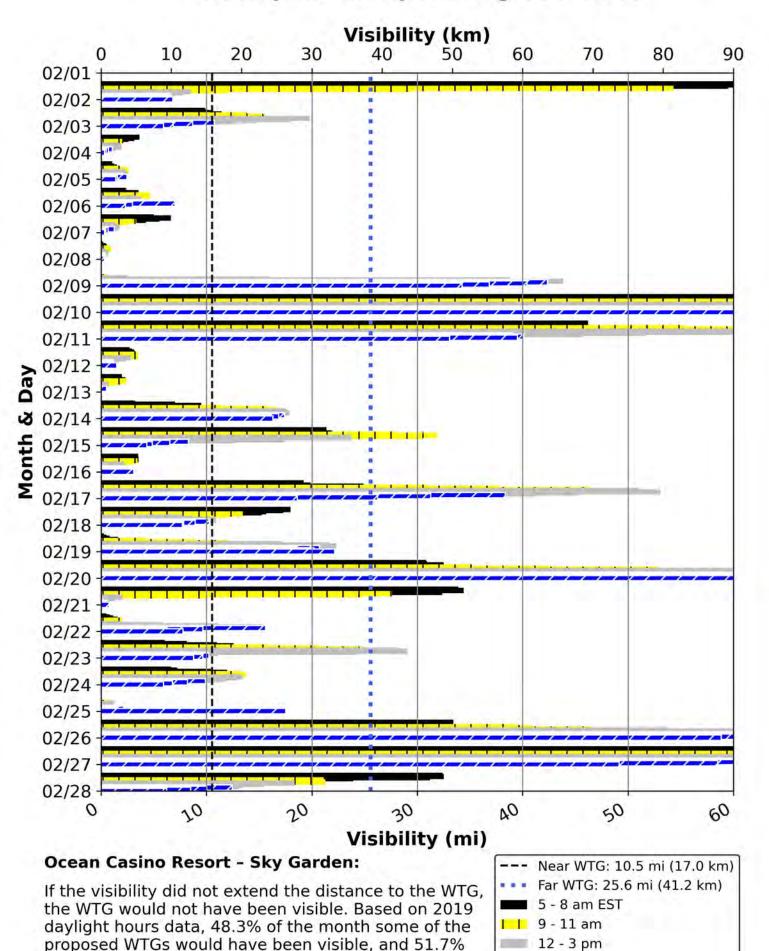
Ocean Casino Resort - Sky Garden (AC04) Hourly Visibility During Jan 2019



If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 62.7% of the month some of the proposed WTGs would have been visible, and 37.3% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 10.5 mi (17.0 km)
--- Far WTG: 25.6 mi (41.2 km)
--- 5 - 8 am EST
--- 12 - 3 pm
--- 4 - 6 pm

Ocean Casino Resort - Sky Garden (AC04) Hourly Visibility During Feb 2019

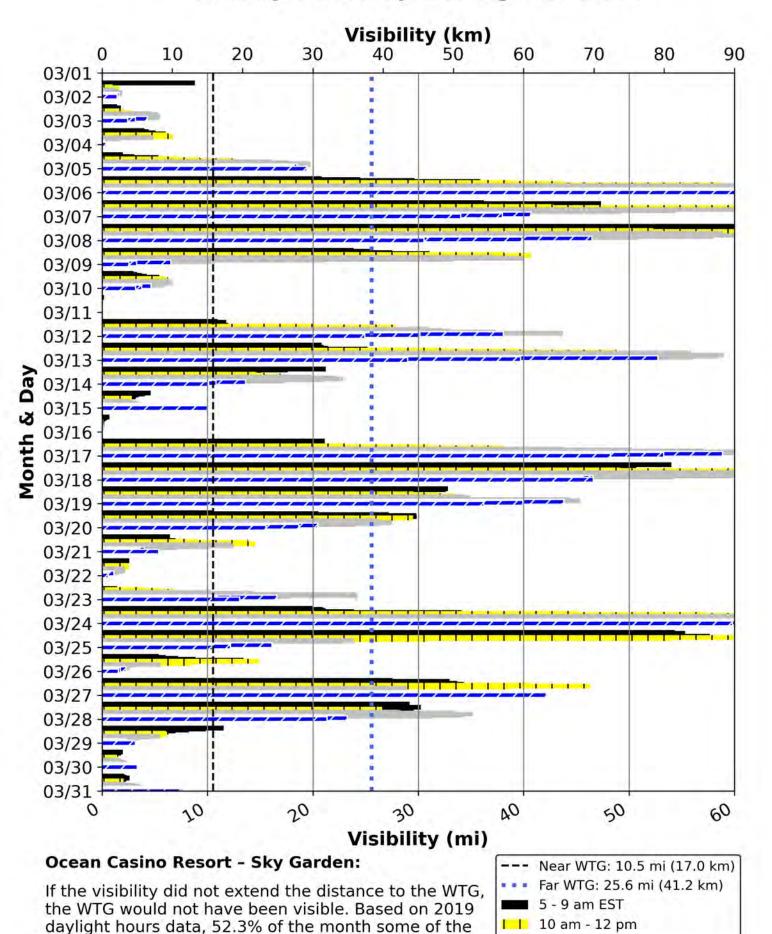


4 - 6 pm

of the month none of the proposed WTGs would have

been visible.

Ocean Casino Resort - Sky Garden (AC04) Hourly Visibility During Mar 2019



1 - 5 pm

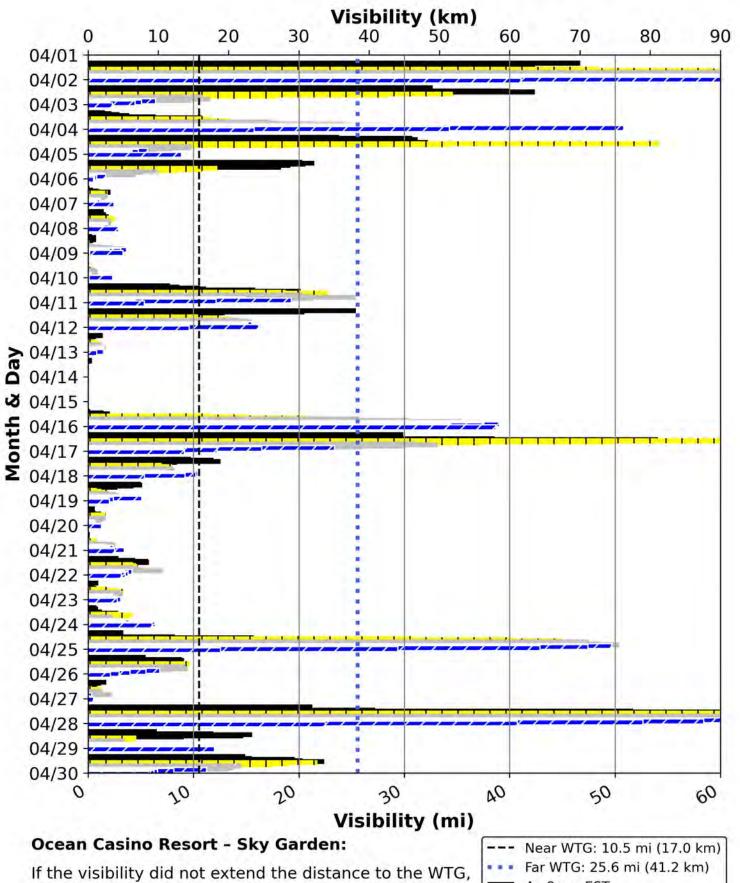
✓ 6 - 8 pm

proposed WTGs would have been visible, and 47.7%

of the month none of the proposed WTGs would have

been visible.

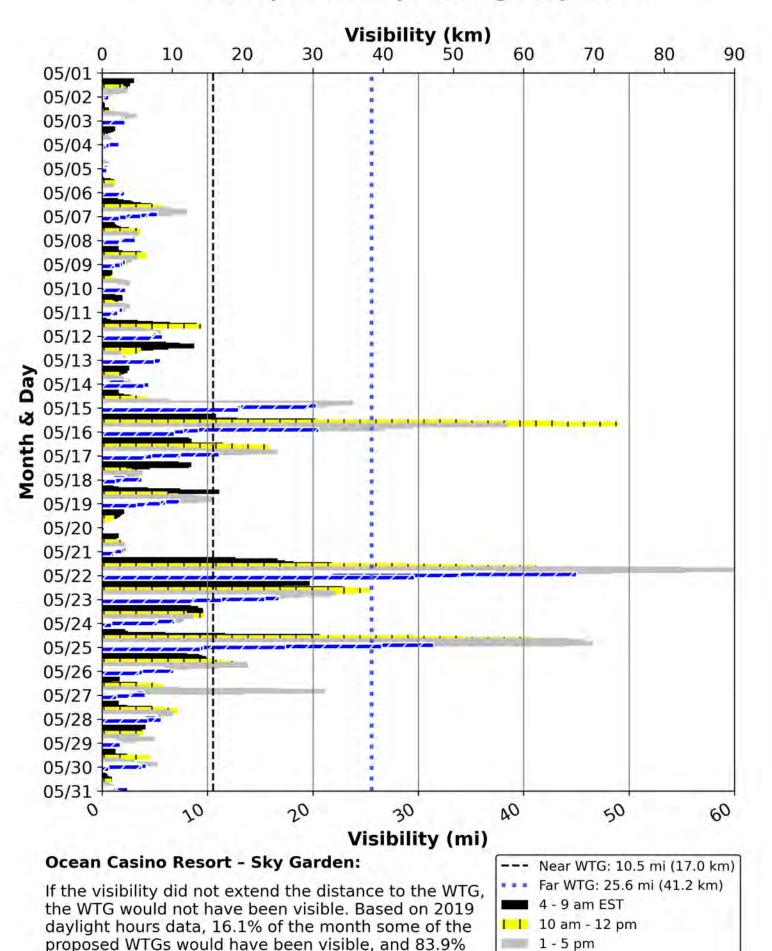
Ocean Casino Resort - Sky Garden (AC04) Hourly Visibility During Apr 2019



If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 31.3% of the month some of the proposed WTGs would have been visible, and 68.7% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 10.5 mi (17.0 km)
--- Far WTG: 25.6 mi (41.2 km)
--- 4 - 9 am EST
--- 10 am - 12 pm
--- 1 - 4 pm
--- 5 - 9 pm

Ocean Casino Resort - Sky Garden (AC04) Hourly Visibility During May 2019

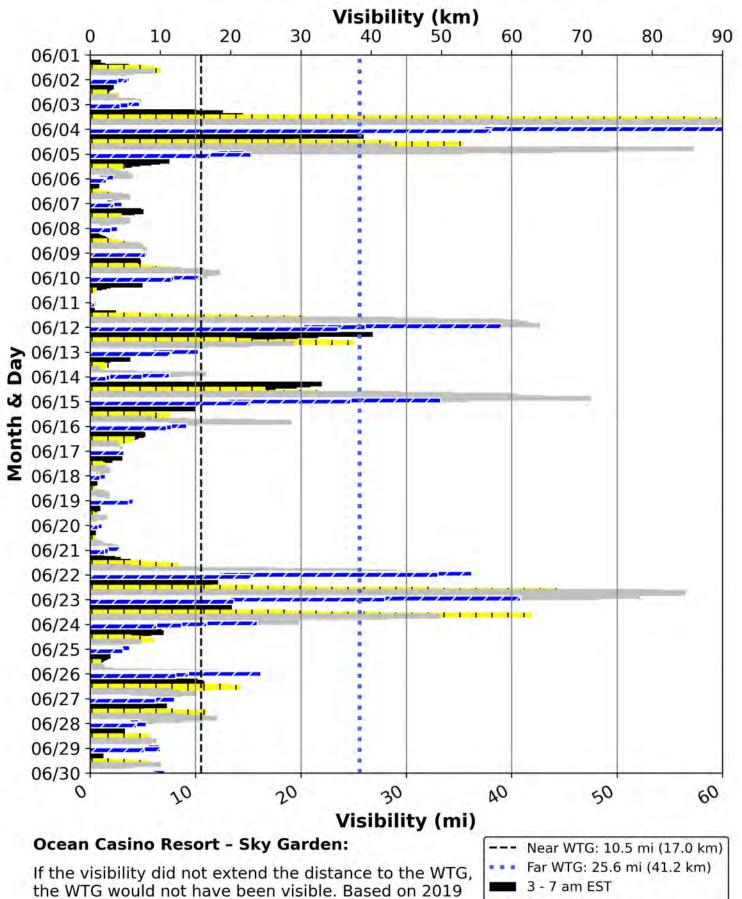


6 - 10 pm

of the month none of the proposed WTGs would have

been visible.

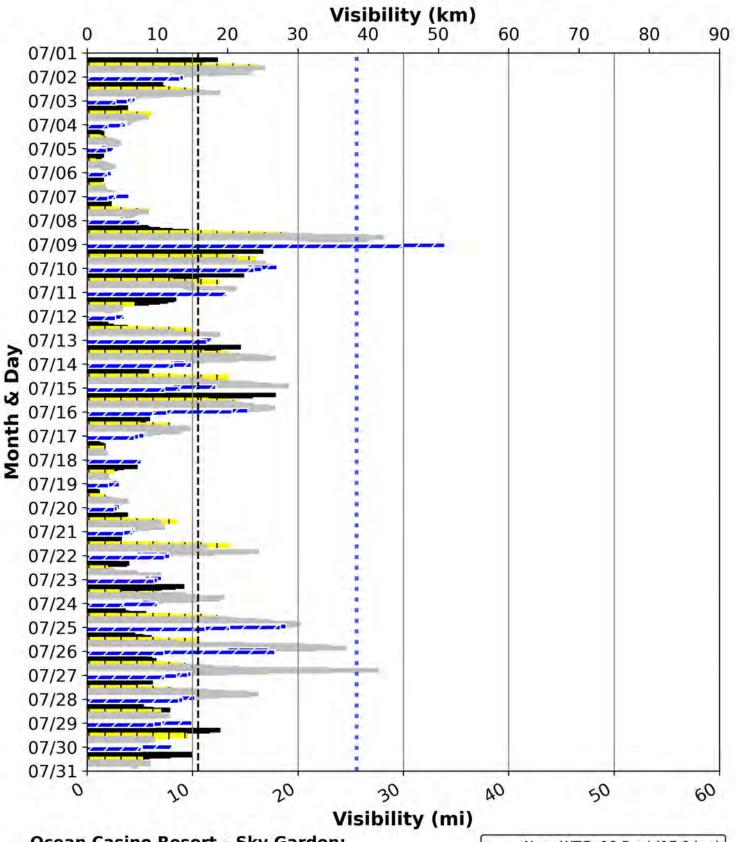
Ocean Casino Resort - Sky Garden (AC04) Hourly Visibility During Jun 2019



If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 26.8% of the month some of the proposed WTGs would have been visible, and 73.2% of the month none of the proposed WTGs would have been visible.

Far WTG: 25.6 mi (41.2 km)
3 - 7 am EST
8 - 11 am
12 - 6 pm
7 - 10 pm

Ocean Casino Resort - Sky Garden (AC04) Hourly Visibility During Jul 2019

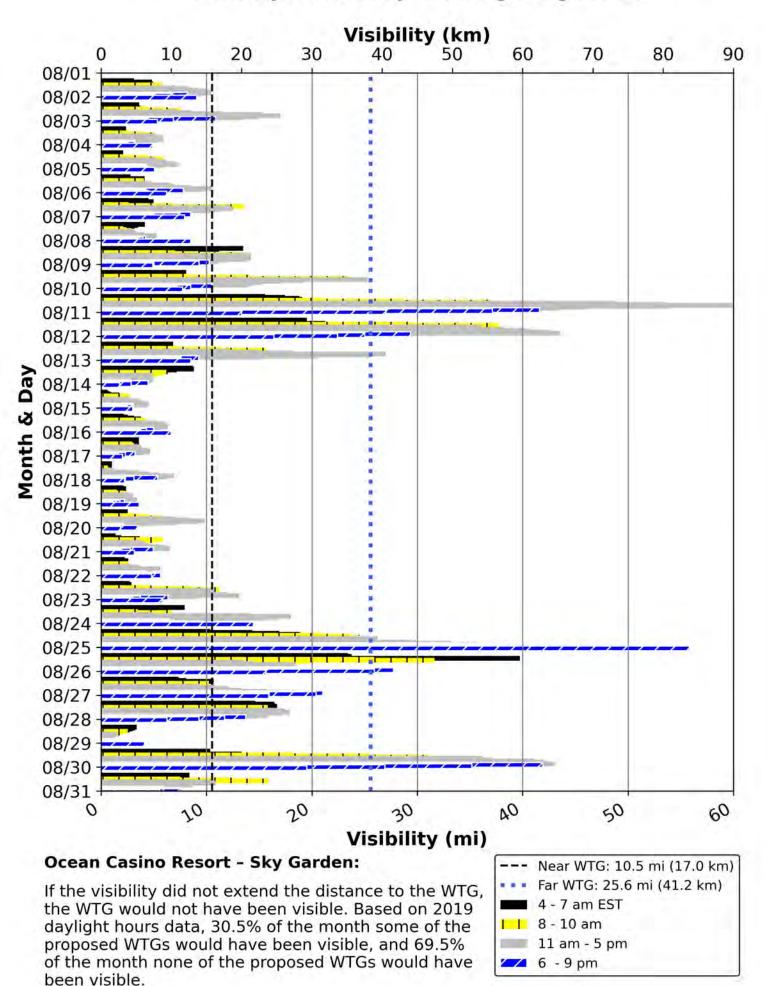


Ocean Casino Resort - Sky Garden:

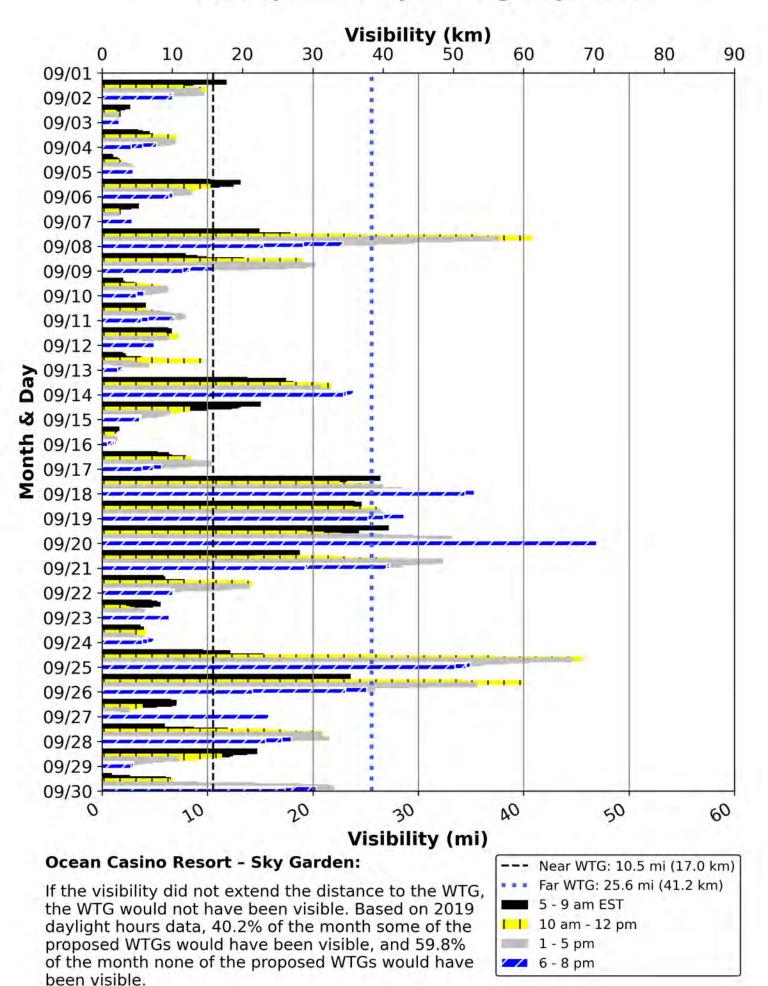
If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 24.4% of the month some of the proposed WTGs would have been visible, and 75.6% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 10.5 mi (17.0 km)
Far WTG: 25.6 mi (41.2 km)
3 - 7 am EST
8 - 10 am
11 am - 6 pm
7 - 10 pm

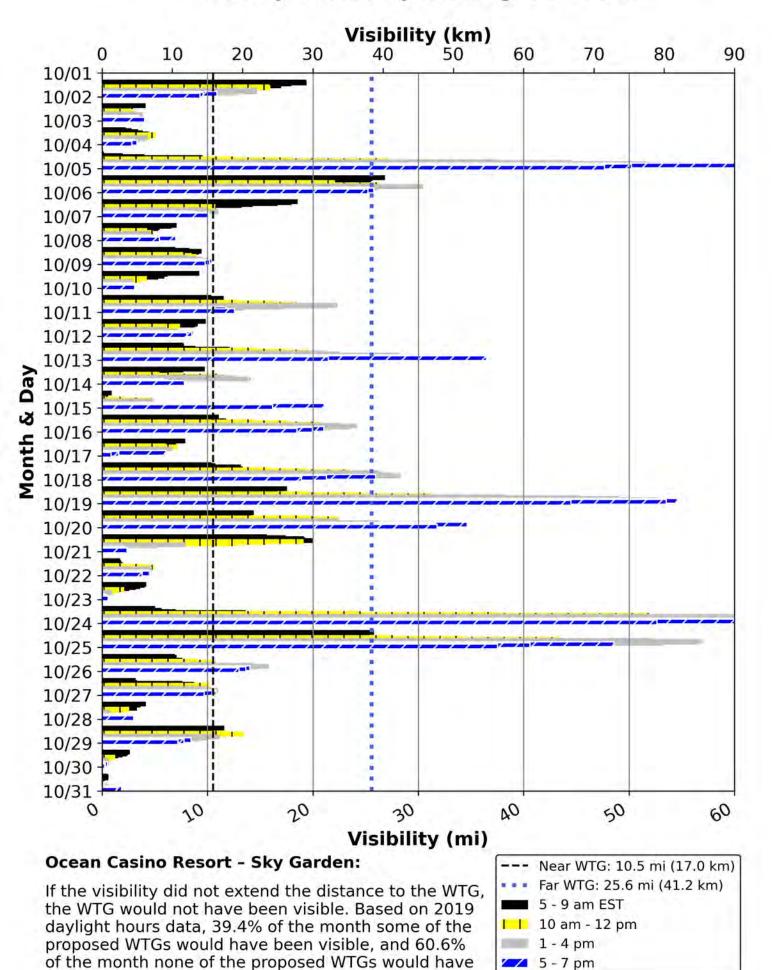
Ocean Casino Resort - Sky Garden (AC04) Hourly Visibility During Aug 2019



Ocean Casino Resort - Sky Garden (AC04) Hourly Visibility During Sep 2019

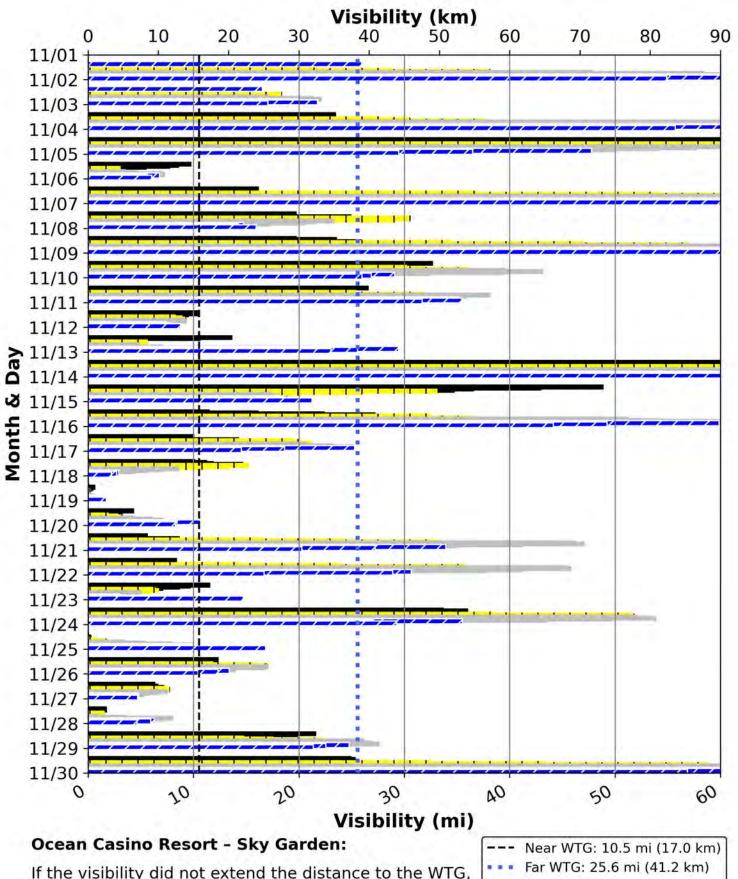


Ocean Casino Resort - Sky Garden (AC04) Hourly Visibility During Oct 2019



been visible.

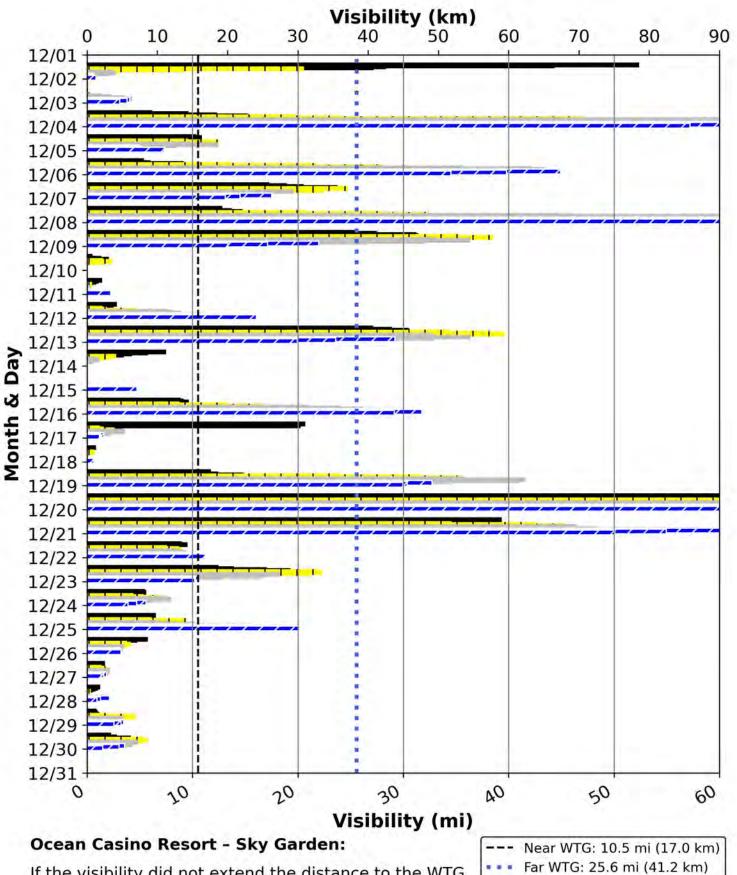
Ocean Casino Resort - Sky Garden (AC04) Hourly Visibility During Nov 2019



If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 67.8% of the month some of the proposed WTGs would have been visible, and 32.2% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 10.5 mi (17.0 km)
--- Far WTG: 25.6 mi (41.2 km)
5 - 8 am EST
--- 11 am
--- 12 - 3 pm
--- 4 - 6 pm

Ocean Casino Resort - Sky Garden (AC04) Hourly Visibility During Dec 2019



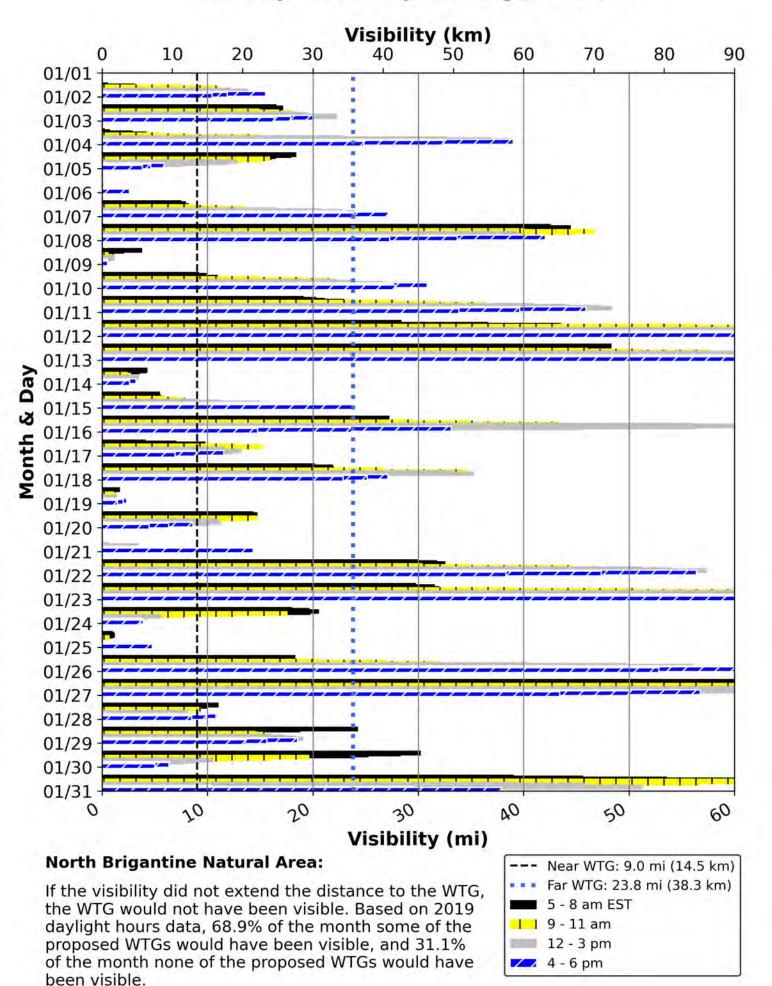
If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 39.6% of the month some of the proposed WTGs would have been visible, and 60.4% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 10.5 mi (17.0 km)
--- Far WTG: 25.6 mi (41.2 km)
--- 5 - 8 am EST
--- 9 - 11 am
--- 12 - 3 pm
--- 4 - 6 pm

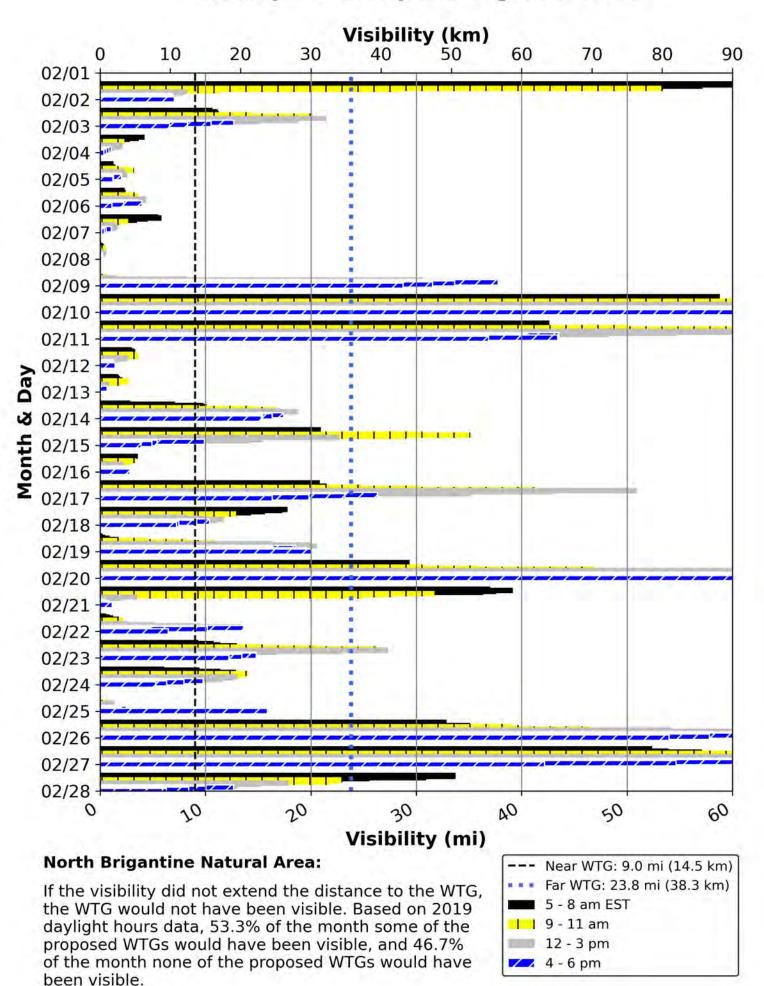
BC02

NORTH BRIGANTINE NATURAL AREA

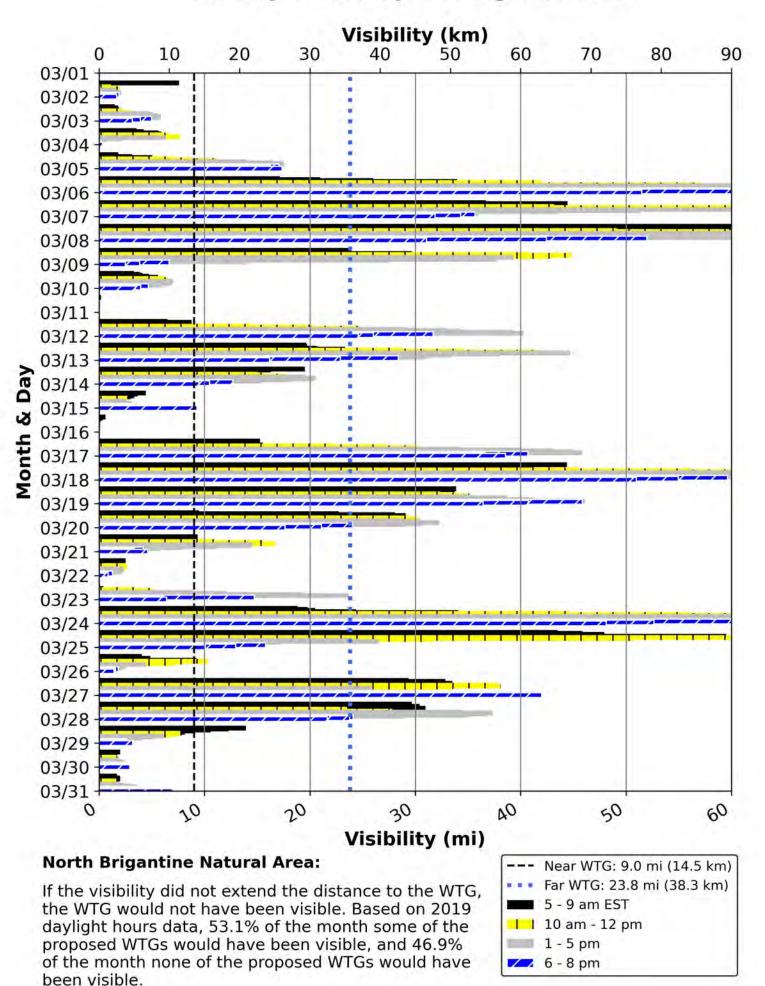
North Brigantine Natural Area (BC02) Hourly Visibility During Jan 2019



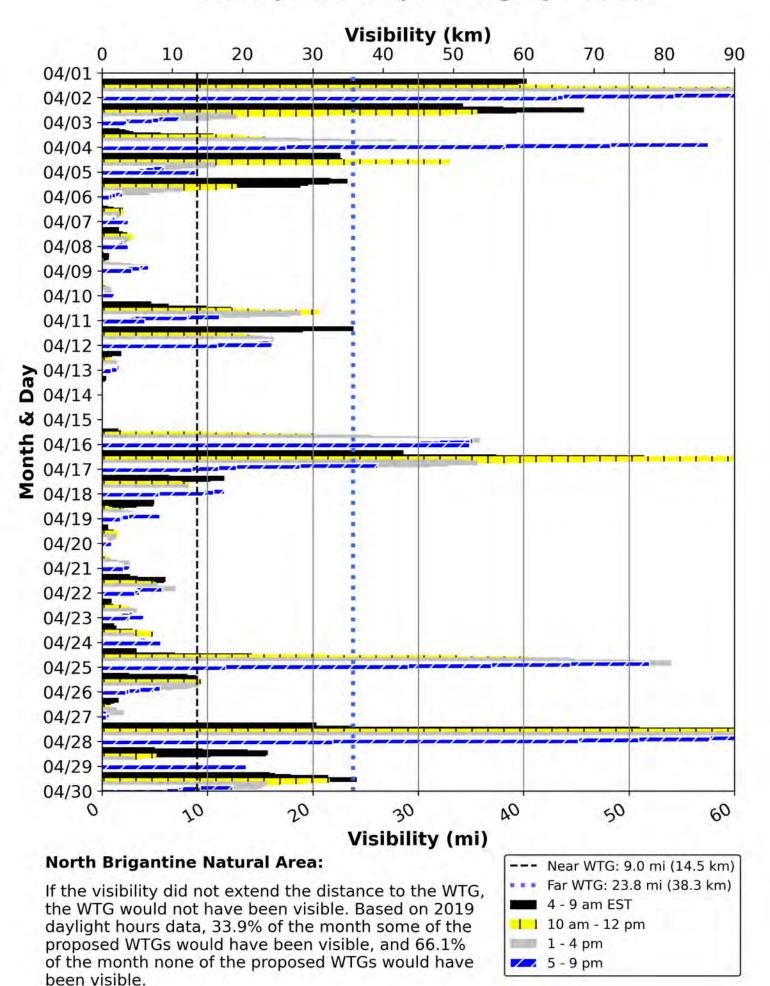
North Brigantine Natural Area (BC02) Hourly Visibility During Feb 2019



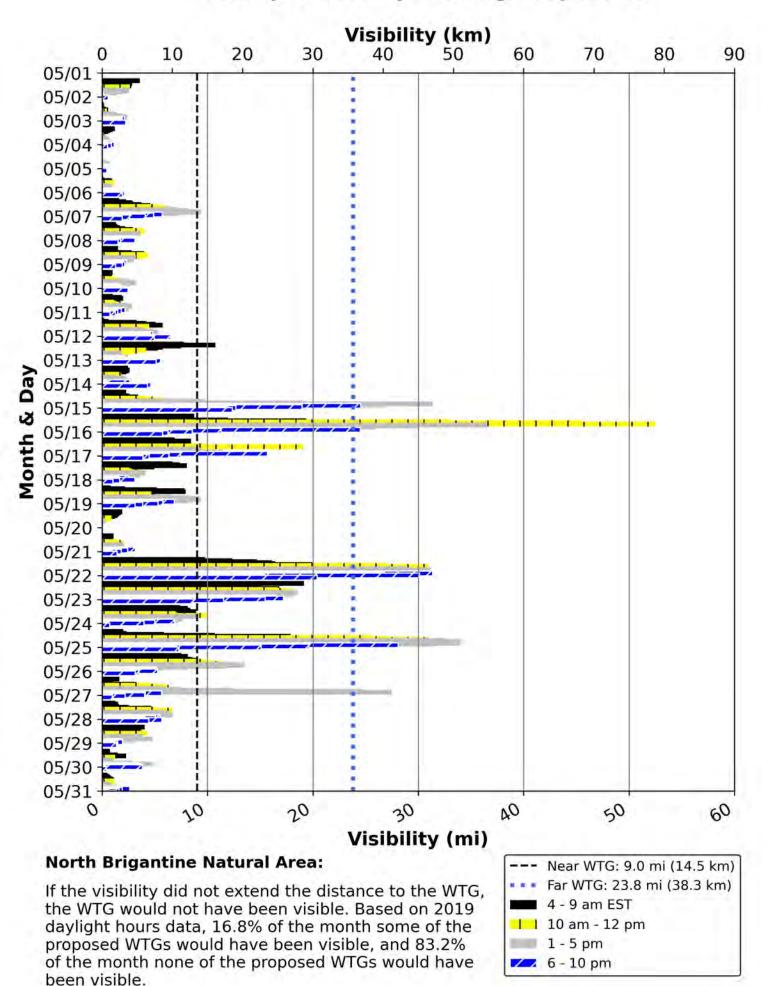
North Brigantine Natural Area (BC02) Hourly Visibility During Mar 2019



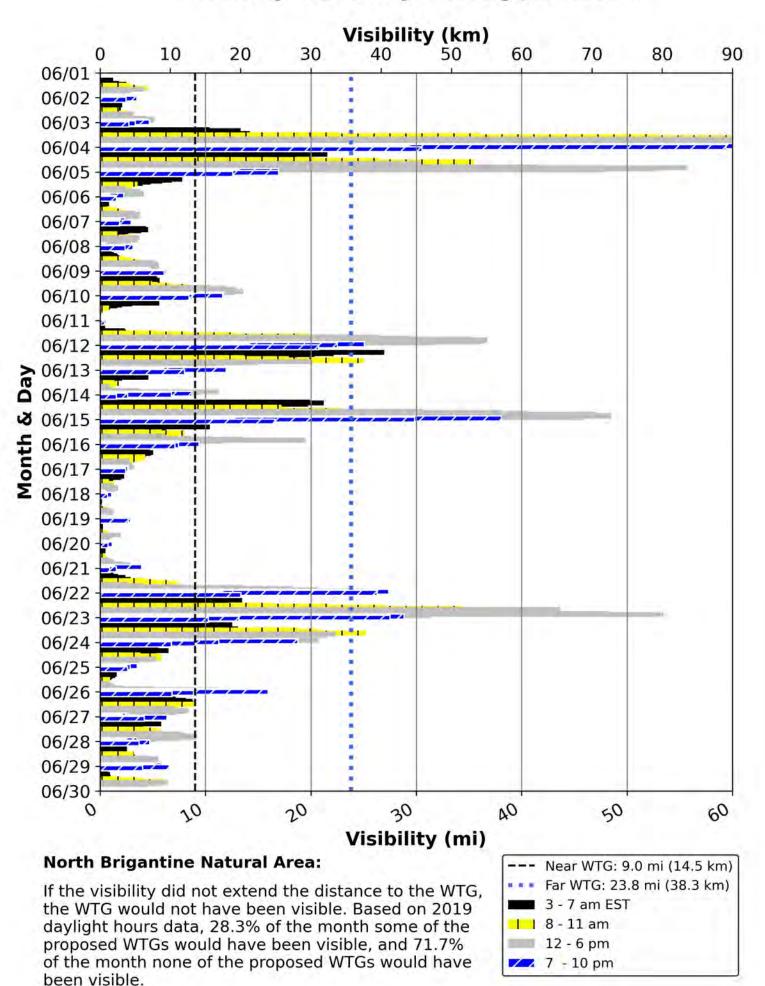
North Brigantine Natural Area (BC02) Hourly Visibility During Apr 2019



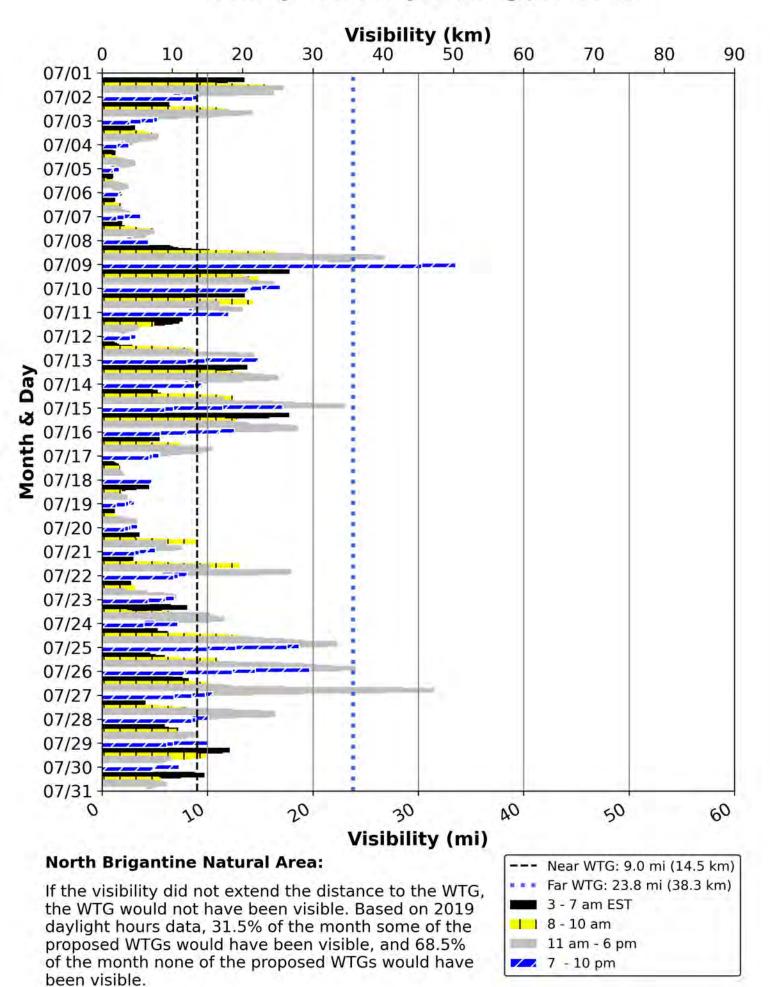
North Brigantine Natural Area (BC02) Hourly Visibility During May 2019



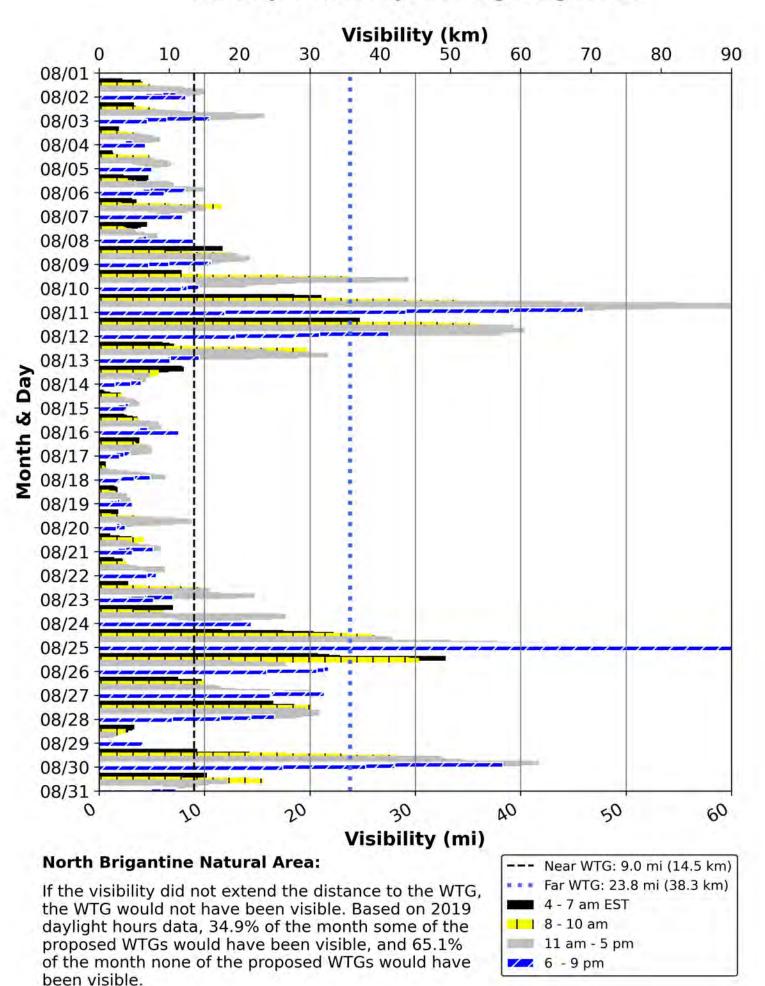
North Brigantine Natural Area (BC02) Hourly Visibility During Jun 2019



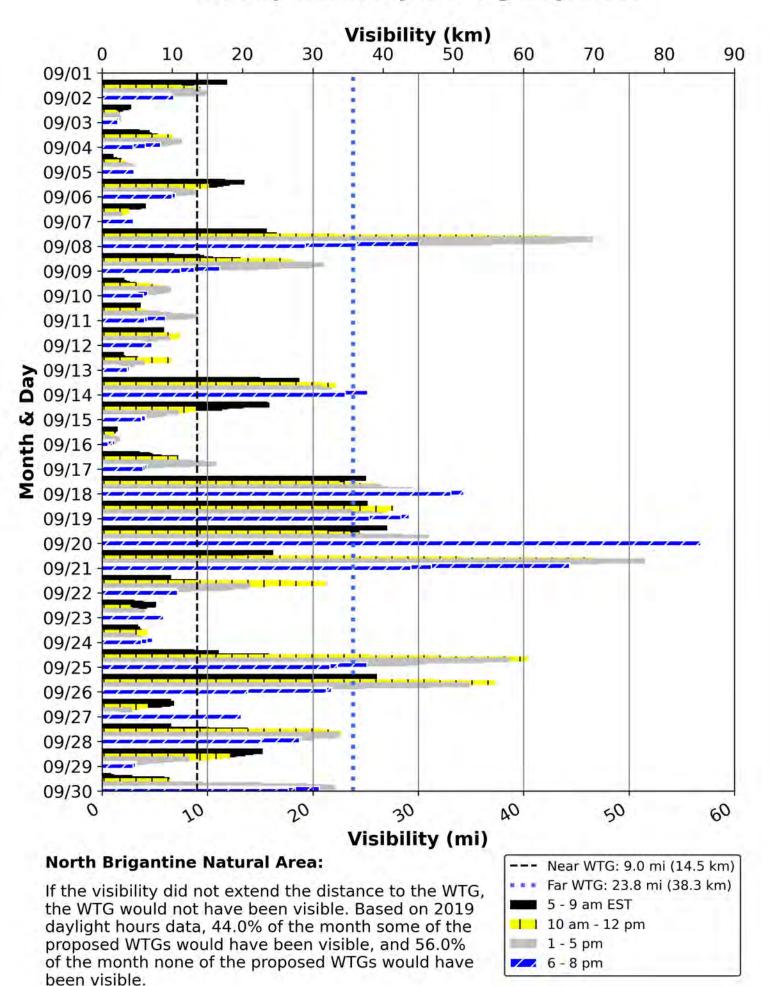
North Brigantine Natural Area (BC02) Hourly Visibility During Jul 2019



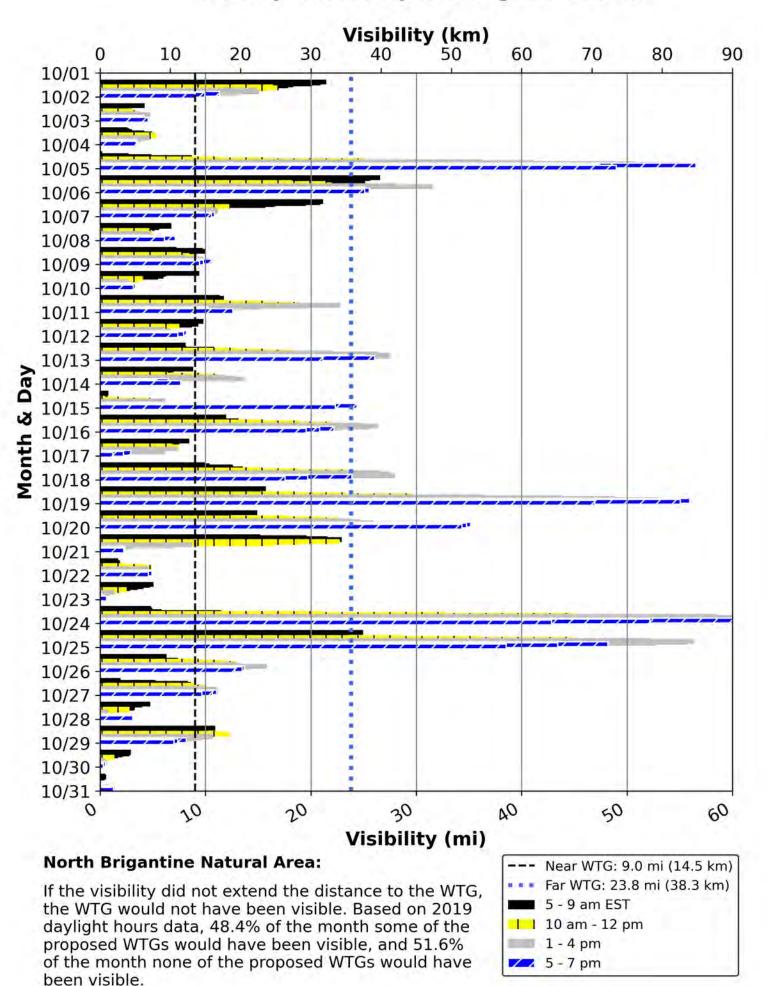
North Brigantine Natural Area (BC02) Hourly Visibility During Aug 2019



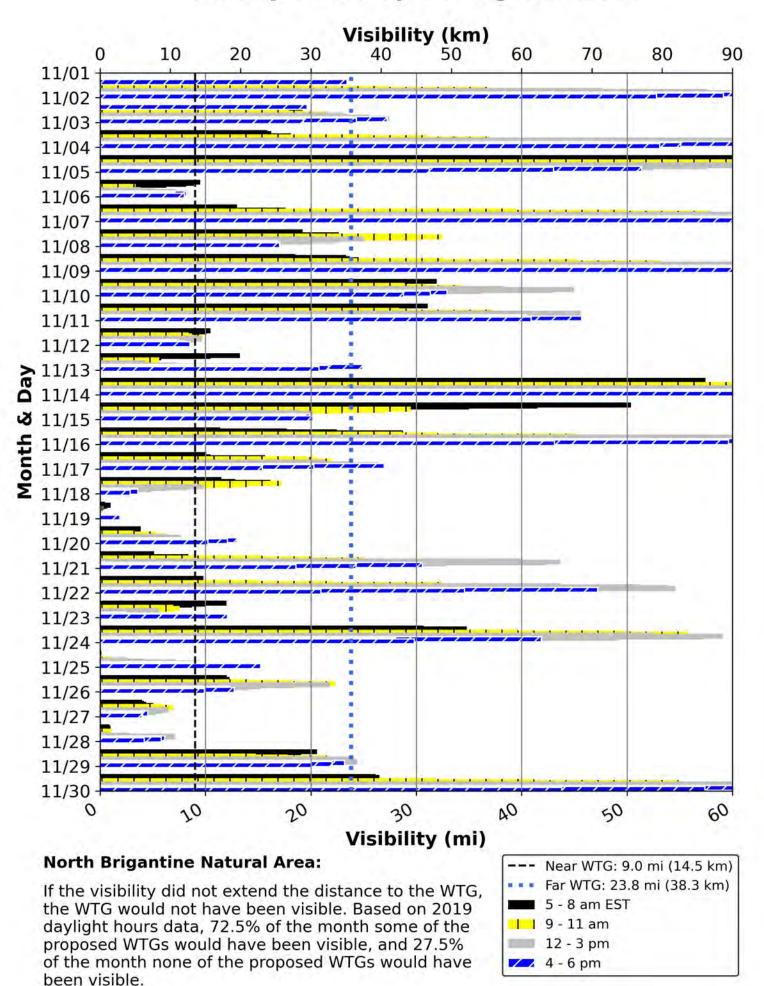
North Brigantine Natural Area (BC02) Hourly Visibility During Sep 2019



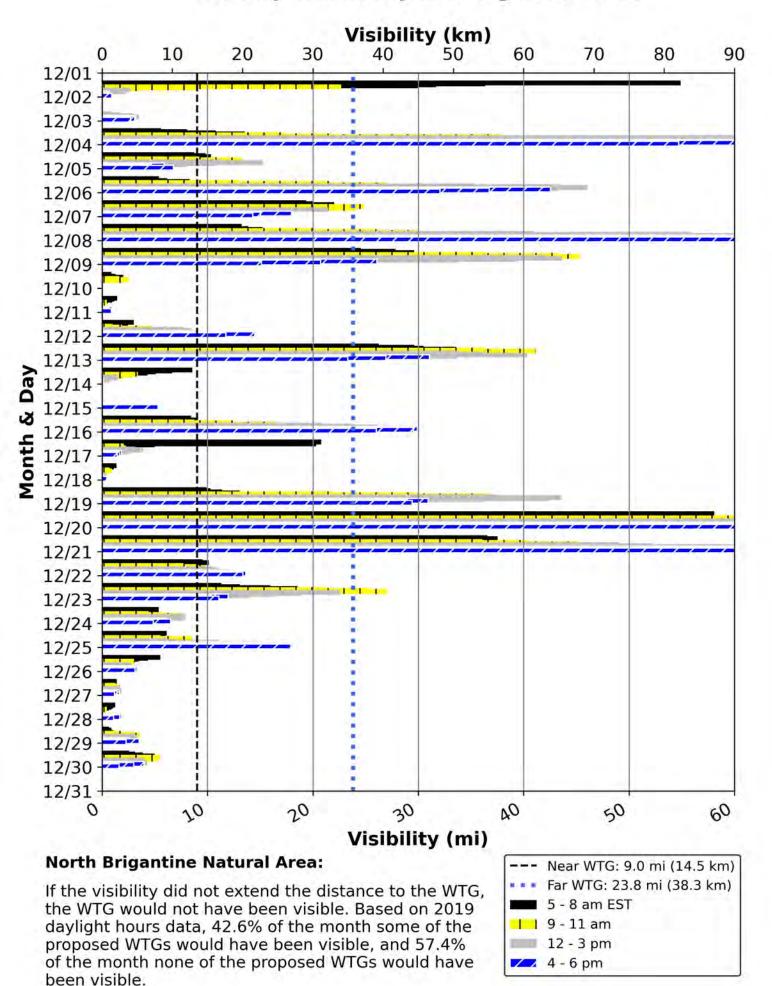
North Brigantine Natural Area (BC02) Hourly Visibility During Oct 2019



North Brigantine Natural Area (BC02) Hourly Visibility During Nov 2019



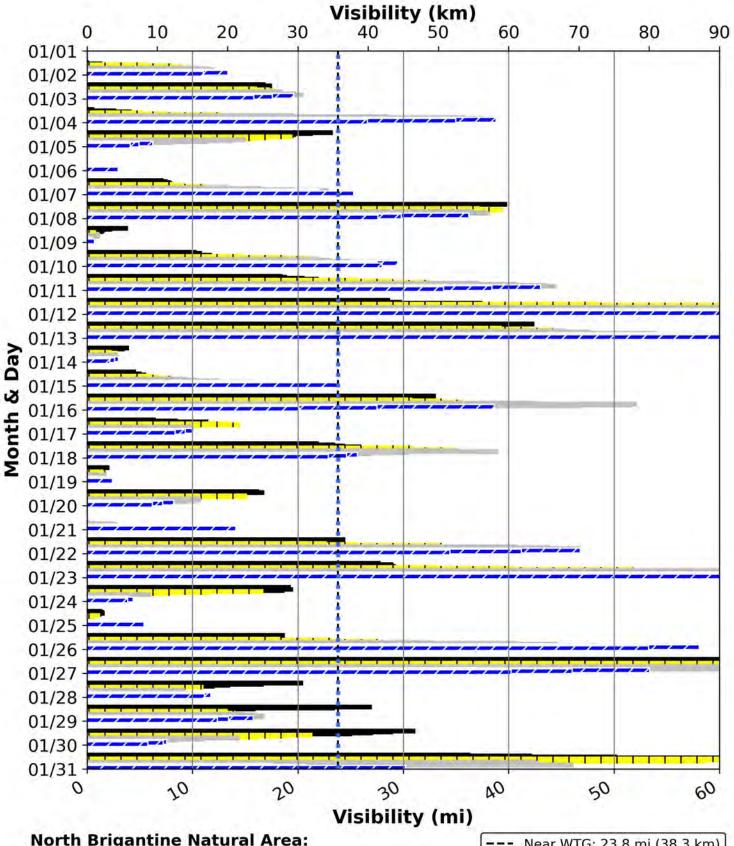
North Brigantine Natural Area (BC02) Hourly Visibility During Dec 2019



BC02F

NORTH BRIGANTINE NATURAL AREA

North Brigantine Natural Area (BC02F) **Hourly Visibility During Jan 2019**

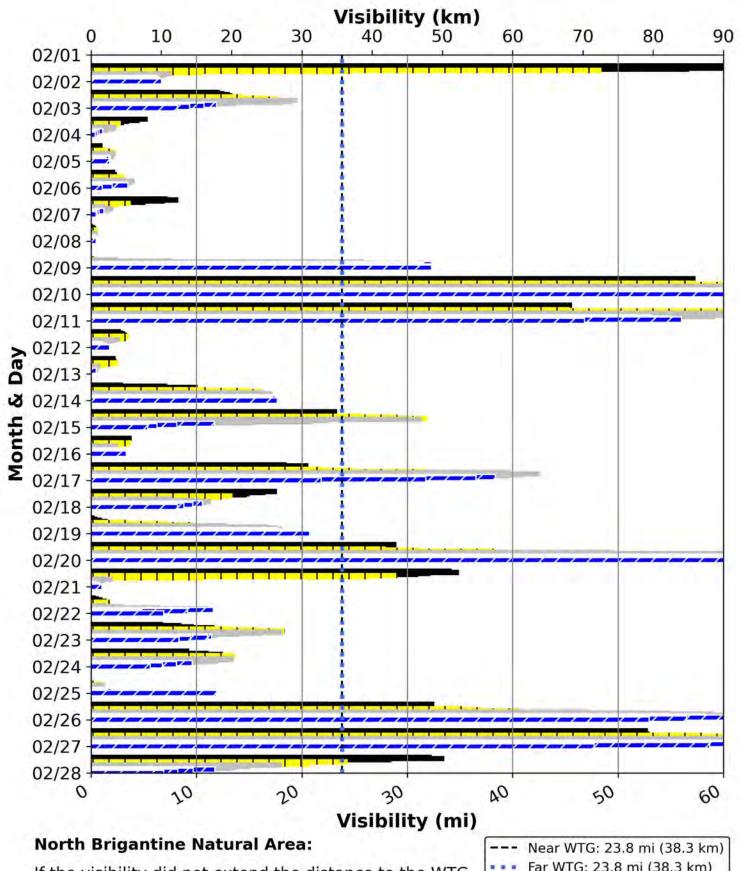


North Brigantine Natural Area:

If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 38.5% of the month some of the proposed WTGs would have been visible, and 61.5% of the month none of the proposed WTGs would have been visible.

Near WTG: 23.8 mi (38.3 km) Far WTG: 23.8 mi (38.3 km) 5 - 8 am EST 9 - 11 am 12 - 3 pm 4 - 6 pm

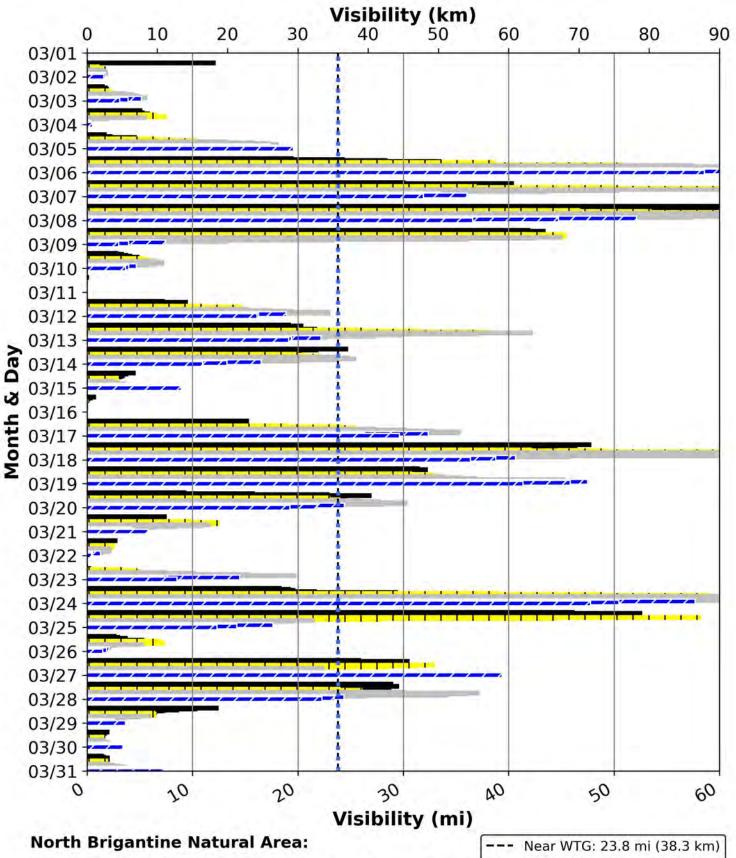
North Brigantine Natural Area (BC02F) Hourly Visibility During Feb 2019



If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 27.6% of the month some of the proposed WTGs would have been visible, and 72.4% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 23.8 mi (38.3 km)
--- Far WTG: 23.8 mi (38.3 km)
--- 5 - 8 am EST
--- 9 - 11 am
--- 12 - 3 pm
--- 4 - 6 pm

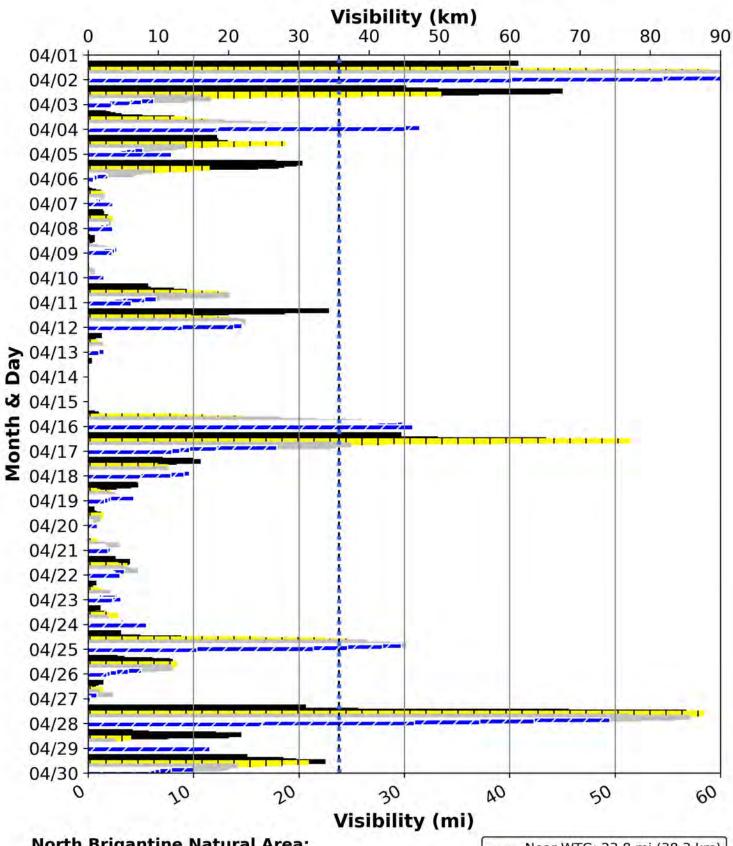
North Brigantine Natural Area (BC02F) Hourly Visibility During Mar 2019



If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 33.2% of the month some of the proposed WTGs would have been visible, and 66.8% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 23.8 mi (38.3 km)
--- Far WTG: 23.8 mi (38.3 km)
--- 5 - 9 am EST
--- 10 am - 12 pm
--- 1 - 5 pm
--- 6 - 8 pm

North Brigantine Natural Area (BC02F) **Hourly Visibility During Apr 2019**

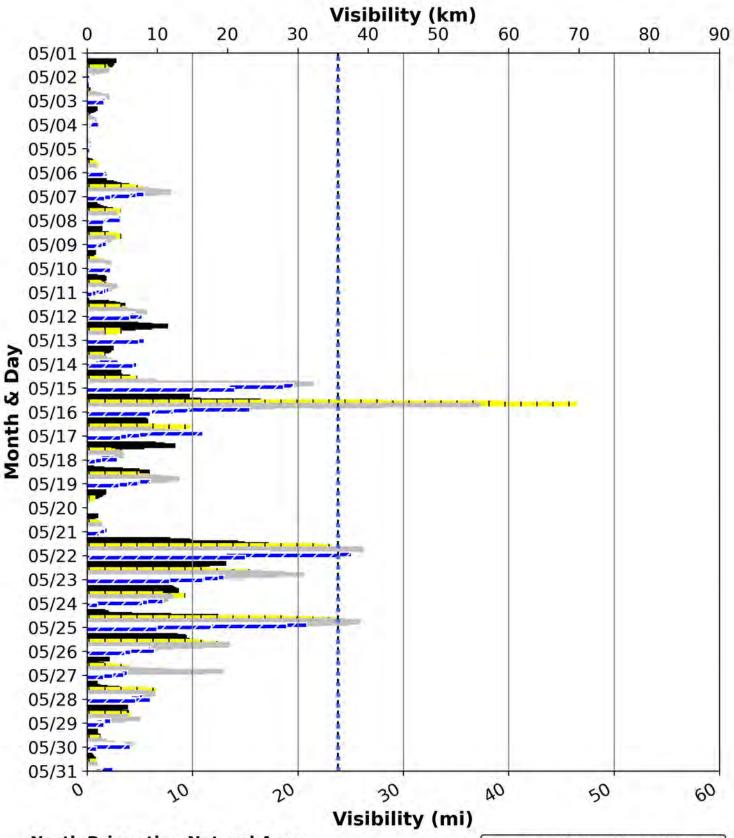


North Brigantine Natural Area:

If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 12.8% of the month some of the proposed WTGs would have been visible, and 87.2% of the month none of the proposed WTGs would have been visible.

Near WTG: 23.8 mi (38.3 km) Far WTG: 23.8 mi (38.3 km) 4 - 9 am EST 10 am - 12 pm 1 - 4 pm √ 5 - 9 pm

North Brigantine Natural Area (BC02F) Hourly Visibility During May 2019

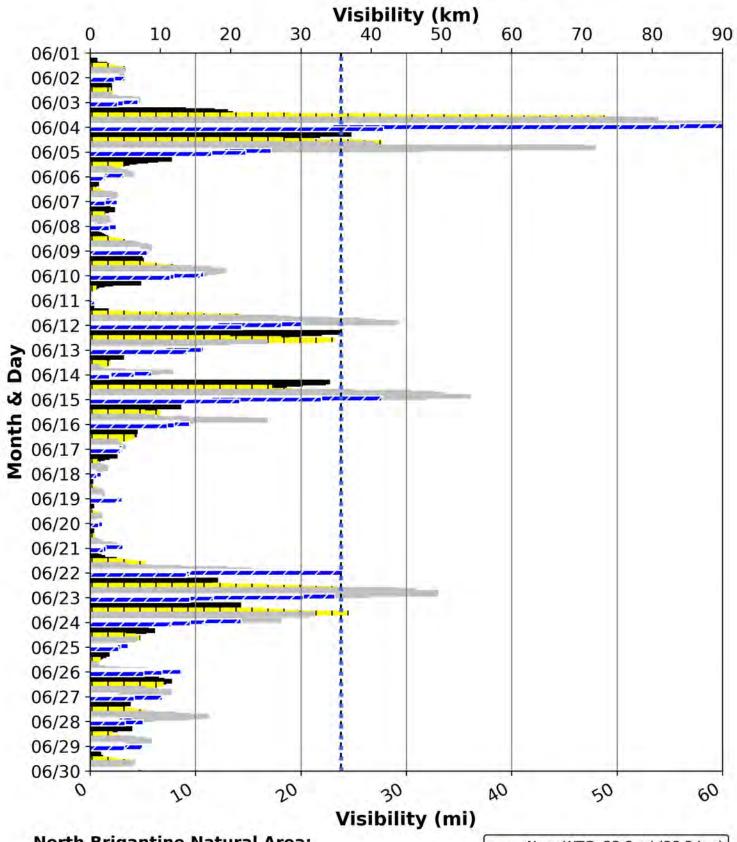


North Brigantine Natural Area:

If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 2.4% of the month some of the proposed WTGs would have been visible, and 97.6% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 23.8 mi (38.3 km)
--- Far WTG: 23.8 mi (38.3 km)
--- 4 - 9 am EST
--- 10 am - 12 pm
--- 1 - 5 pm
--- 6 - 10 pm

North Brigantine Natural Area (BC02F) Hourly Visibility During Jun 2019

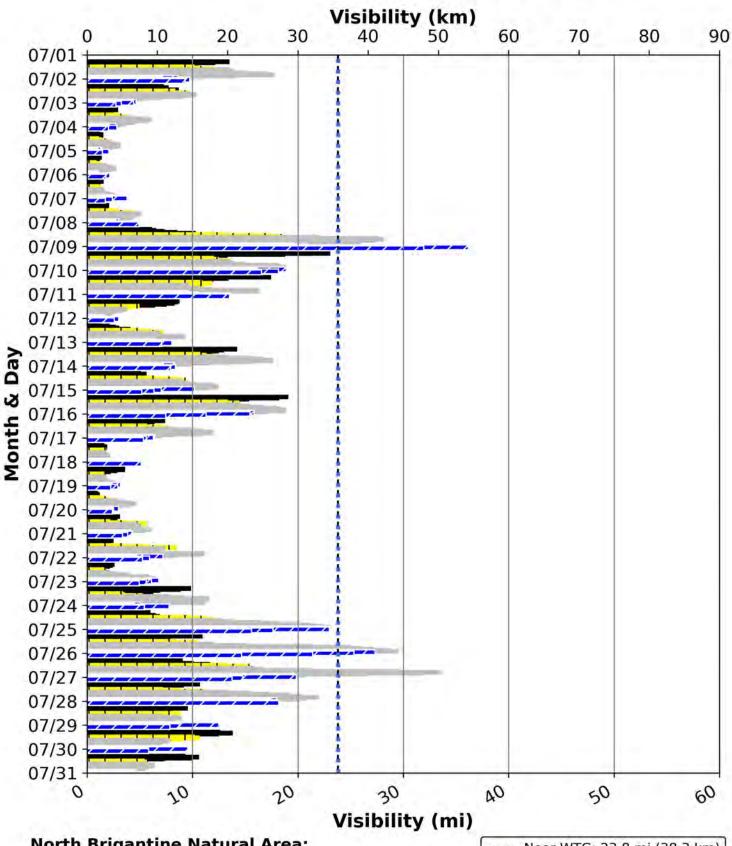


North Brigantine Natural Area:

If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 8.0% of the month some of the proposed WTGs would have been visible, and 92.0% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 23.8 mi (38.3 km)
--- Far WTG: 23.8 mi (38.3 km)
3 - 7 am EST
--- 8 - 11 am
--- 12 - 6 pm
7 - 10 pm

North Brigantine Natural Area (BC02F) **Hourly Visibility During Jul 2019**

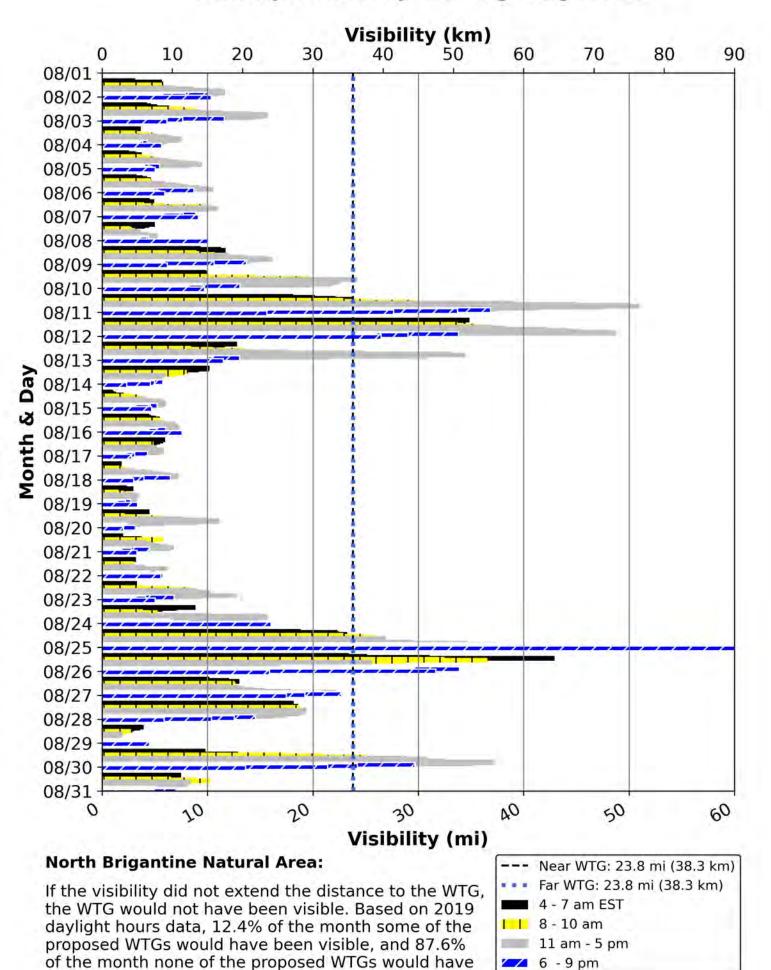


North Brigantine Natural Area:

If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 2.9% of the month some of the proposed WTGs would have been visible, and 97.1% of the month none of the proposed WTGs would have been visible.

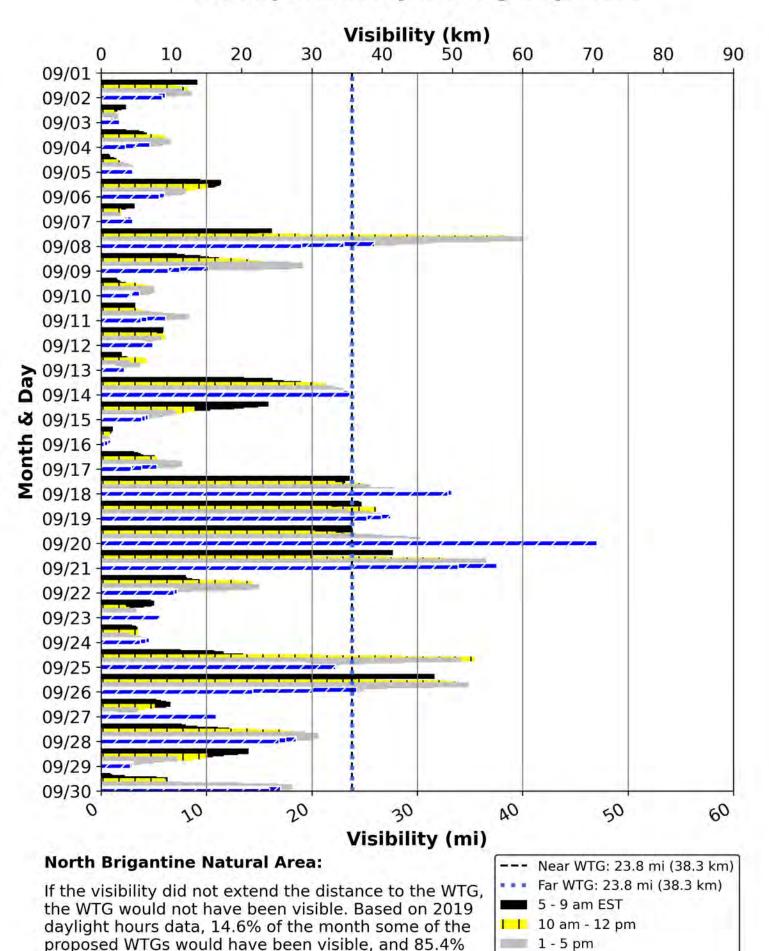
Near WTG: 23.8 mi (38.3 km) Far WTG: 23.8 mi (38.3 km) 3 - 7 am EST | 8 - 10 am 11 am - 6 pm 7 - 10 pm

North Brigantine Natural Area (BC02F) Hourly Visibility During Aug 2019



been visible.

North Brigantine Natural Area (BC02F) Hourly Visibility During Sep 2019

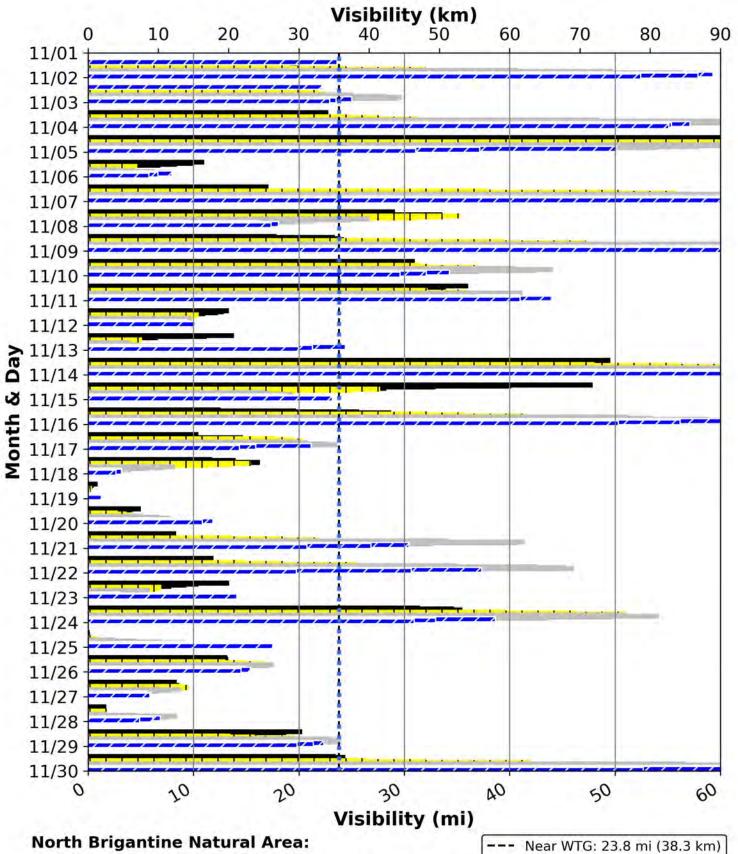


6 - 8 pm

of the month none of the proposed WTGs would have

been visible.

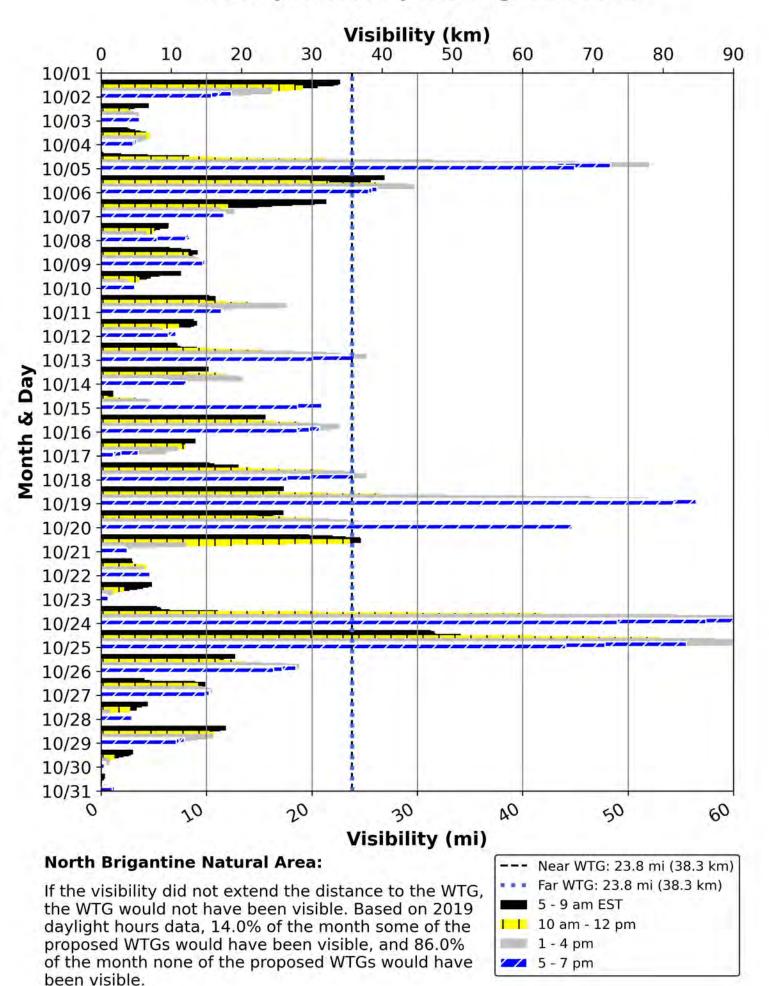
North Brigantine Natural Area (BC02F) Hourly Visibility During Nov 2019



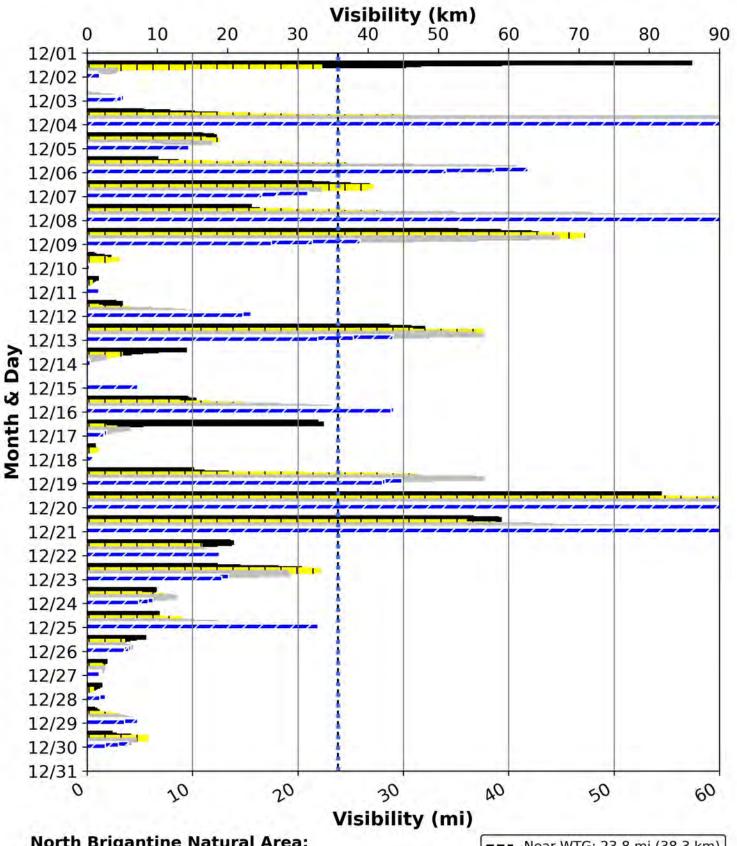
If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 42.7% of the month some of the proposed WTGs would have been visible, and 57.3% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 23.8 mi (38.3 km)
Far WTG: 23.8 mi (38.3 km)
5 - 8 am EST
9 - 11 am
12 - 3 pm
4 - 6 pm

North Brigantine Natural Area (BC02F) Hourly Visibility During Oct 2019



North Brigantine Natural Area (BC02F) **Hourly Visibility During Dec 2019**



North Brigantine Natural Area:

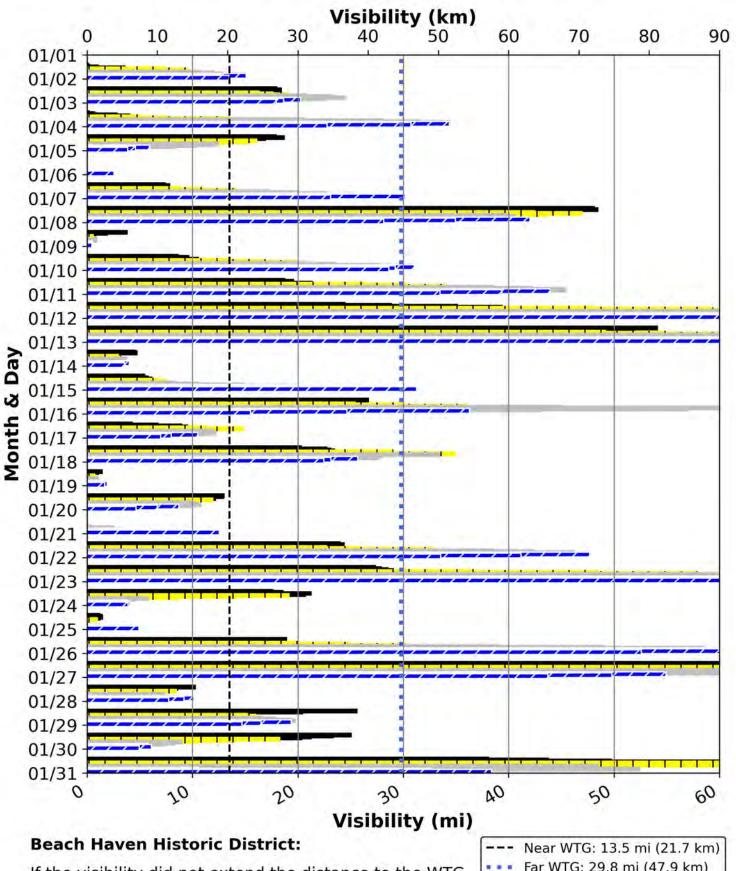
If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 23.0% of the month some of the proposed WTGs would have been visible, and 77.0% of the month none of the proposed WTGs would have been visible.

Near WTG: 23.8 mi (38.3 km) Far WTG: 23.8 mi (38.3 km) 5 - 8 am EST 9 - 11 am 12 - 3 pm 4 - 6 pm

BHB01

BEACH HAVEN HISTORIC DISTRICT

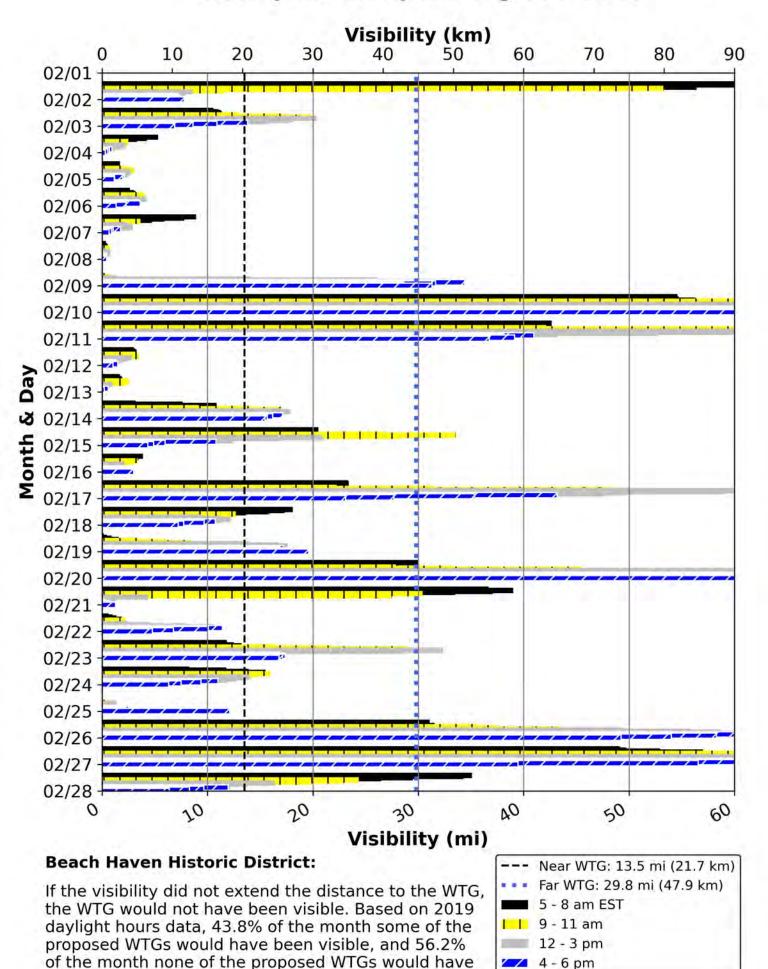
Beach Haven Historic District (BHB01) Hourly Visibility During Jan 2019



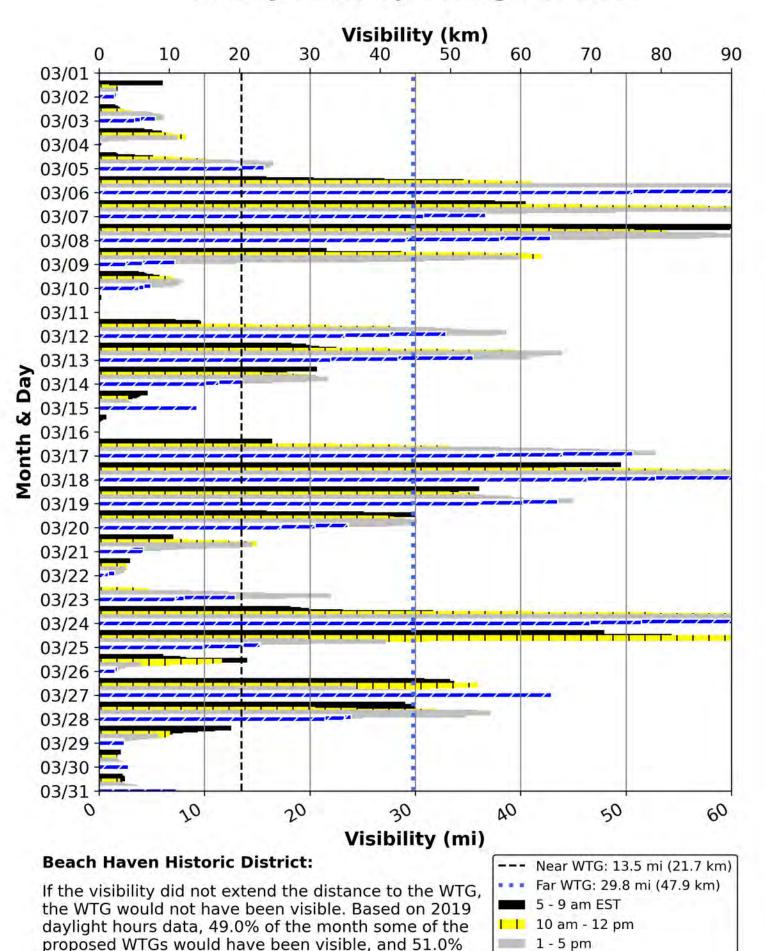
If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 56.7% of the month some of the proposed WTGs would have been visible, and 43.3% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 13.5 mi (21.7 km)
--- Far WTG: 29.8 mi (47.9 km)
--- 5 - 8 am EST
--- 11 am
--- 12 - 3 pm
--- 4 - 6 pm

Beach Haven Historic District (BHB01) Hourly Visibility During Feb 2019



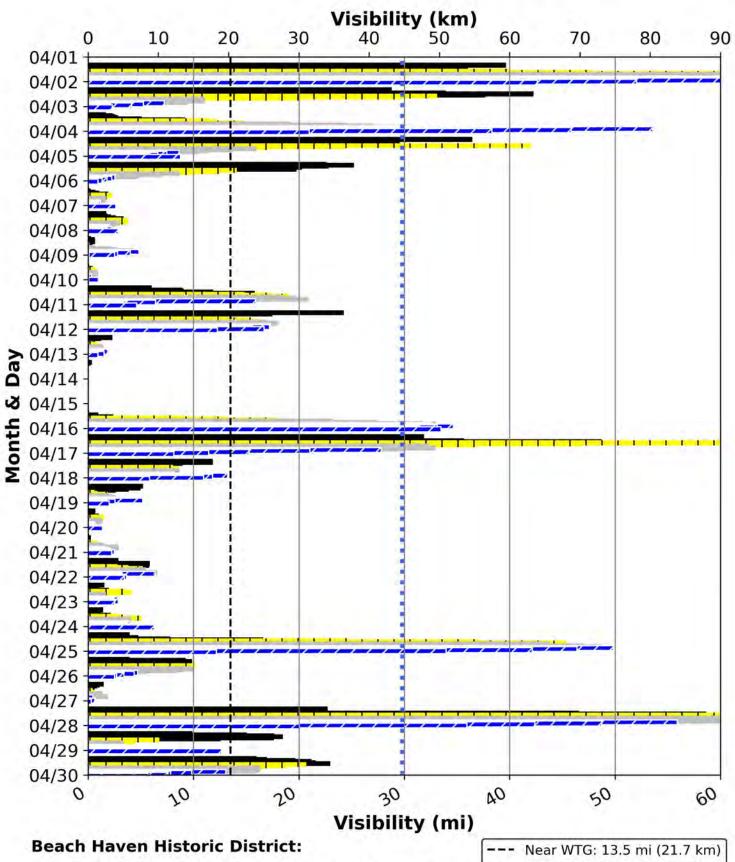
Beach Haven Historic District (BHB01) Hourly Visibility During Mar 2019



✓ 6 - 8 pm

of the month none of the proposed WTGs would have

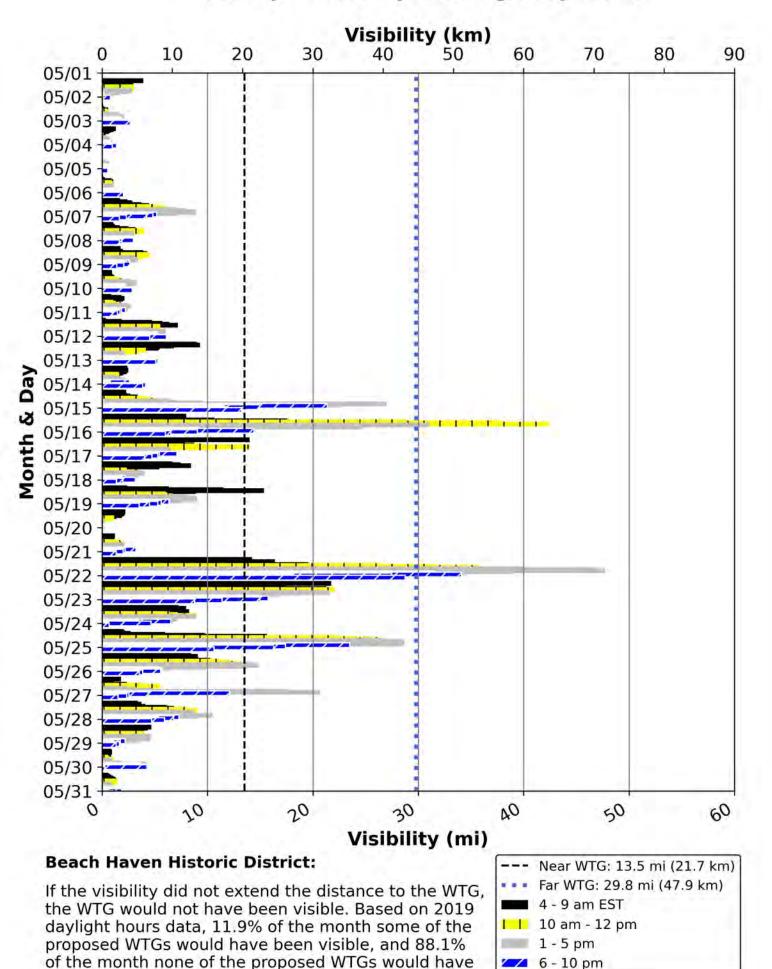
Beach Haven Historic District (BHB01) Hourly Visibility During Apr 2019



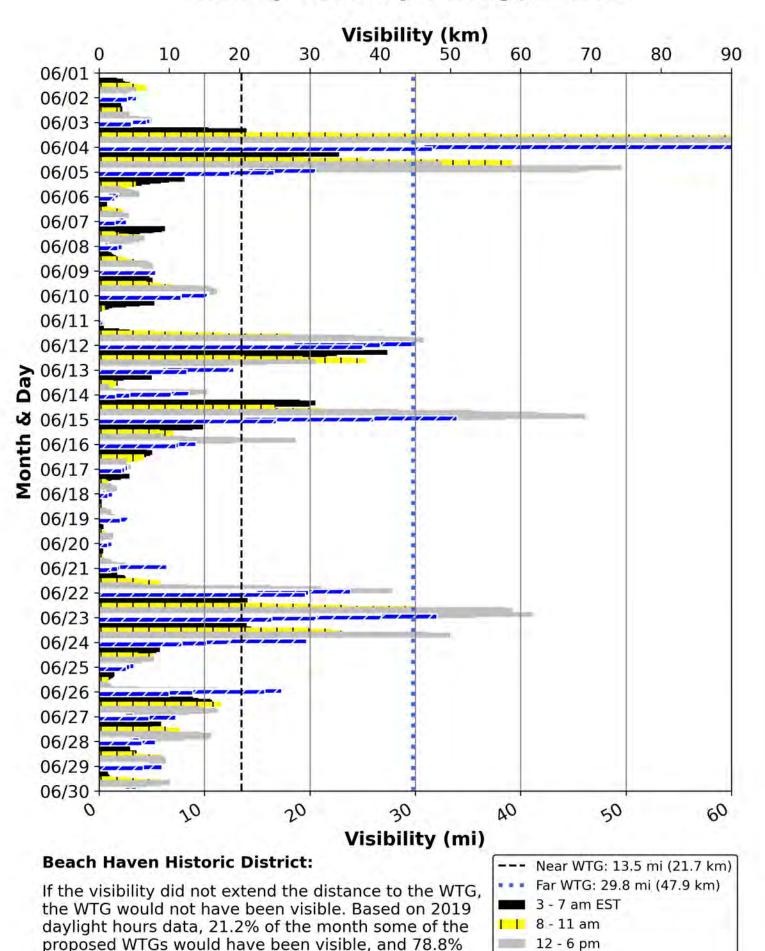
If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 27.4% of the month some of the proposed WTGs would have been visible, and 72.6% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 13.5 mi (21.7 km)
--- Far WTG: 29.8 mi (47.9 km)
4 - 9 am EST
--- 10 am - 12 pm
--- 1 - 4 pm
--- 5 - 9 pm

Beach Haven Historic District (BHB01) Hourly Visibility During May 2019



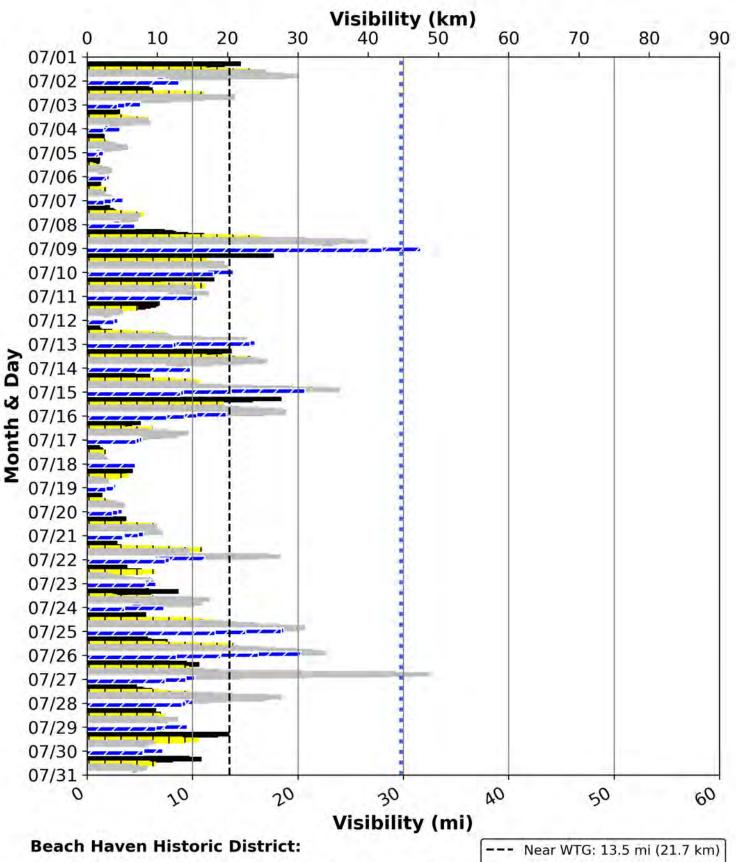
Beach Haven Historic District (BHB01) Hourly Visibility During Jun 2019



7 - 10 pm

of the month none of the proposed WTGs would have

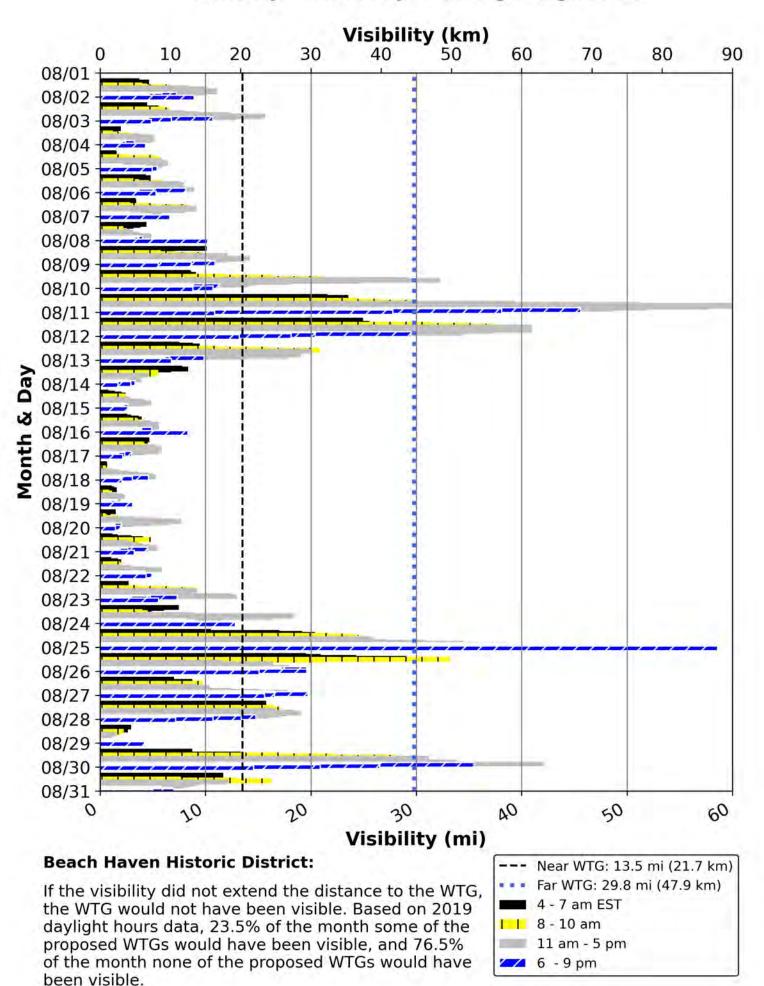
Beach Haven Historic District (BHB01) Hourly Visibility During Jul 2019



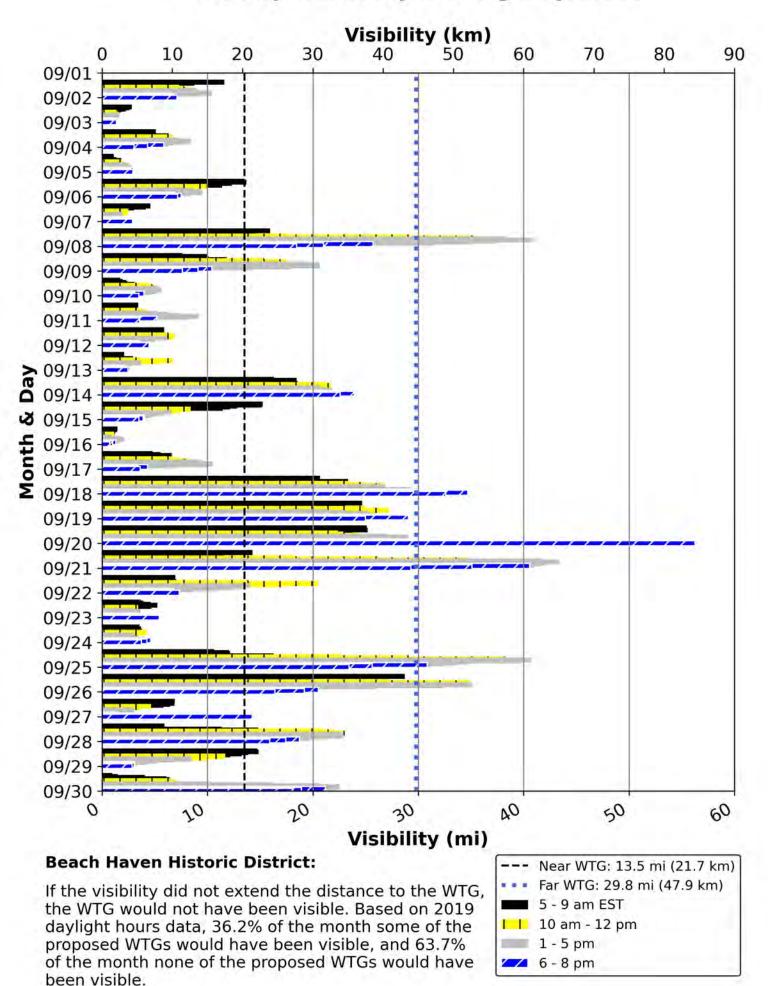
If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 14.7% of the month some of the proposed WTGs would have been visible, and 85.3% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 13.5 mi (21.7 km)
--- Far WTG: 29.8 mi (47.9 km)
--- 3 - 7 am EST
--- 8 - 10 am
--- 11 am - 6 pm
--- 7 - 10 pm

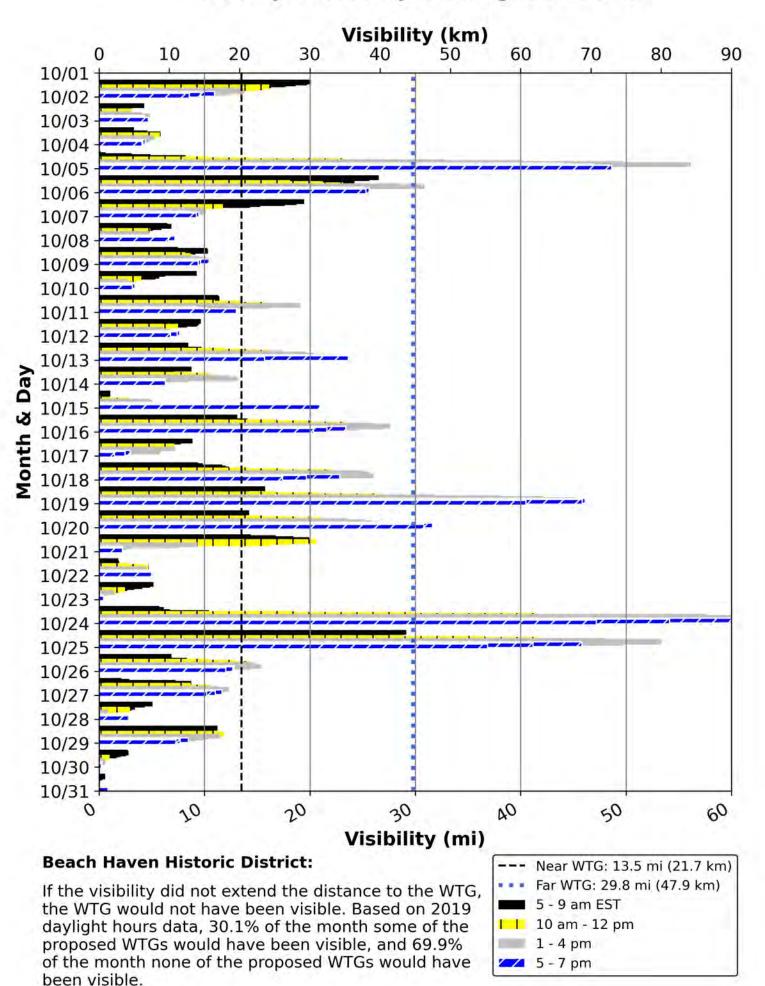
Beach Haven Historic District (BHB01) Hourly Visibility During Aug 2019



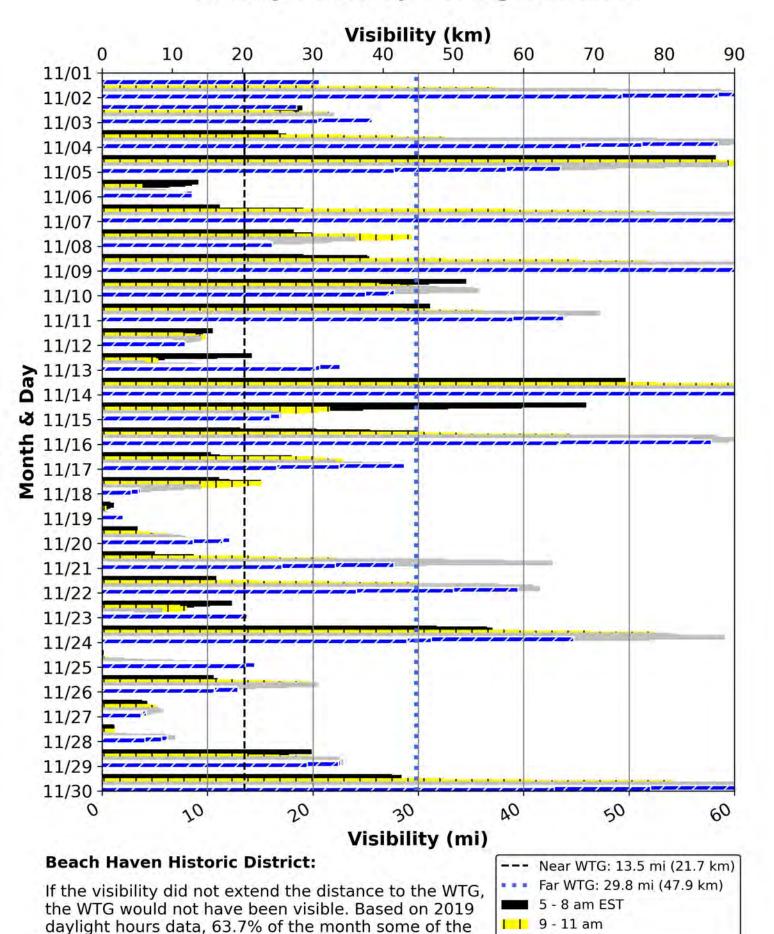
Beach Haven Historic District (BHB01) Hourly Visibility During Sep 2019



Beach Haven Historic District (BHB01) Hourly Visibility During Oct 2019



Beach Haven Historic District (BHB01) Hourly Visibility During Nov 2019



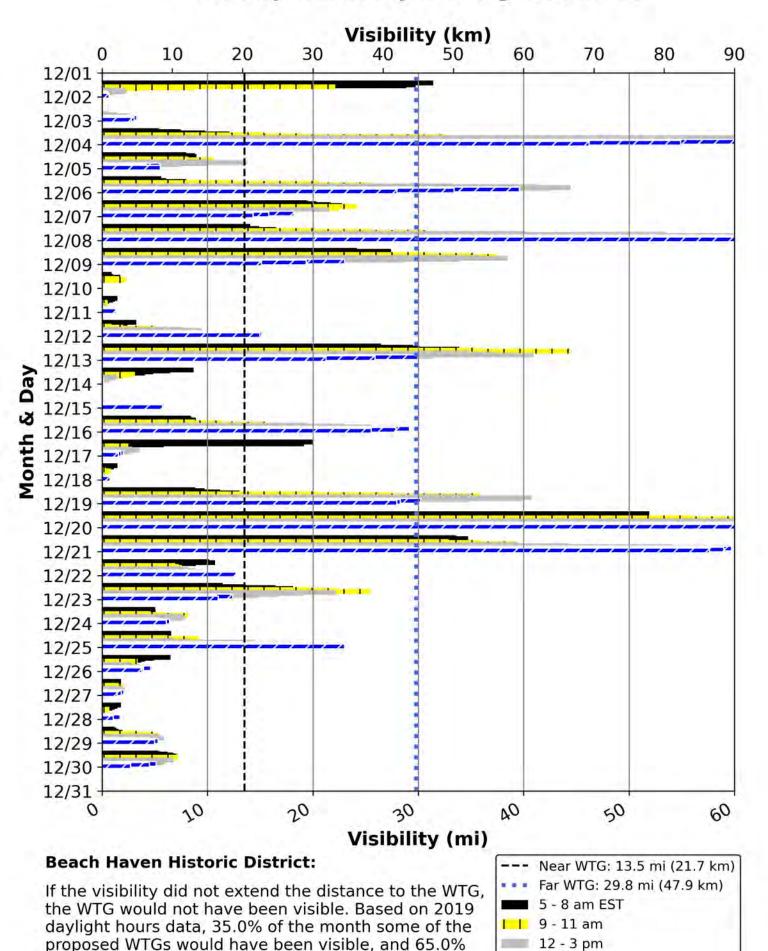
12 - 3 pm

4 - 6 pm

proposed WTGs would have been visible, and 36.3%

of the month none of the proposed WTGs would have

Beach Haven Historic District (BHB01) Hourly Visibility During Dec 2019



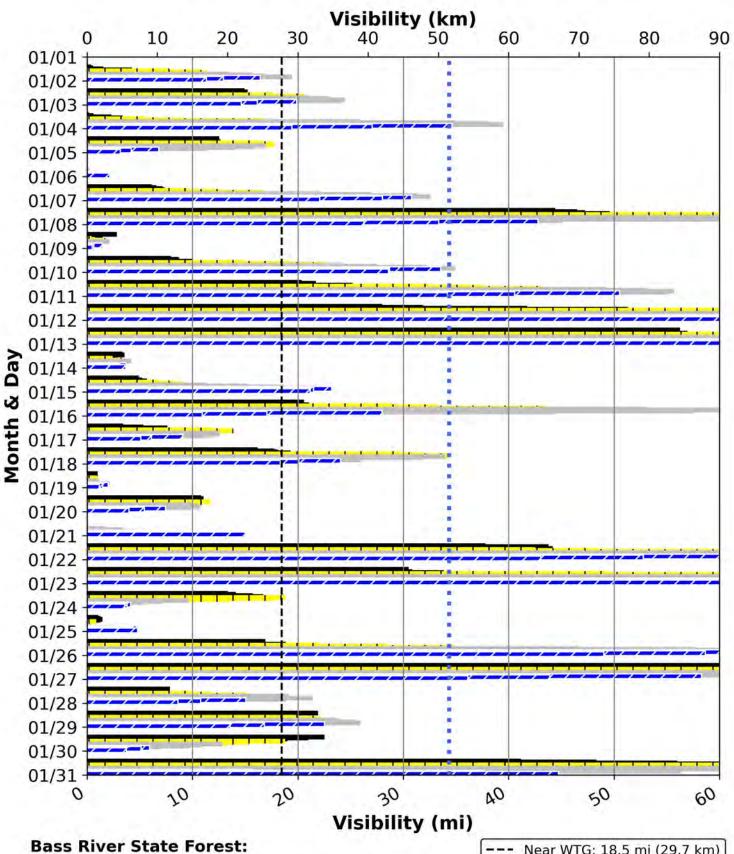
4 - 6 pm

of the month none of the proposed WTGs would have

BRT01

BASS RIVER STATE FOREST

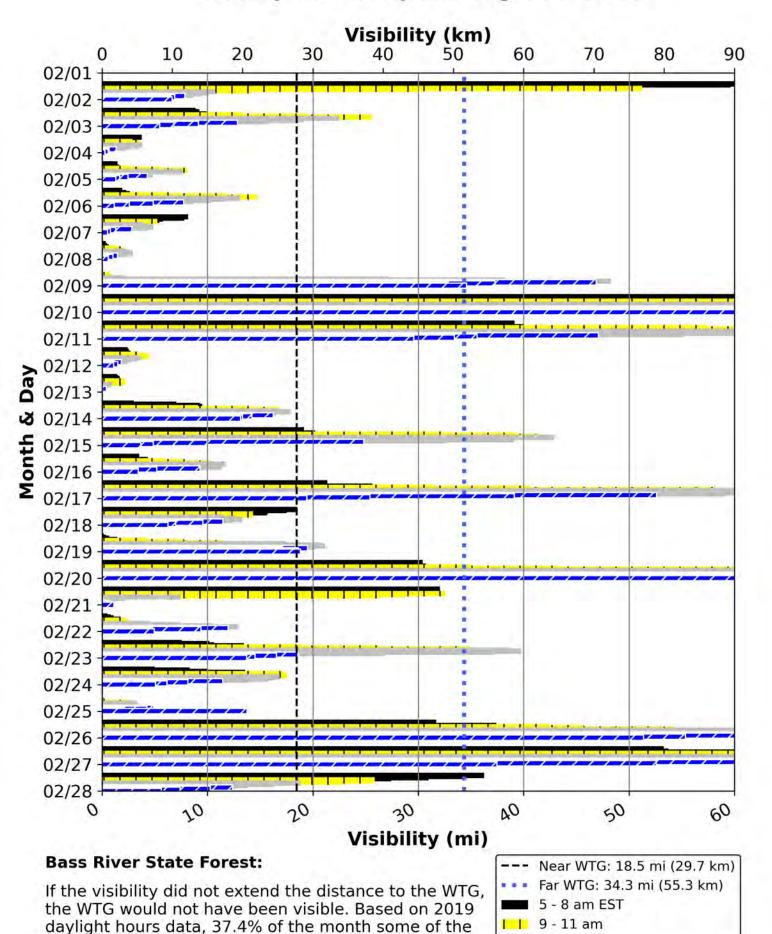
Bass River State Forest (BRT01) Hourly Visibility During Jan 2019



If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 49.1% of the month some of the proposed WTGs would have been visible, and 50.9% of the month none of the proposed WTGs would have been visible.

Near WTG: 18.5 mi (29.7 km) Far WTG: 34.3 mi (55.3 km) 5 - 8 am EST 1 9 - 11 am 12 - 3 pm 4 - 6 pm

Bass River State Forest (BRT01) Hourly Visibility During Feb 2019



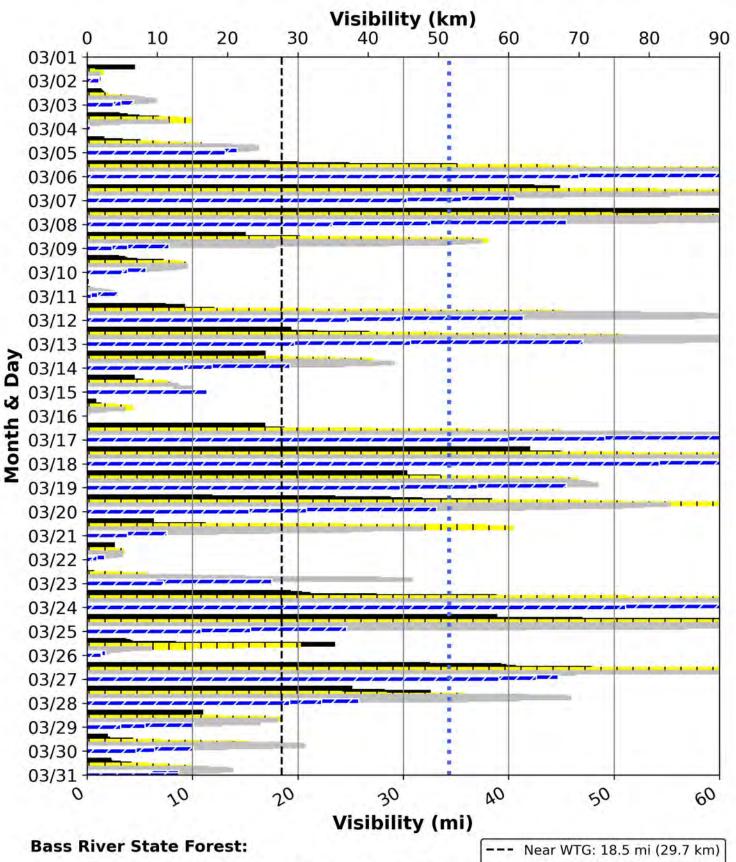
12 - 3 pm

4 - 6 pm

proposed WTGs would have been visible, and 62.6%

of the month none of the proposed WTGs would have

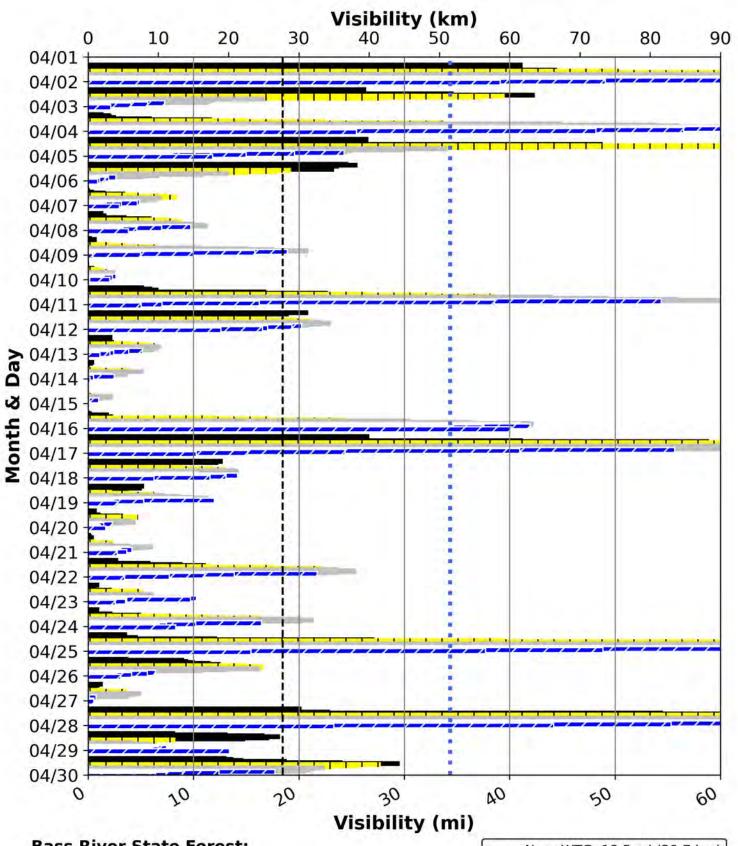
Bass River State Forest (BRT01) Hourly Visibility During Mar 2019



If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 45.9% of the month some of the proposed WTGs would have been visible, and 54.1% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 18.5 mi (29.7 km)
--- Far WTG: 34.3 mi (55.3 km)
5 - 9 am EST
1 10 am - 12 pm
1 - 5 pm
6 - 8 pm

Bass River State Forest (BRT01) Hourly Visibility During Apr 2019

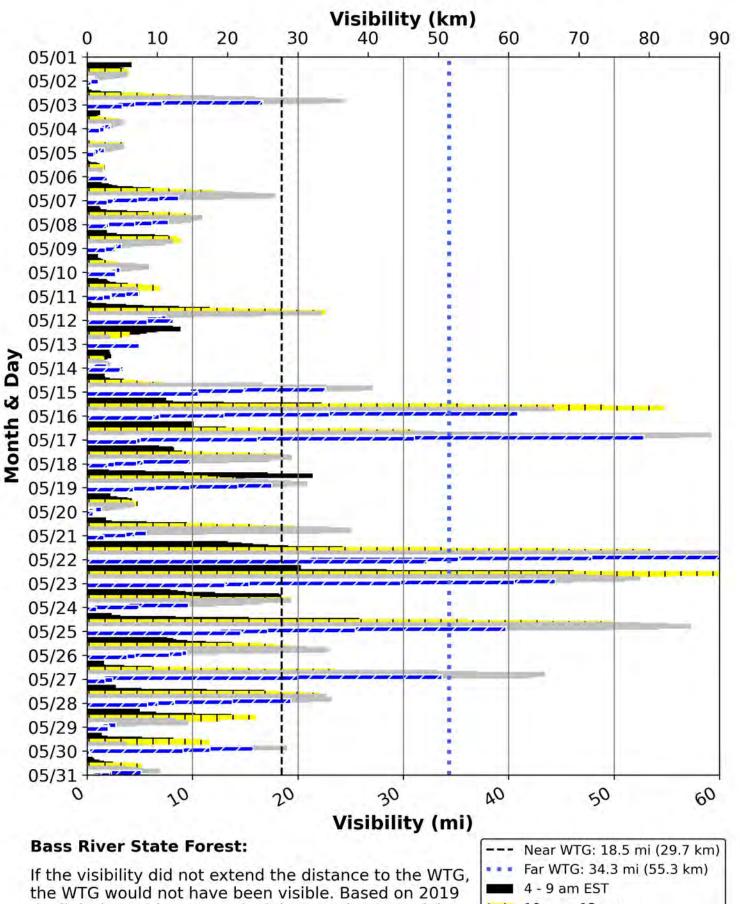


Bass River State Forest:

If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 28.5% of the month some of the proposed WTGs would have been visible, and 71.5% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 18.5 mi (29.7 km)
--- Far WTG: 34.3 mi (55.3 km)
--- 4 - 9 am EST
--- 10 am - 12 pm
--- 1 - 4 pm
--- 5 - 9 pm

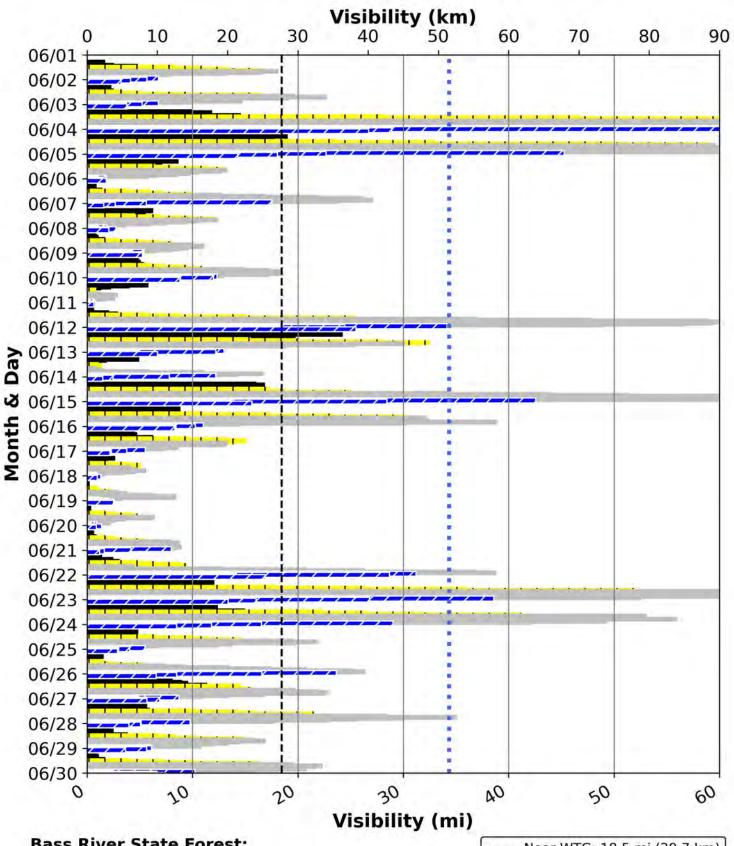
Bass River State Forest (BRT01) Hourly Visibility During May 2019



If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 19.0% of the month some of the proposed WTGs would have been visible, and 81.0% of the month none of the proposed WTGs would have been visible.

Far WTG: 18.5 ml (29.7 km)
Far WTG: 34.3 ml (55.3 km)
4 - 9 am EST
1 10 am - 12 pm
1 - 5 pm
6 - 10 pm

Bass River State Forest (BRT01) Hourly Visibility During Jun 2019

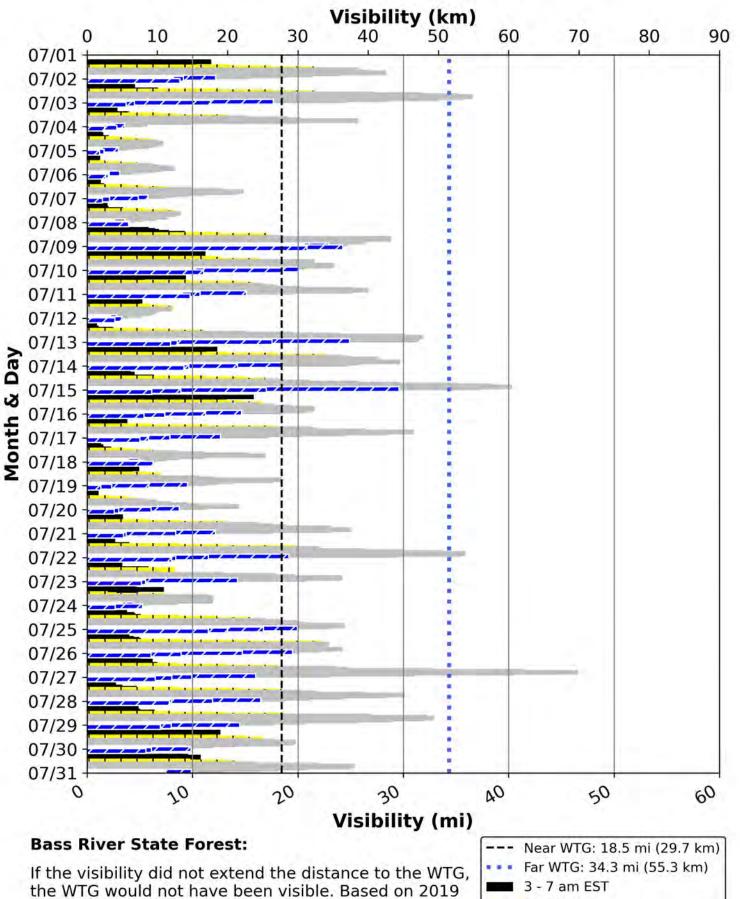


Bass River State Forest:

If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 23.8% of the month some of the proposed WTGs would have been visible, and 76.2% of the month none of the proposed WTGs would have been visible.

Near WTG: 18.5 mi (29.7 km) Far WTG: 34.3 mi (55.3 km) 3 - 7 am EST | 8 - 11 am 12 - 6 pm 7 - 10 pm

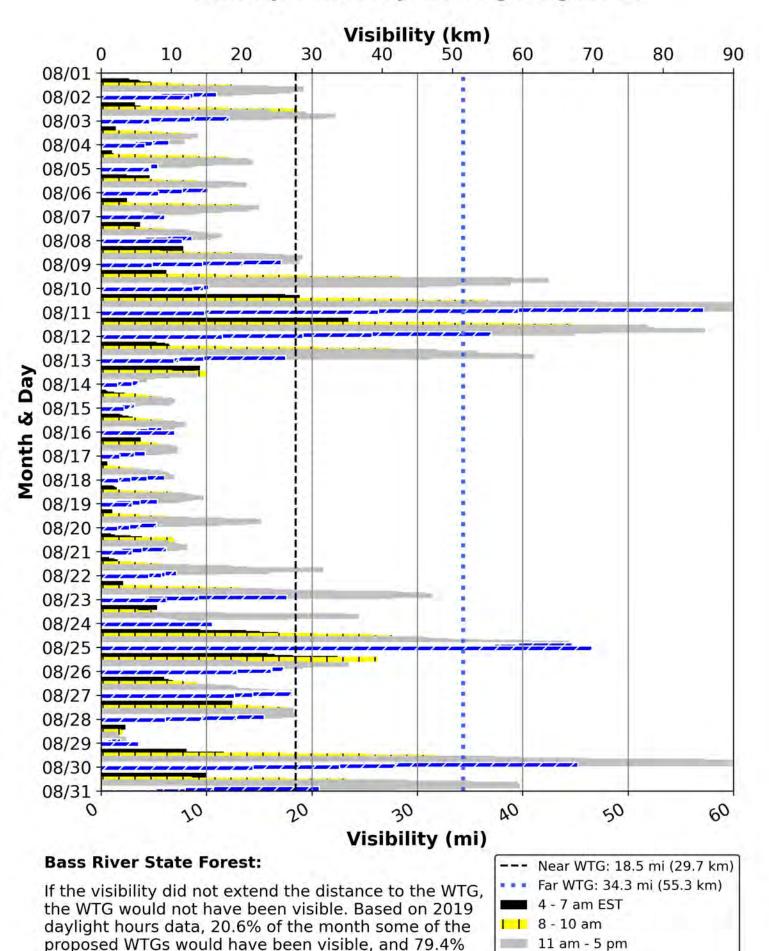
Bass River State Forest (BRT01) Hourly Visibility During Jul 2019



If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 24.8% of the month some of the proposed WTGs would have been visible, and 75.2% of the month none of the proposed WTGs would have been visible.

Far WTG: 34.3 mi (55.3 km)
3 - 7 am EST
8 - 10 am
11 am - 6 pm
7 - 10 pm

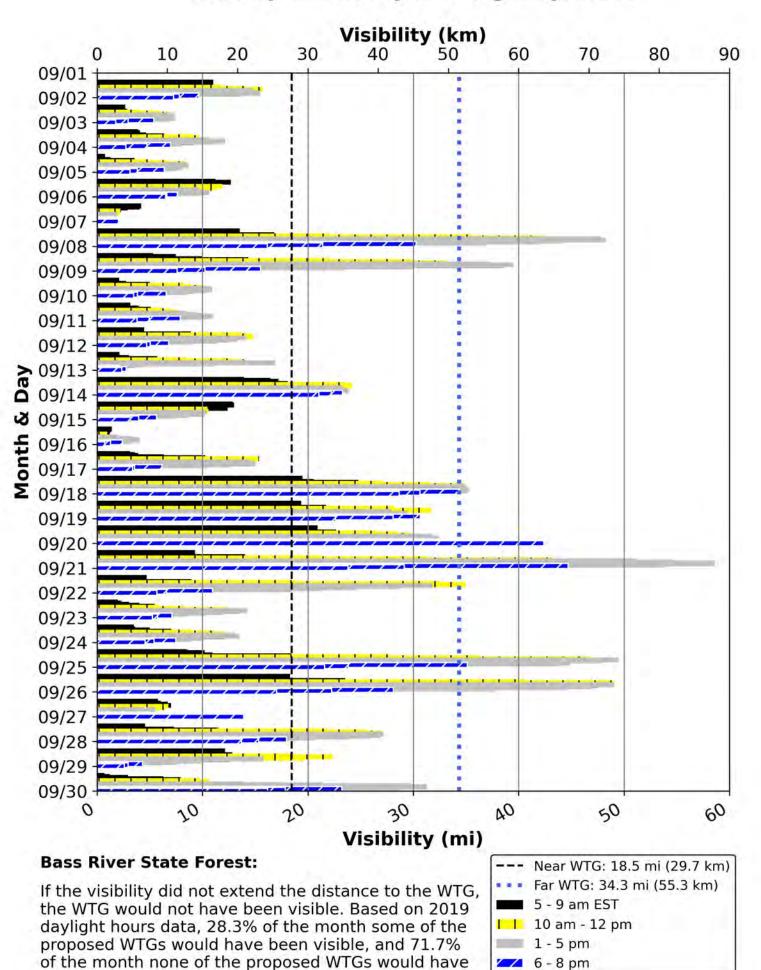
Bass River State Forest (BRT01) Hourly Visibility During Aug 2019



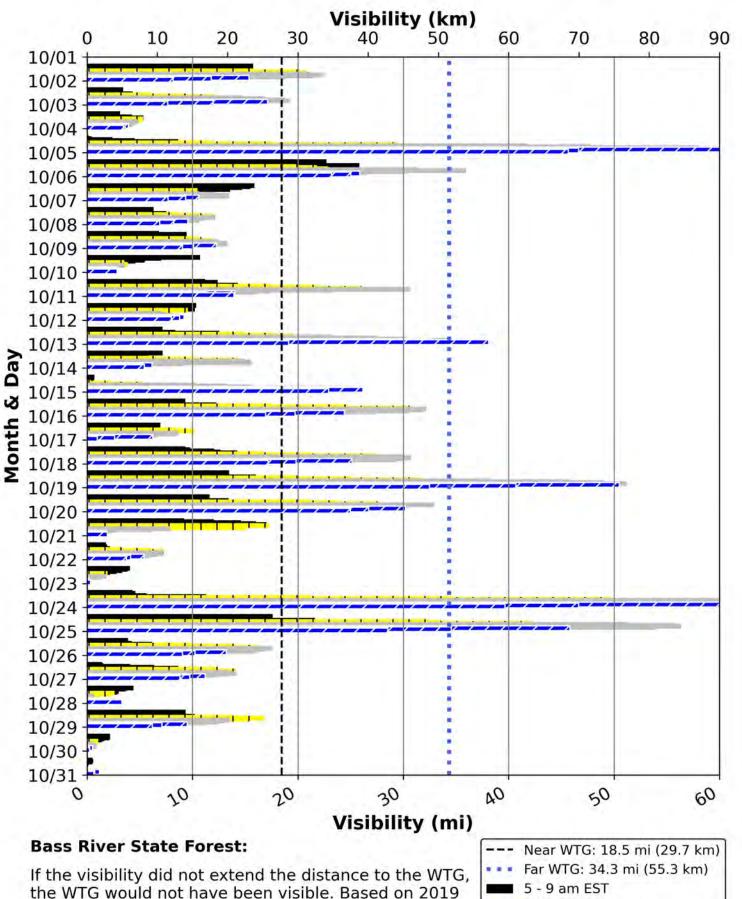
6 - 9 pm

of the month none of the proposed WTGs would have

Bass River State Forest (BRT01) Hourly Visibility During Sep 2019



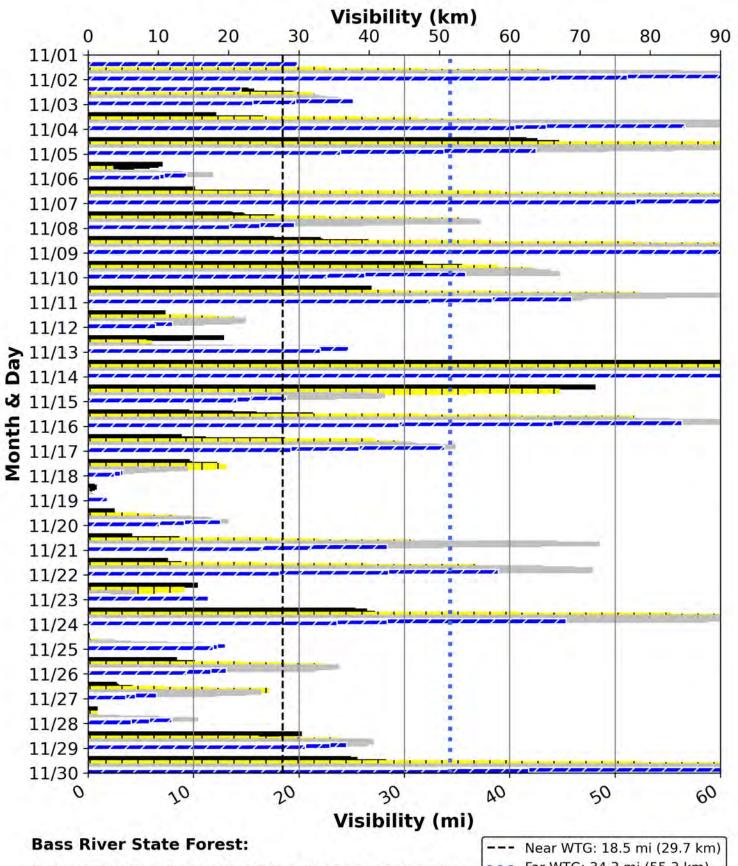
Bass River State Forest (BRT01) Hourly Visibility During Oct 2019



the WTG would not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 22.4% of the month some of the proposed WTGs would have been visible, and 77.6% of the month none of the proposed WTGs would have been visible.

Far WTG: 34.3 mi (55.3 km)
5 - 9 am EST
10 am - 12 pm
1 - 4 pm
5 - 7 pm

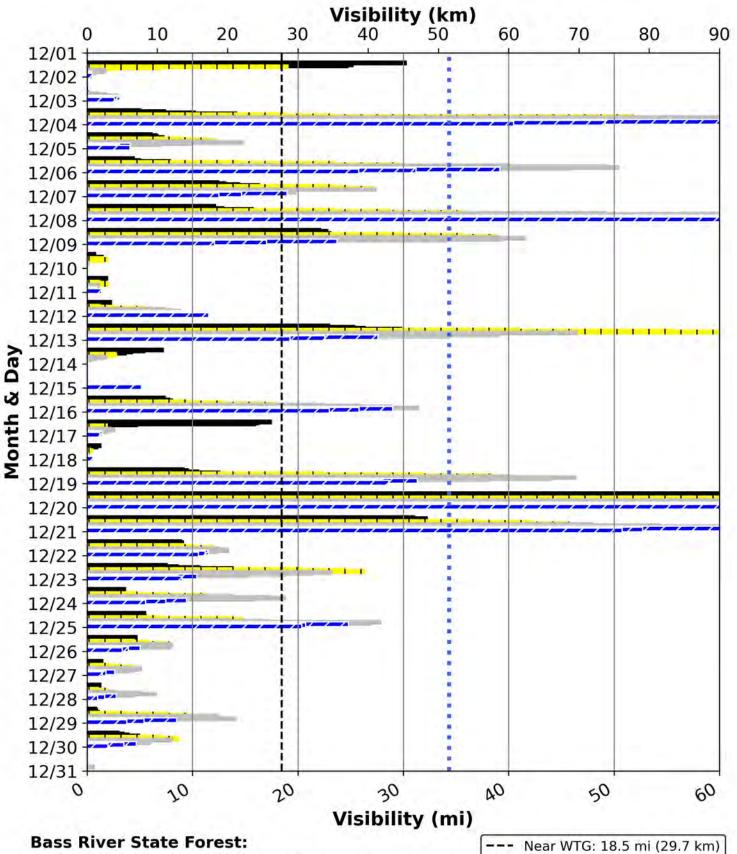
Bass River State Forest (BRT01) Hourly Visibility During Nov 2019



If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 54.3% of the month some of the proposed WTGs would have been visible, and 45.7% of the month none of the proposed WTGs would have been visible.

Near WTG: 18.5 mi (29.7 km)
Far WTG: 34.3 mi (55.3 km)
5 - 8 am EST
9 - 11 am
12 - 3 pm
4 - 6 pm

Bass River State Forest (BRT01) Hourly Visibility During Dec 2019



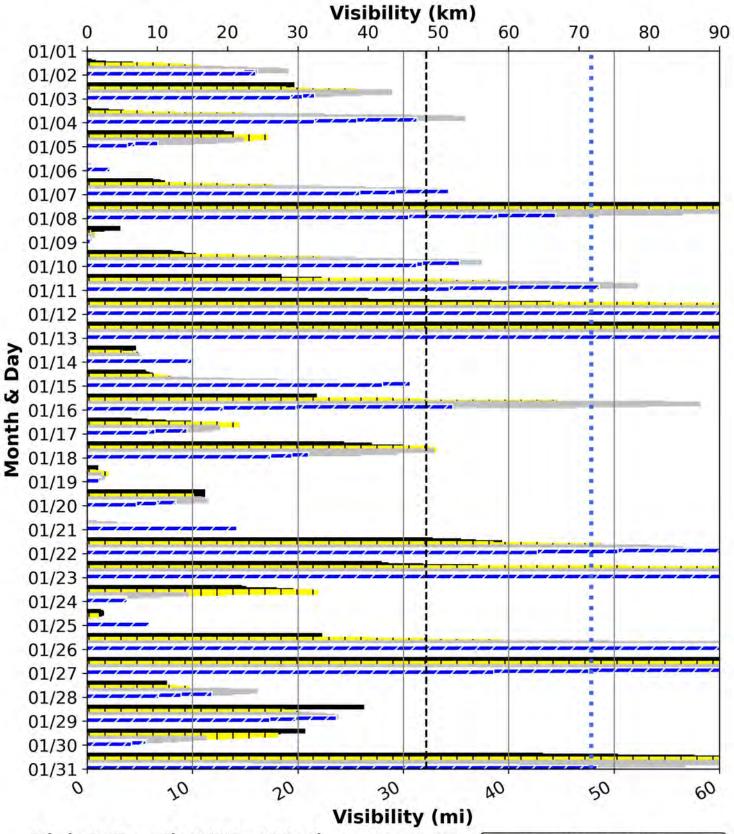
If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 29.5% of the month some of the proposed WTGs would have been visible, and 70.5% of the month none of the proposed WTGs would have been visible.

Near WTG: 18.5 mi (29.7 km)
Far WTG: 34.3 mi (55.3 km)
5 - 8 am EST
9 - 11 am
12 - 3 pm
4 - 6 pm

LAT01

EDWIN B. FORSYTHE NWR AT THE WOODMANSEE ESTATE

Edwin B. Forsythe NWR at Woodmansee Estate (LAT01) Hourly Visibility During Jan 2019

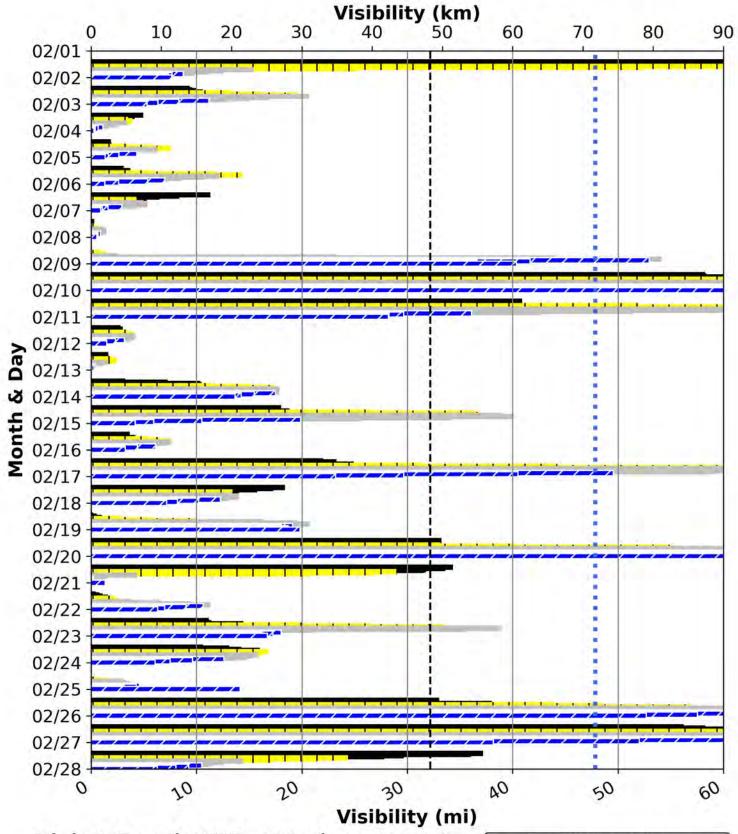


Edwin B. Forsythe NWR at Woodmansee Estate:

If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 32.3% of the month some of the proposed WTGs would have been visible, and 67.7% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 32.2 mi (51.8 km)
--- Far WTG: 47.8 mi (76.9 km)
--- 5 - 8 am EST
--- 11 am
--- 12 - 3 pm
--- 4 - 6 pm

Edwin B. Forsythe NWR at Woodmansee Estate (LAT01) Hourly Visibility During Feb 2019

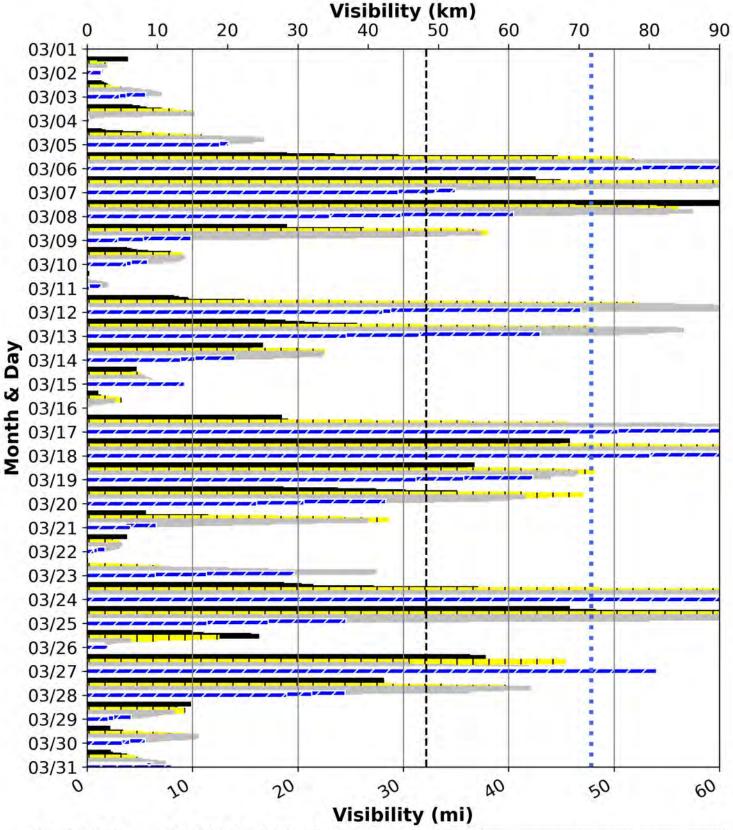


Edwin B. Forsythe NWR at Woodmansee Estate:

If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 24.3% of the month some of the proposed WTGs would have been visible, and 75.7% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 32.2 mi (51.8 km)
--- Far WTG: 47.8 mi (76.9 km)
--- 5 - 8 am EST
--- 11 am
--- 12 - 3 pm
--- 4 - 6 pm

Edwin B. Forsythe NWR at Woodmansee Estate (LAT01) Hourly Visibility During Mar 2019

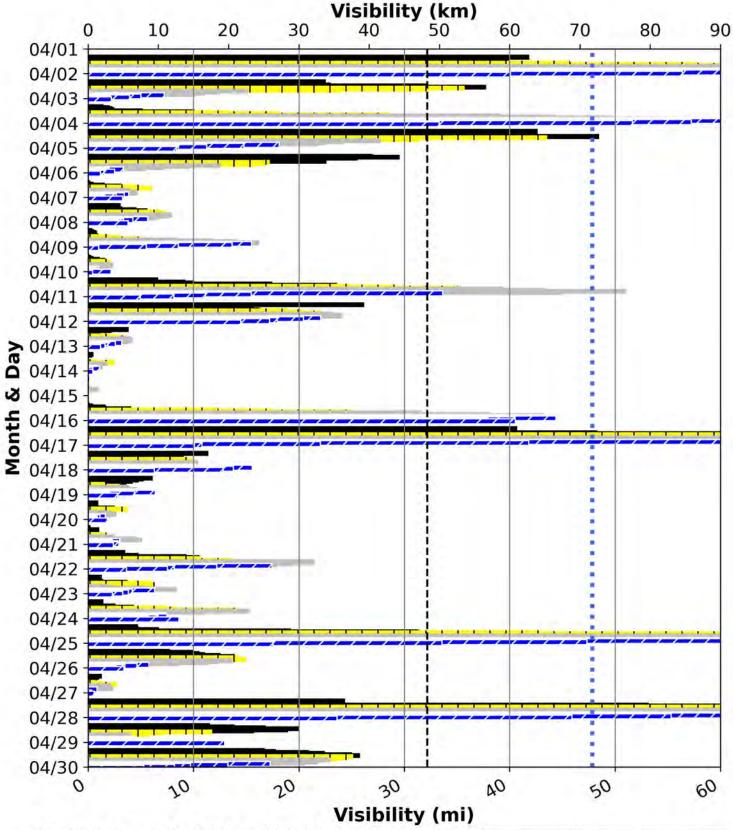


Edwin B. Forsythe NWR at Woodmansee Estate:

If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 31.4% of the month some of the proposed WTGs would have been visible, and 68.6% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 32.2 mi (51.8 km)
Far WTG: 47.8 mi (76.9 km)
5 - 9 am EST
10 am - 12 pm
1 - 5 pm
6 - 8 pm

Edwin B. Forsythe NWR at Woodmansee Estate (LAT01) Hourly Visibility During Apr 2019

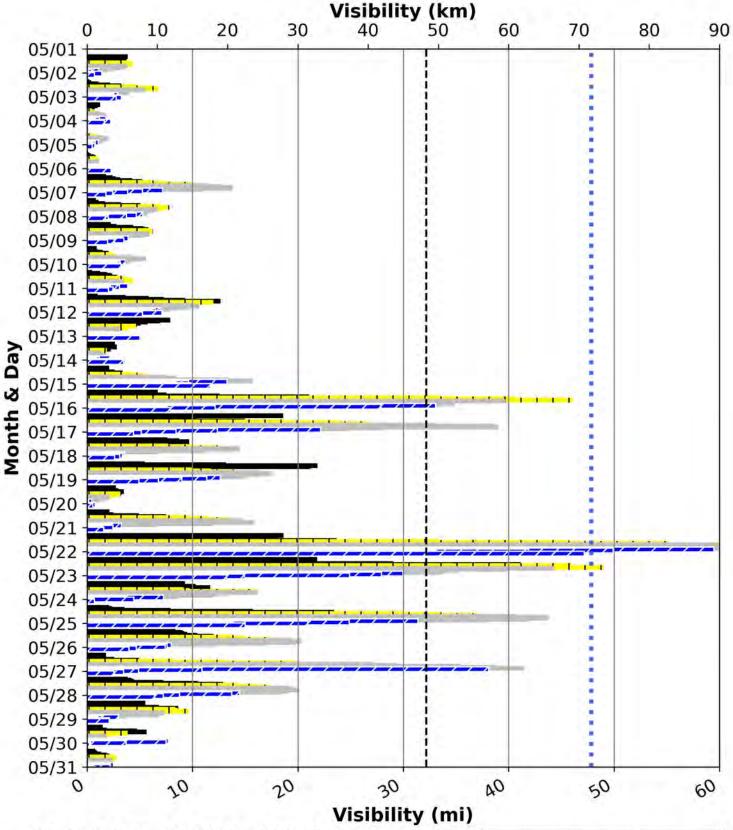


Edwin B. Forsythe NWR at Woodmansee Estate:

If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 16.1% of the month some of the proposed WTGs would have been visible, and 83.9% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 32.2 mi (51.8 km)
Far WTG: 47.8 mi (76.9 km)
4 - 9 am EST
10 am - 12 pm
1 - 4 pm
5 - 9 pm

Edwin B. Forsythe NWR at Woodmansee Estate (LAT01) Hourly Visibility During May 2019

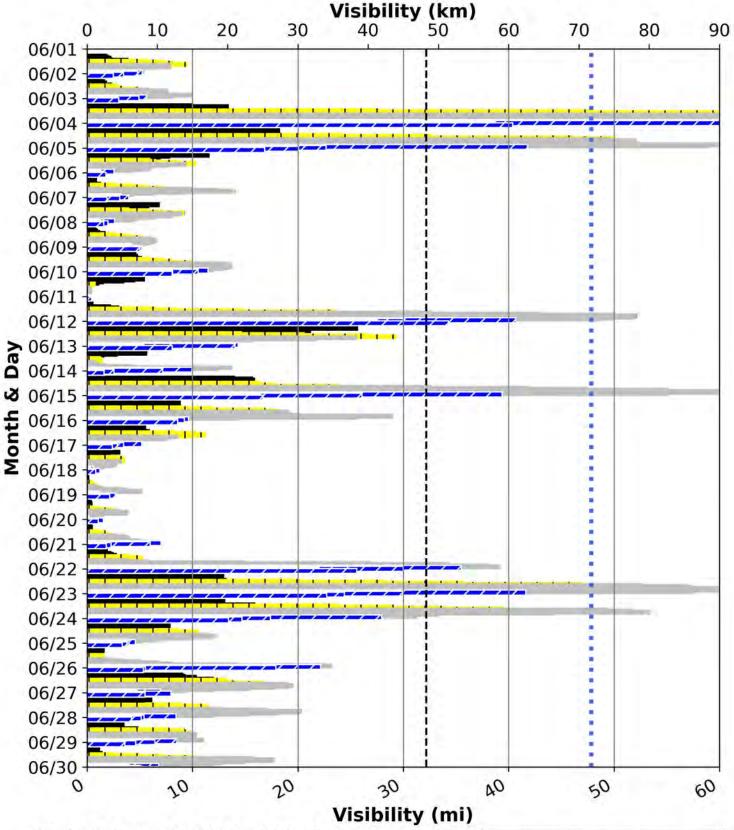


Edwin B. Forsythe NWR at Woodmansee Estate:

If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 7.8% of the month some of the proposed WTGs would have been visible, and 92.2% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 32.2 mi (51.8 km)
Far WTG: 47.8 mi (76.9 km)
4 - 9 am EST
1 10 am - 12 pm
1 - 5 pm
6 - 10 pm

Edwin B. Forsythe NWR at Woodmansee Estate (LAT01) Hourly Visibility During Jun 2019

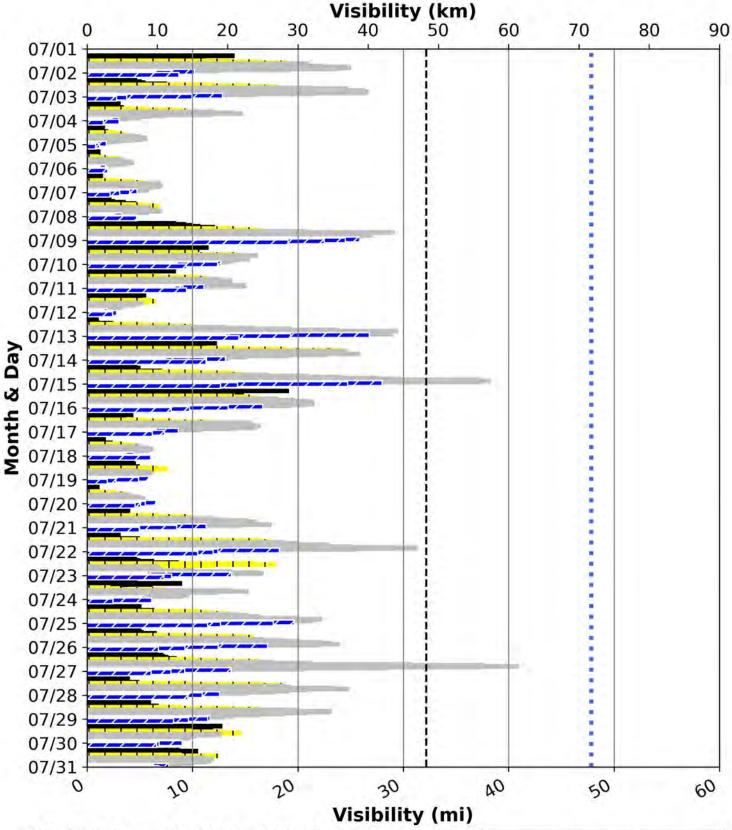


Edwin B. Forsythe NWR at Woodmansee Estate:

If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 11.8% of the month some of the proposed WTGs would have been visible, and 88.2% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 32.2 mi (51.8 km)
Far WTG: 47.8 mi (76.9 km)
3 - 7 am EST
8 - 11 am
12 - 6 pm
7 - 10 pm

Edwin B. Forsythe NWR at Woodmansee Estate (LAT01) Hourly Visibility During Jul 2019

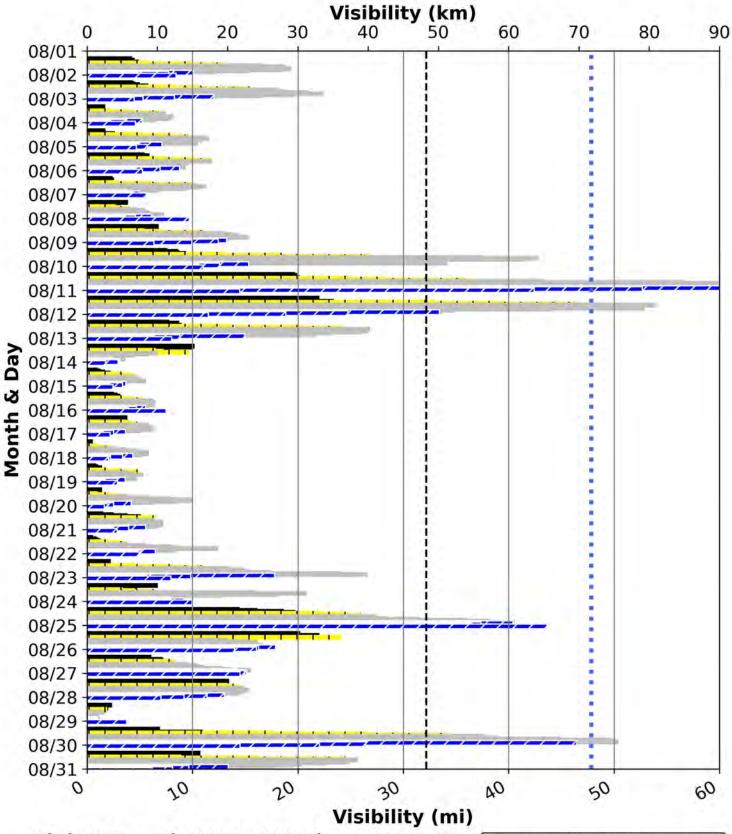


Edwin B. Forsythe NWR at Woodmansee Estate:

If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 1.0% of the month some of the proposed WTGs would have been visible, and 99.0% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 32.2 mi (51.8 km)
Far WTG: 47.8 mi (76.9 km)
3 - 7 am EST
8 - 10 am
11 am - 6 pm
7 - 10 pm

Edwin B. Forsythe NWR at Woodmansee Estate (LAT01) Hourly Visibility During Aug 2019

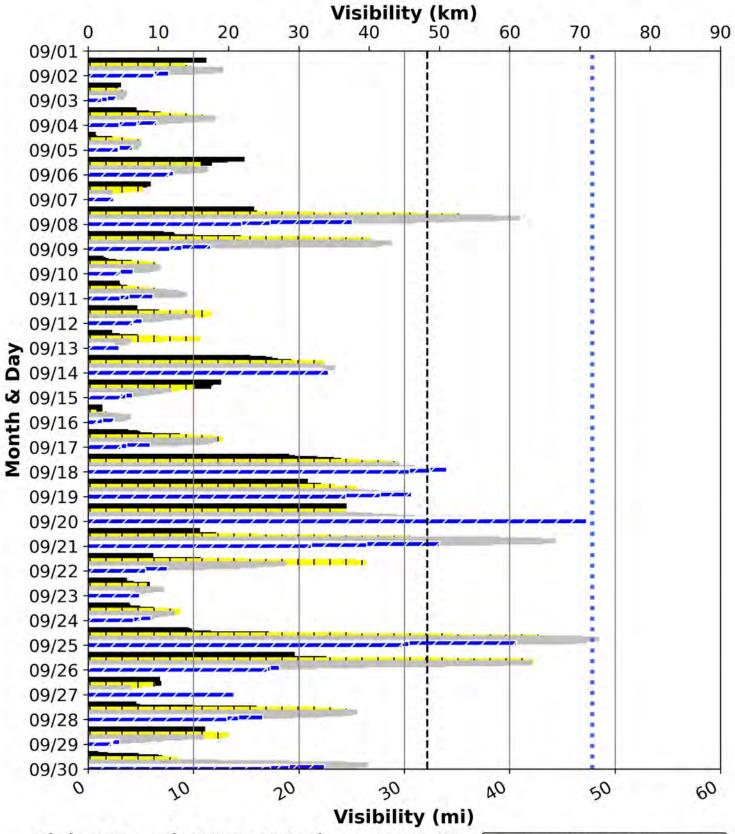


Edwin B. Forsythe NWR at Woodmansee Estate:

If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 7.9% of the month some of the proposed WTGs would have been visible, and 92.1% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 32.2 mi (51.8 km)
Far WTG: 47.8 mi (76.9 km)
4 - 7 am EST
8 - 10 am
11 am - 5 pm
6 - 9 pm

Edwin B. Forsythe NWR at Woodmansee Estate (LAT01) Hourly Visibility During Sep 2019

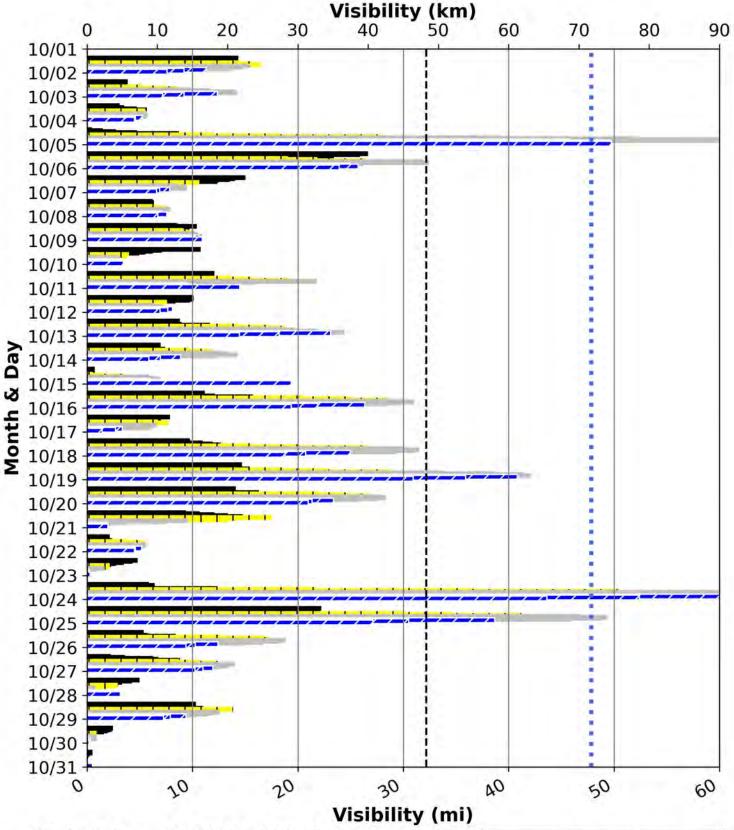


Edwin B. Forsythe NWR at Woodmansee Estate:

If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 6.7% of the month some of the proposed WTGs would have been visible, and 93.3% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 32.2 mi (51.8 km)
Far WTG: 47.8 mi (76.9 km)
5 - 9 am EST
1 10 am - 12 pm
1 - 5 pm
6 - 8 pm

Edwin B. Forsythe NWR at Woodmansee Estate (LAT01) Hourly Visibility During Oct 2019

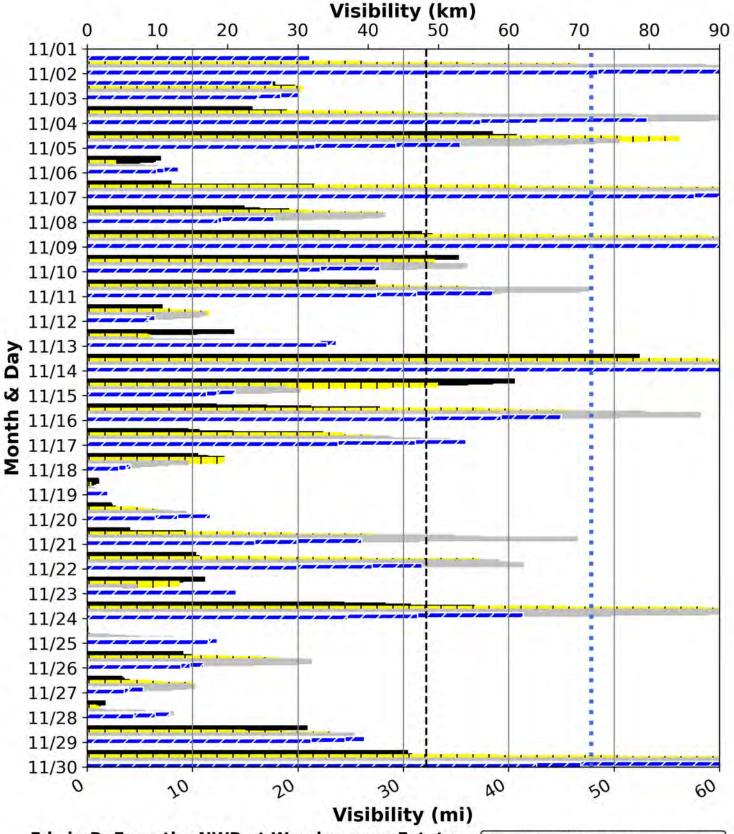


Edwin B. Forsythe NWR at Woodmansee Estate:

If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 6.5% of the month some of the proposed WTGs would have been visible, and 93.5% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 32.2 mi (51.8 km)
Far WTG: 47.8 mi (76.9 km)
5 - 9 am EST
1 10 am - 12 pm
1 - 4 pm
5 - 7 pm

Edwin B. Forsythe NWR at Woodmansee Estate (LAT01) Hourly Visibility During Nov 2019

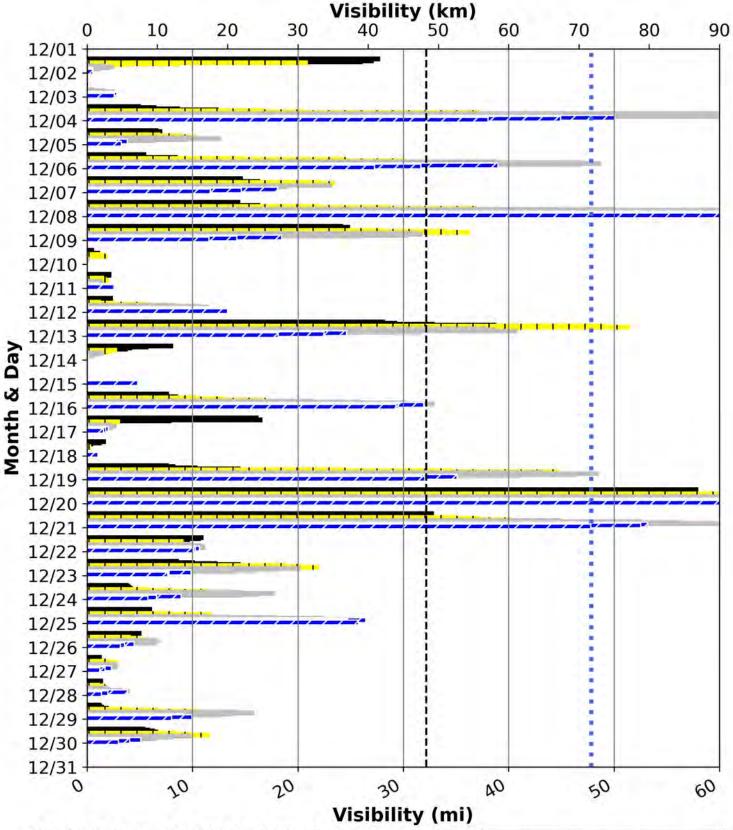


Edwin B. Forsythe NWR at Woodmansee Estate:

If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 30.8% of the month some of the proposed WTGs would have been visible, and 69.2% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 32.2 mi (51.8 km)
Far WTG: 47.8 mi (76.9 km)
5 - 8 am EST
9 - 11 am
12 - 3 pm
4 - 6 pm

Edwin B. Forsythe NWR at Woodmansee Estate (LAT01) Hourly Visibility During Dec 2019



Edwin B. Forsythe NWR at Woodmansee Estate:

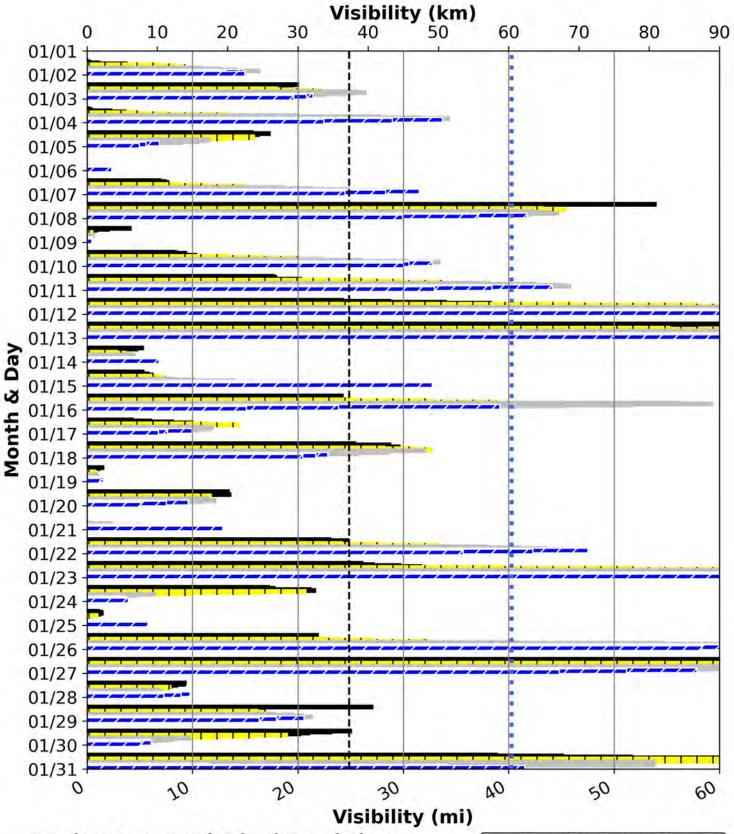
If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 15.0% of the month some of the proposed WTGs would have been visible, and 85.0% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 32.2 mi (51.8 km)
--- Far WTG: 47.8 mi (76.9 km)
--- 5 - 8 am EST
--- 9 - 11 am
--- 12 - 3 pm
--- 4 - 6 pm

LBT03

BEACH AT LONG BEACH ISLAND FOUNDATION FOR THE ARTS AND SCIENCES

Beach at Long Beach Island Foundation (LBT03) Hourly Visibility During Jan 2019

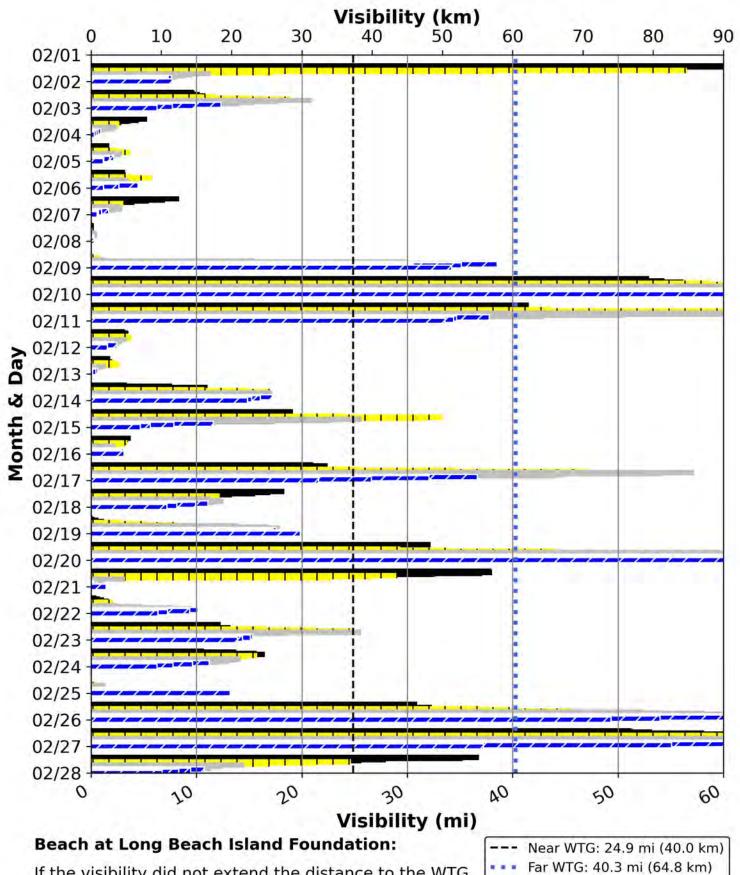


Beach at Long Beach Island Foundation:

If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 38.0% of the month some of the proposed WTGs would have been visible, and 62.0% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 24.9 mi (40.0 km)
--- Far WTG: 40.3 mi (64.8 km)
--- 5 - 8 am EST
--- 9 - 11 am
--- 12 - 3 pm
--- 4 - 6 pm

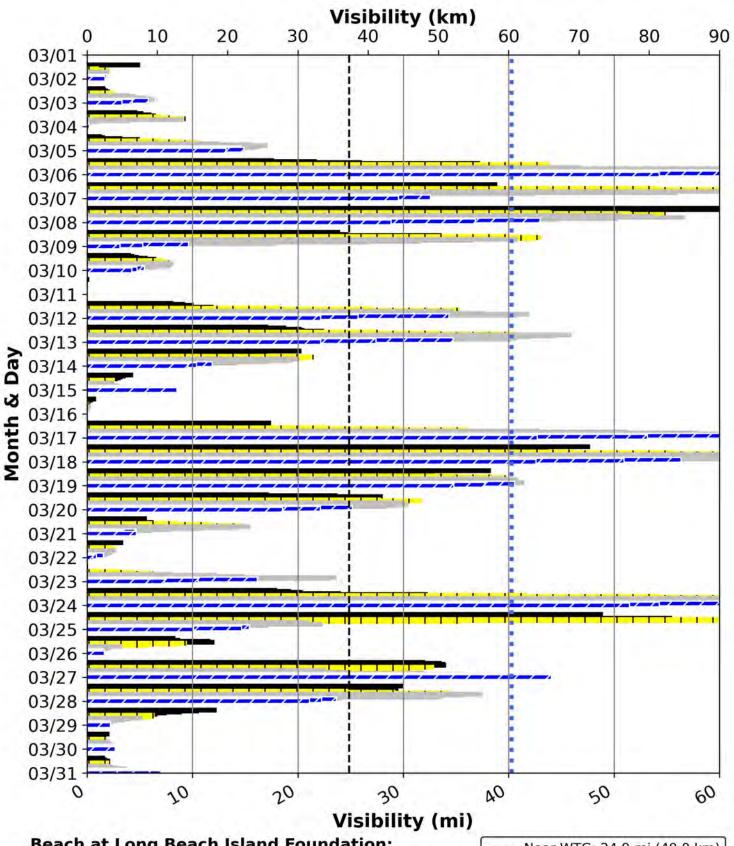
Beach at Long Beach Island Foundation (LBT03) Hourly Visibility During Feb 2019



If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 28.3% of the month some of the proposed WTGs would have been visible, and 71.7% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 24.9 mi (40.0 km)
--- Far WTG: 40.3 mi (64.8 km)
--- 5 - 8 am EST
--- 11 am
--- 12 - 3 pm
--- 4 - 6 pm

Beach at Long Beach Island Foundation (LBT03) **Hourly Visibility During Mar 2019**

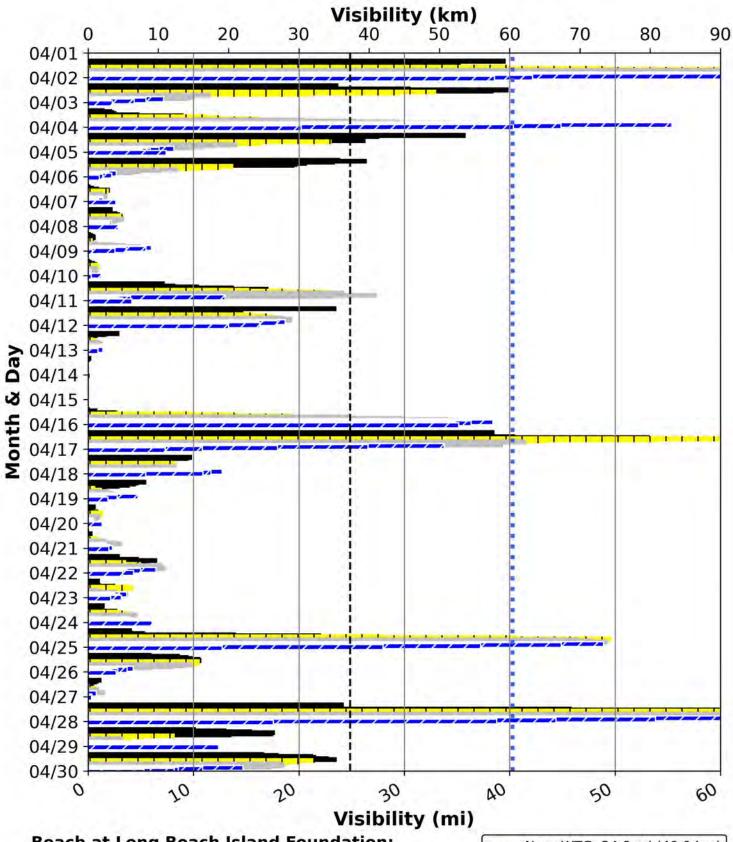


Beach at Long Beach Island Foundation:

If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 34.4% of the month some of the proposed WTGs would have been visible, and 65.6% of the month none of the proposed WTGs would have been visible.

Near WTG: 24.9 mi (40.0 km) Far WTG: 40.3 mi (64.8 km) 5 - 9 am EST 10 am - 12 pm 1 - 5 pm ✓ 6 - 8 pm

Beach at Long Beach Island Foundation (LBT03) Hourly Visibility During Apr 2019

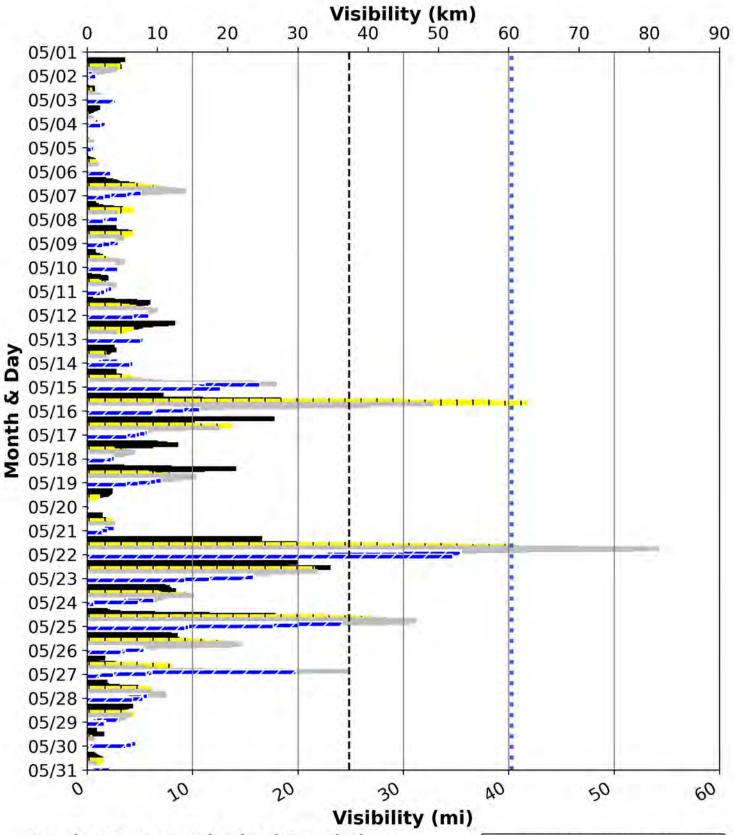


Beach at Long Beach Island Foundation:

If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 15.2% of the month some of the proposed WTGs would have been visible, and 84.8% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 24.9 mi (40.0 km)
--- Far WTG: 40.3 mi (64.8 km)
--- 4 - 9 am EST
--- 10 am - 12 pm
--- 1 - 4 pm
--- 5 - 9 pm

Beach at Long Beach Island Foundation (LBT03) Hourly Visibility During May 2019

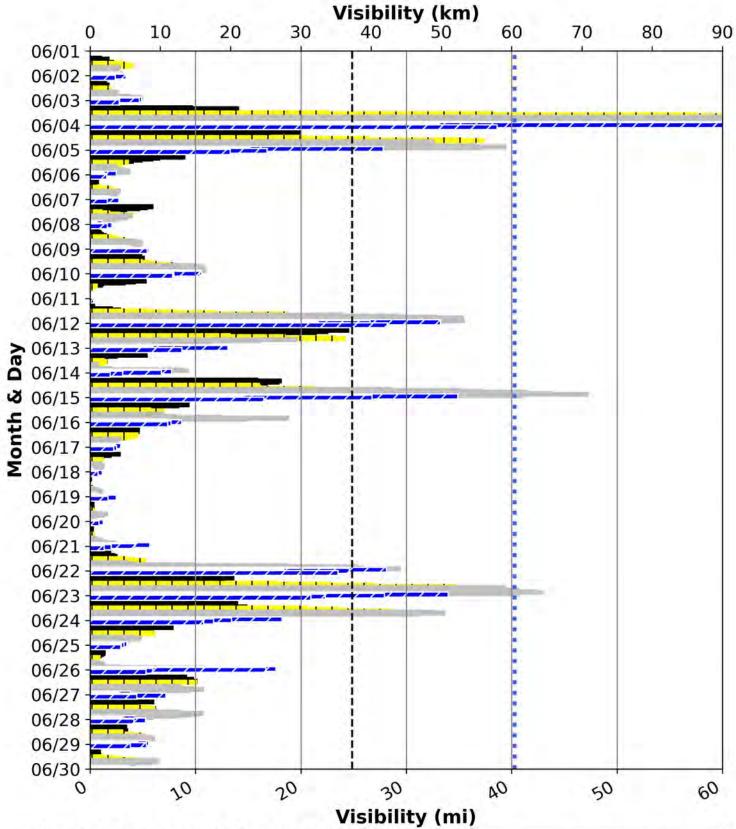


Beach at Long Beach Island Foundation:

If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 4.2% of the month some of the proposed WTGs would have been visible, and 95.8% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 24.9 mi (40.0 km)
--- Far WTG: 40.3 mi (64.8 km)
--- 4 - 9 am EST
--- 10 am - 12 pm
--- 1 - 5 pm
--- 6 - 10 pm

Beach at Long Beach Island Foundation (LBT03) Hourly Visibility During Jun 2019

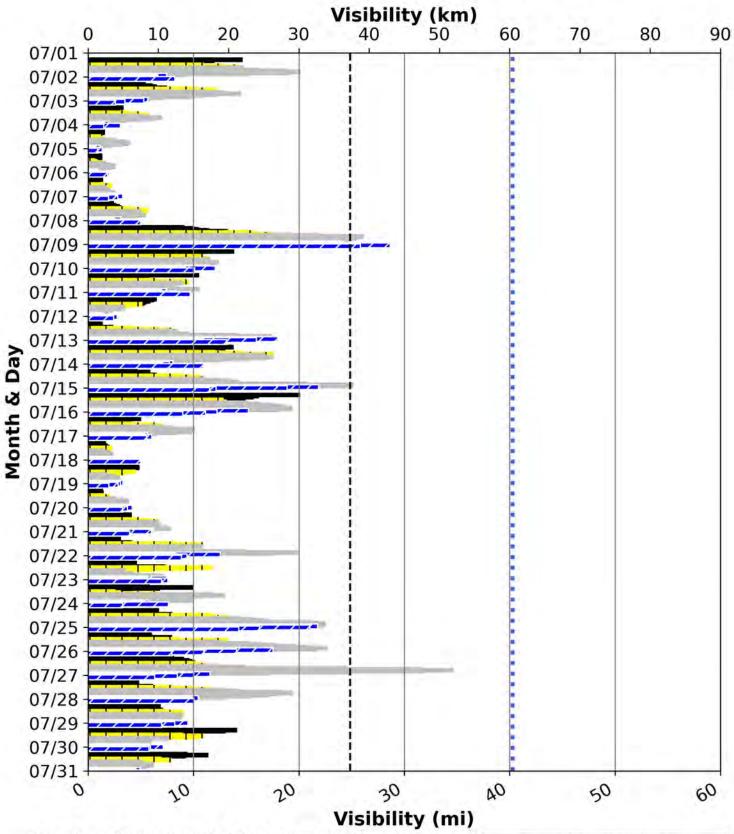


Beach at Long Beach Island Foundation:

If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 11.5% of the month some of the proposed WTGs would have been visible, and 88.5% of the month none of the proposed WTGs would have been visible.

Near WTG: 24.9 mi (40.0 km)
Far WTG: 40.3 mi (64.8 km)
3 - 7 am EST
8 - 11 am
12 - 6 pm
7 - 10 pm

Beach at Long Beach Island Foundation (LBT03) Hourly Visibility During Jul 2019

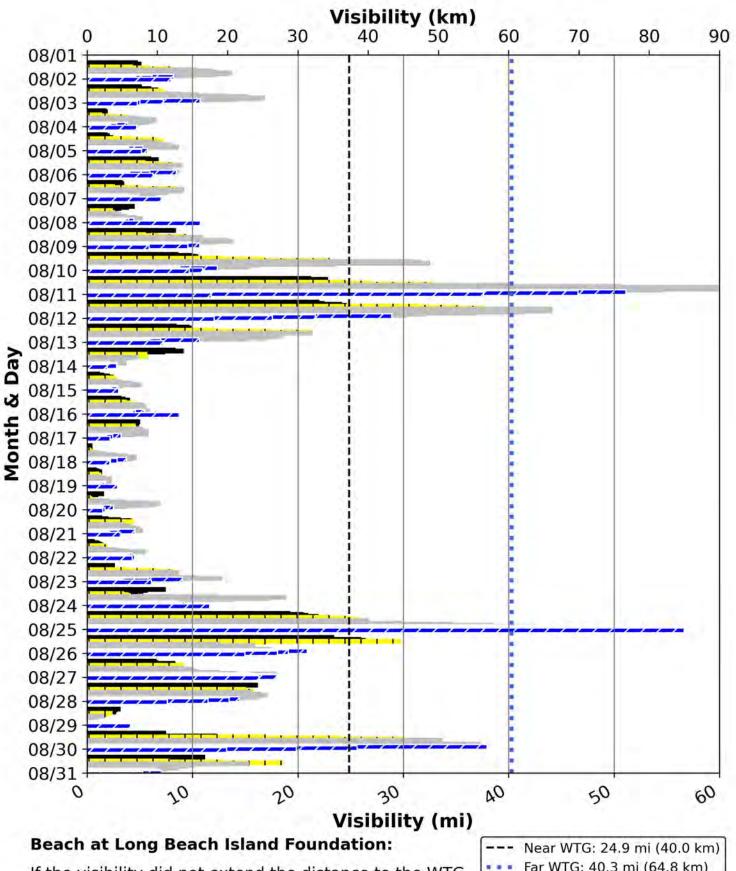


Beach at Long Beach Island Foundation:

If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 1.9% of the month some of the proposed WTGs would have been visible, and 98.1% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 24.9 mi (40.0 km)
--- Far WTG: 40.3 mi (64.8 km)
--- 3 - 7 am EST
--- 8 - 10 am
--- 11 am - 6 pm
--- 7 - 10 pm

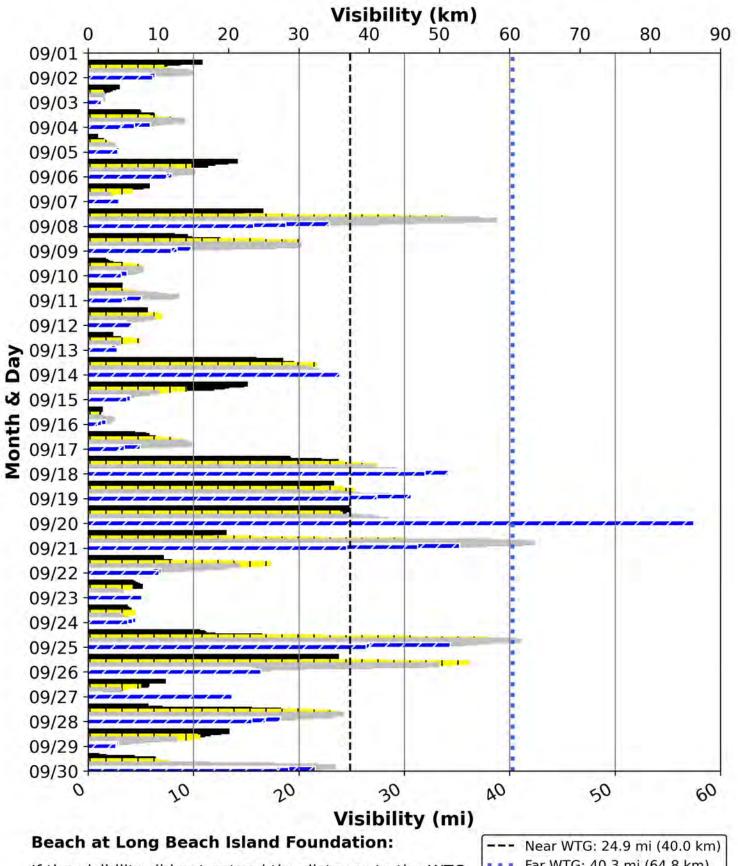
Beach at Long Beach Island Foundation (LBT03) Hourly Visibility During Aug 2019



If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 9.3% of the month some of the proposed WTGs would have been visible, and 90.7% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 24.9 mi (40.0 km)
--- Far WTG: 40.3 mi (64.8 km)
--- 4 - 7 am EST
--- 10 am
--- 11 am - 5 pm
--- 0 - 9 pm

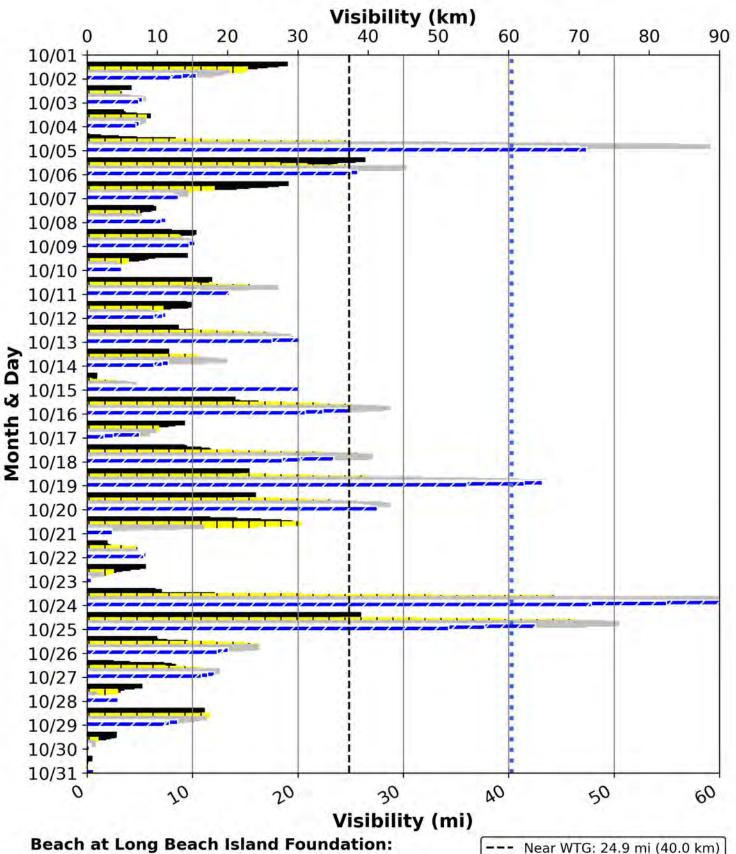
Beach at Long Beach Island Foundation (LBT03) Hourly Visibility During Sep 2019



If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 13.1% of the month some of the proposed WTGs would have been visible, and 86.9% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 24.9 mi (40.0 km)
--- Far WTG: 40.3 mi (64.8 km)
--- 5 - 9 am EST
--- 10 am - 12 pm
--- 1 - 5 pm
--- 6 - 8 pm

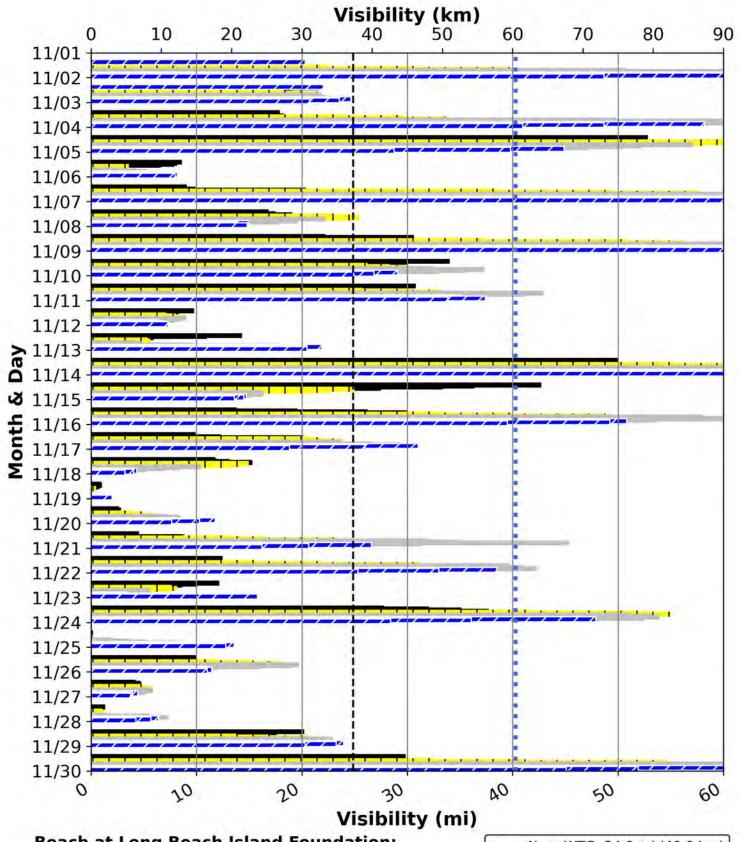
Beach at Long Beach Island Foundation (LBT03) Hourly Visibility During Oct 2019



If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 12.9% of the month some of the proposed WTGs would have been visible, and 87.1% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 24.9 mi (40.0 km)
--- Far WTG: 40.3 mi (64.8 km)
--- 5 - 9 am EST
--- 10 am - 12 pm
--- 1 - 4 pm
--- 5 - 7 pm

Beach at Long Beach Island Foundation (LBT03) Hourly Visibility During Nov 2019

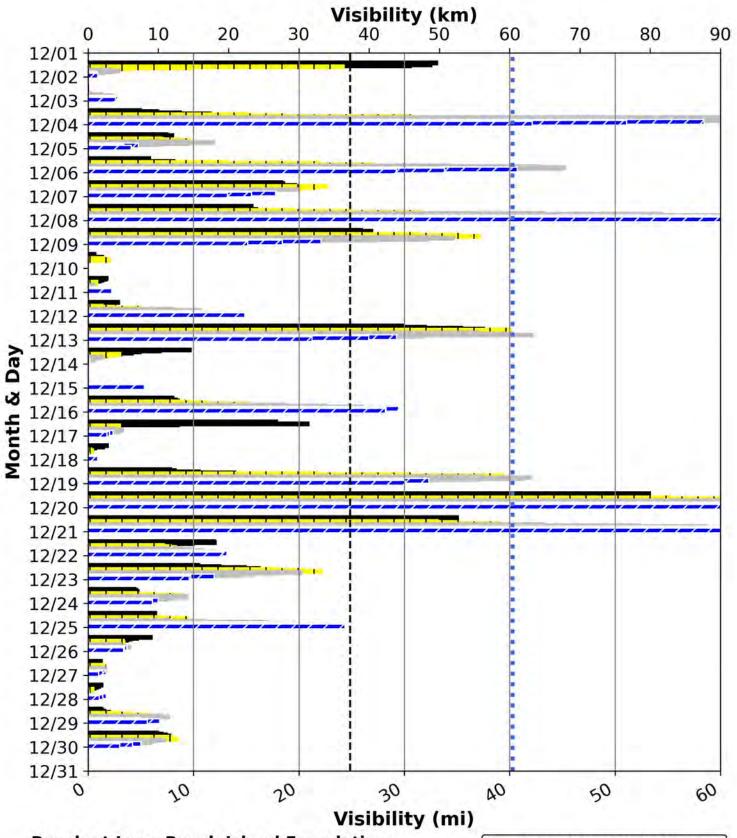


Beach at Long Beach Island Foundation:

If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 40.0% of the month some of the proposed WTGs would have been visible, and 60.0% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 24.9 mi (40.0 km)
--- Far WTG: 40.3 mi (64.8 km)
--- 5 - 8 am EST
--- 9 - 11 am
--- 12 - 3 pm
--- 4 - 6 pm

Beach at Long Beach Island Foundation (LBT03) Hourly Visibility During Dec 2019



Beach at Long Beach Island Foundation:

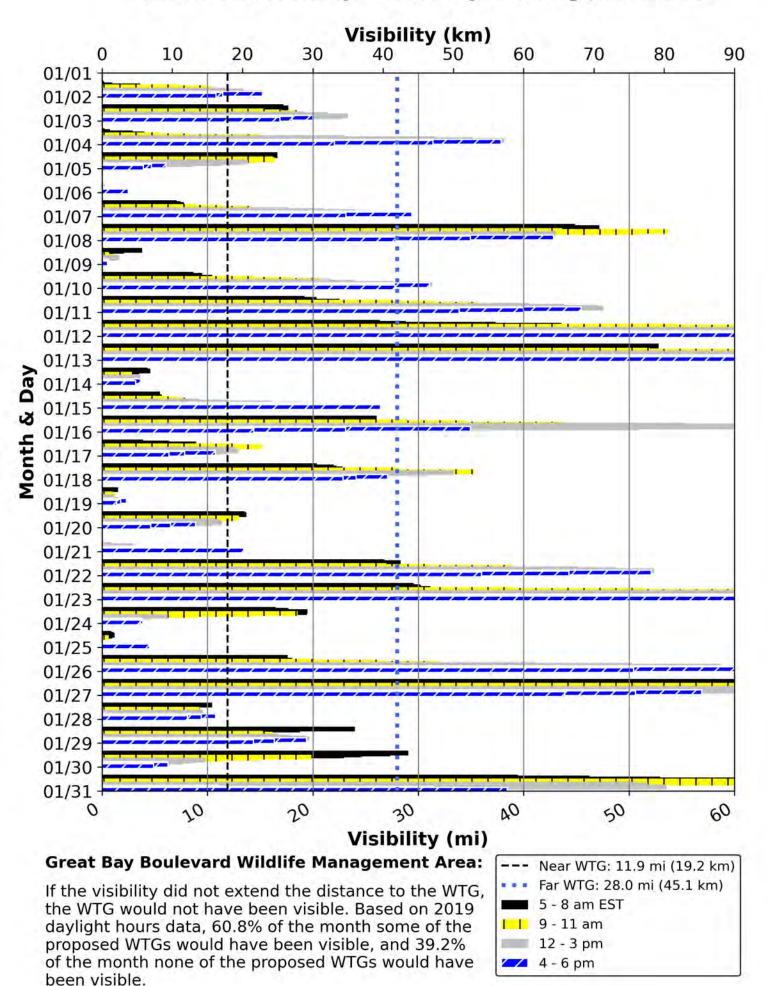
If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 21.7% of the month some of the proposed WTGs would have been visible, and 78.3% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 24.9 mi (40.0 km)
--- Far WTG: 40.3 mi (64.8 km)
--- 5 - 8 am EST
--- 11 am
--- 12 - 3 pm
--- 4 - 6 pm

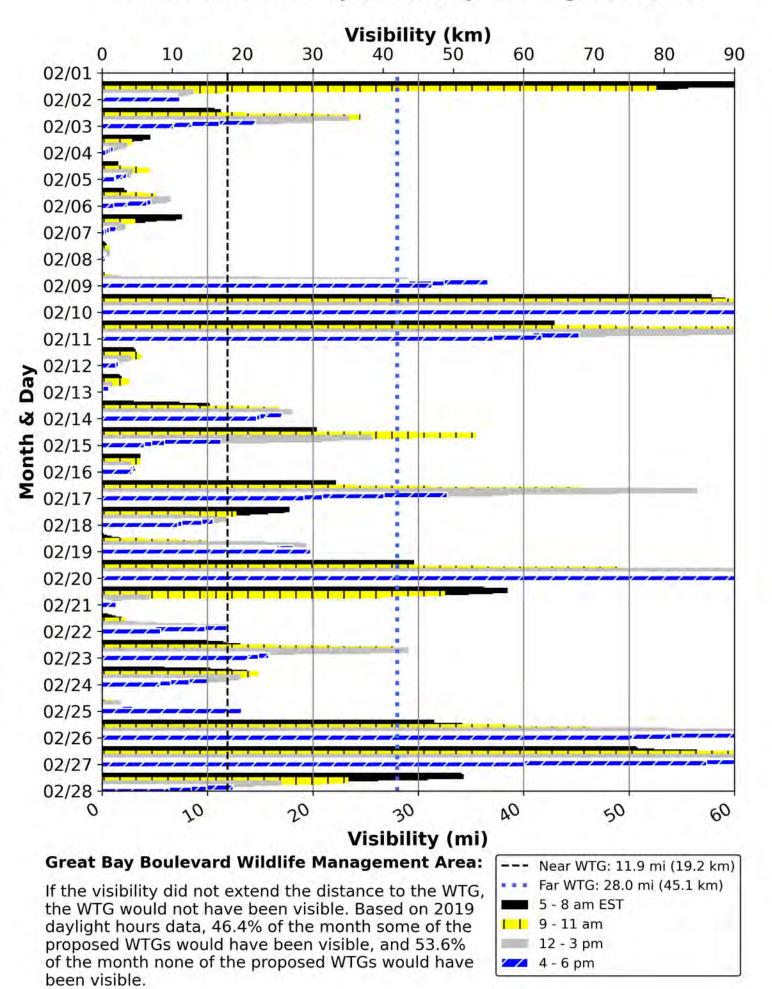
LEHT02

GREAT BAY BOULEVARD WMA/RUTGERS FIELD STATION

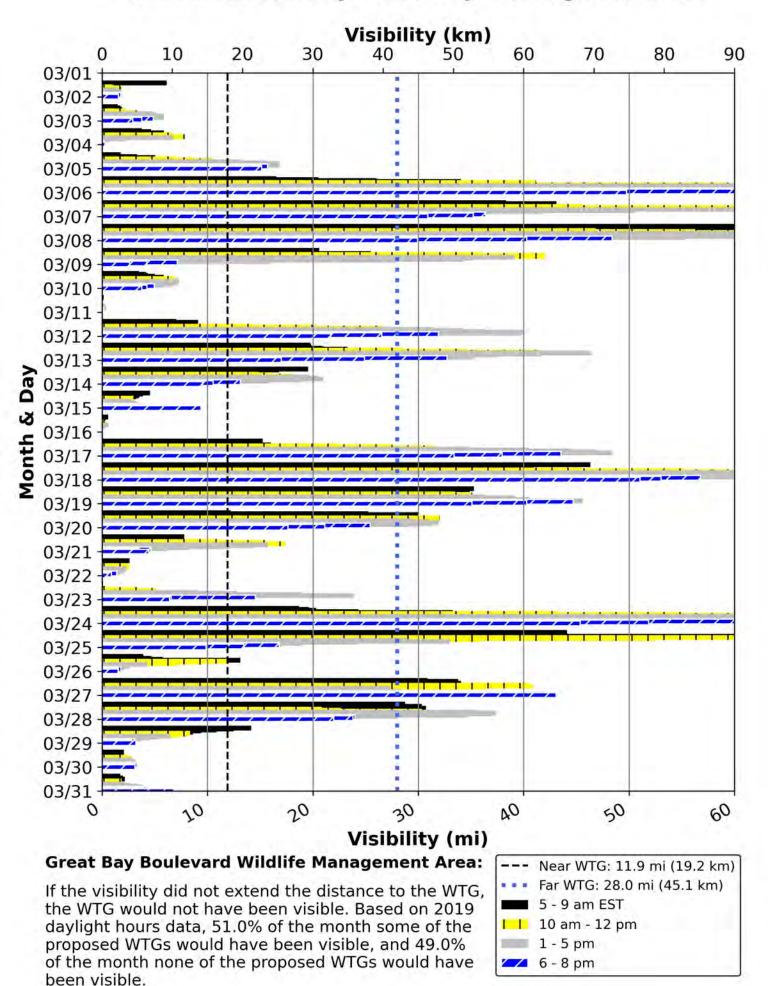
Great Bay Boulevard Wildlife Management Area (LEHT02) Hourly Visibility During Jan 2019



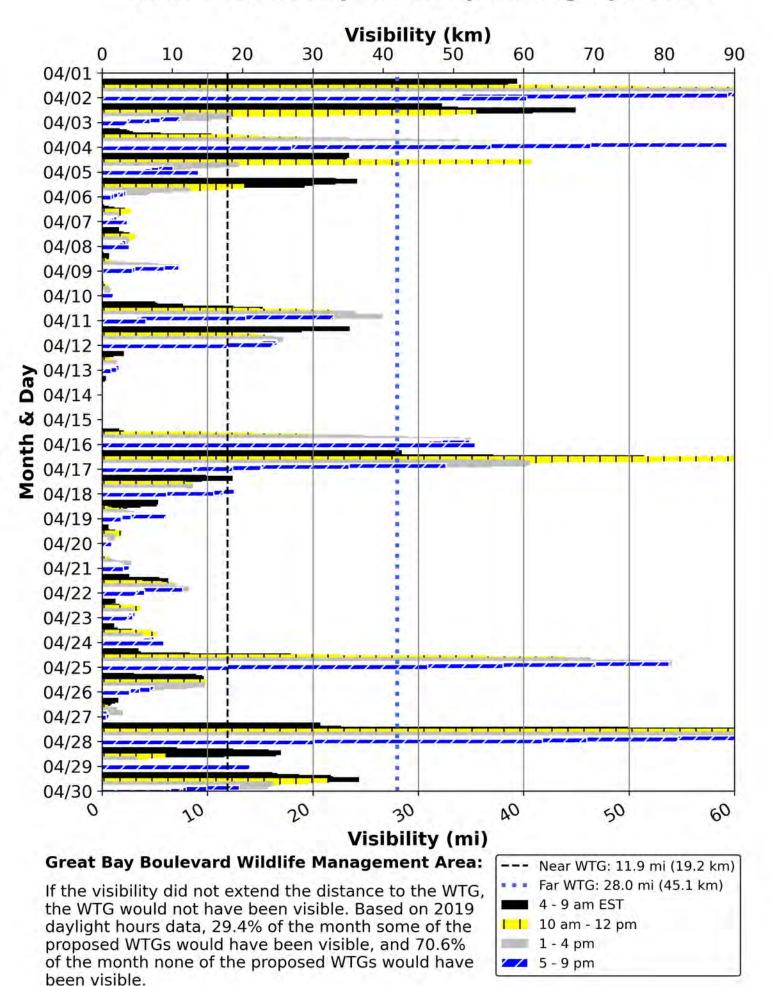
Great Bay Boulevard Wildlife Management Area (LEHT02) Hourly Visibility During Feb 2019



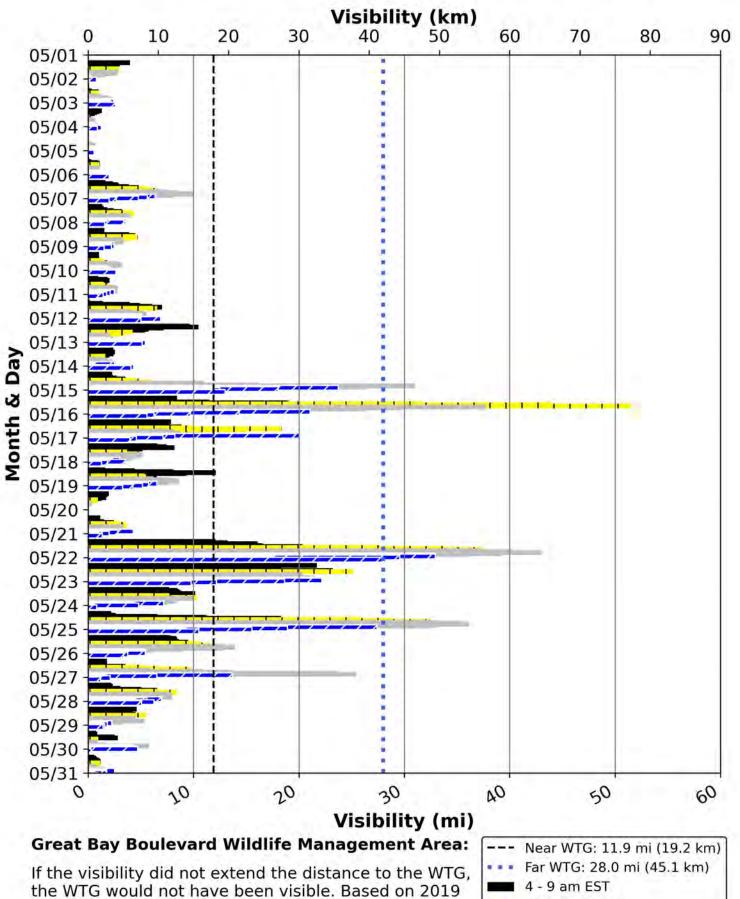
Great Bay Boulevard Wildlife Management Area (LEHT02) Hourly Visibility During Mar 2019



Great Bay Boulevard Wildlife Management Area (LEHT02) Hourly Visibility During Apr 2019



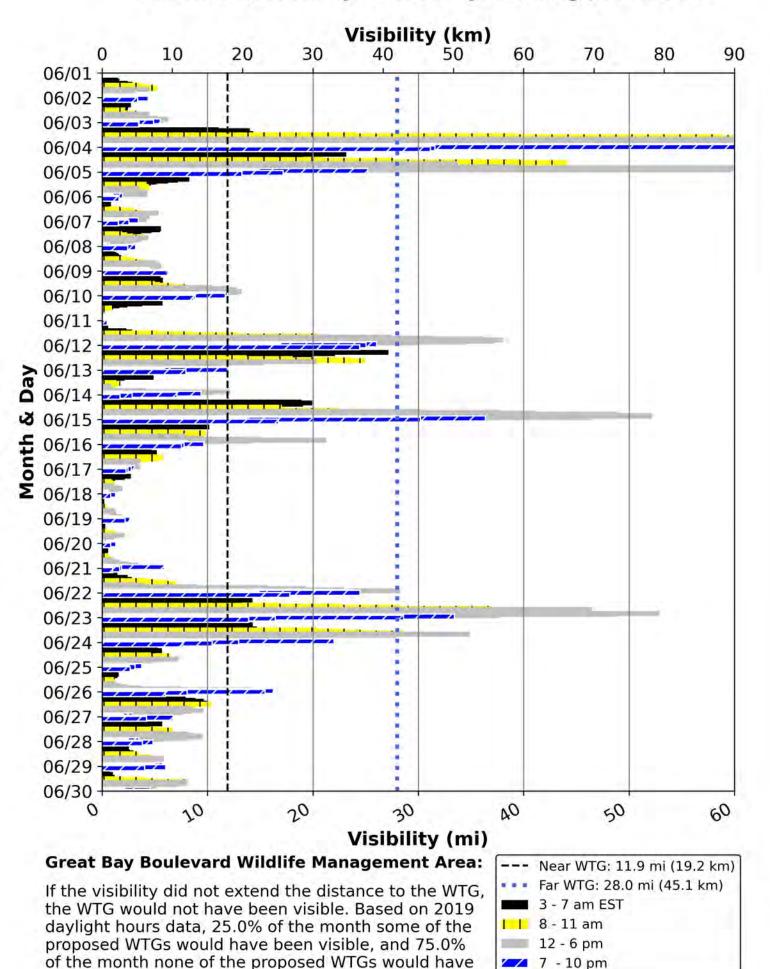
Great Bay Boulevard Wildlife Management Area (LEHT02) Hourly Visibility During May 2019



daylight hours data, 14.1% of the month some of the proposed WTGs would have been visible, and 85.9% of the month none of the proposed WTGs would have been visible.

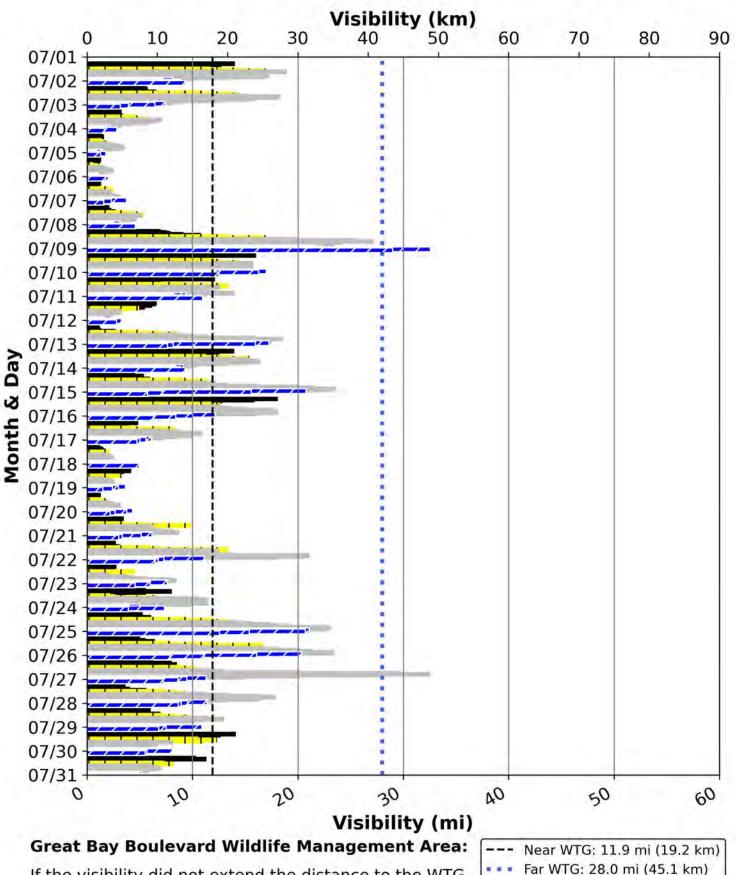
10 am - 12 pm 1 - 5 pm 6 - 10 pm

Great Bay Boulevard Wildlife Management Area (LEHT02) Hourly Visibility During Jun 2019



been visible.

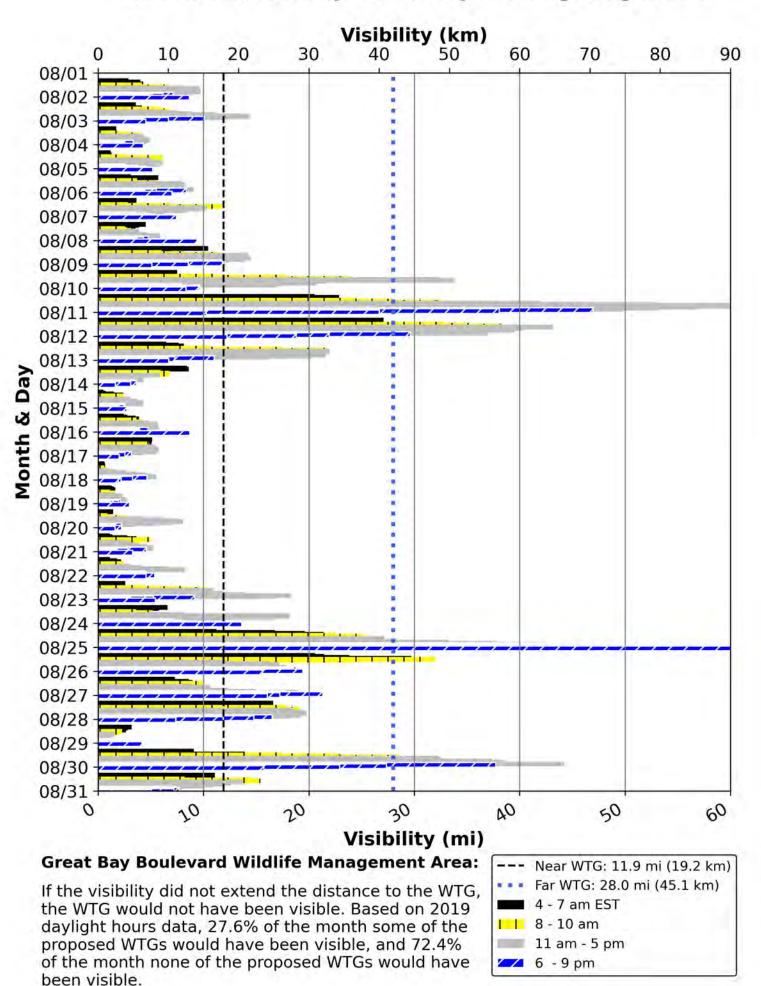
Great Bay Boulevard Wildlife Management Area (LEHT02) Hourly Visibility During Jul 2019



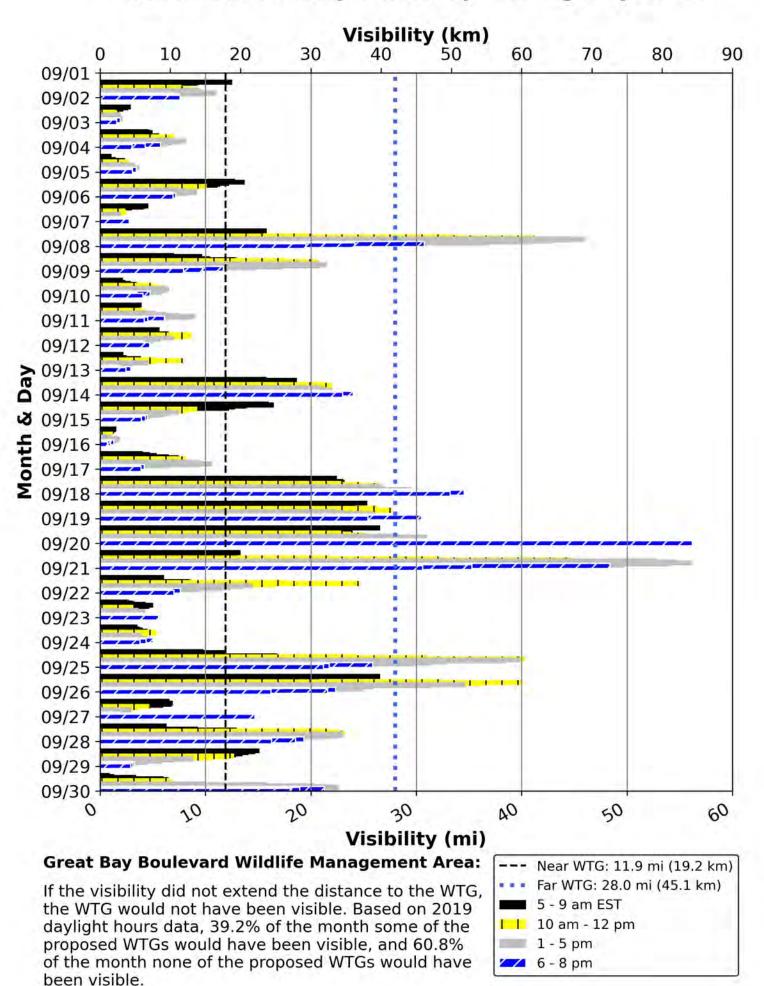
If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 23.2% of the month some of the proposed WTGs would have been visible, and 76.8% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 11.9 mi (19.2 km)
--- Far WTG: 28.0 mi (45.1 km)
--- 3 - 7 am EST
--- 10 am
--- 11 am - 6 pm
--- 7 - 10 pm

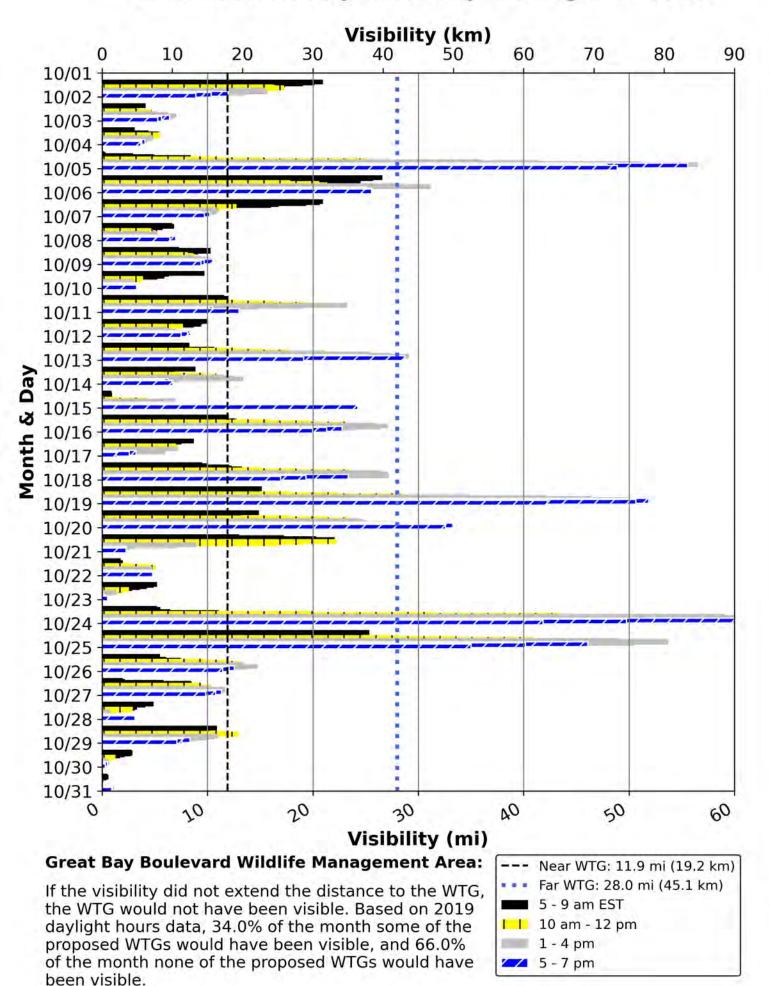
Great Bay Boulevard Wildlife Management Area (LEHT02) Hourly Visibility During Aug 2019



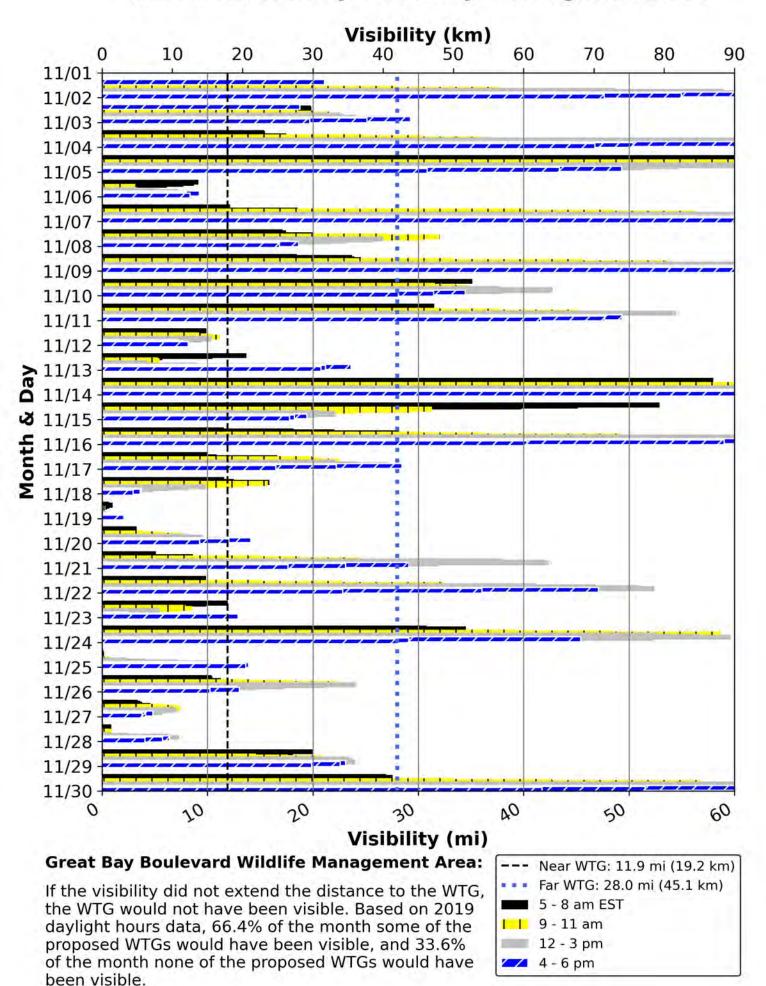
Great Bay Boulevard Wildlife Management Area (LEHT02) Hourly Visibility During Sep 2019



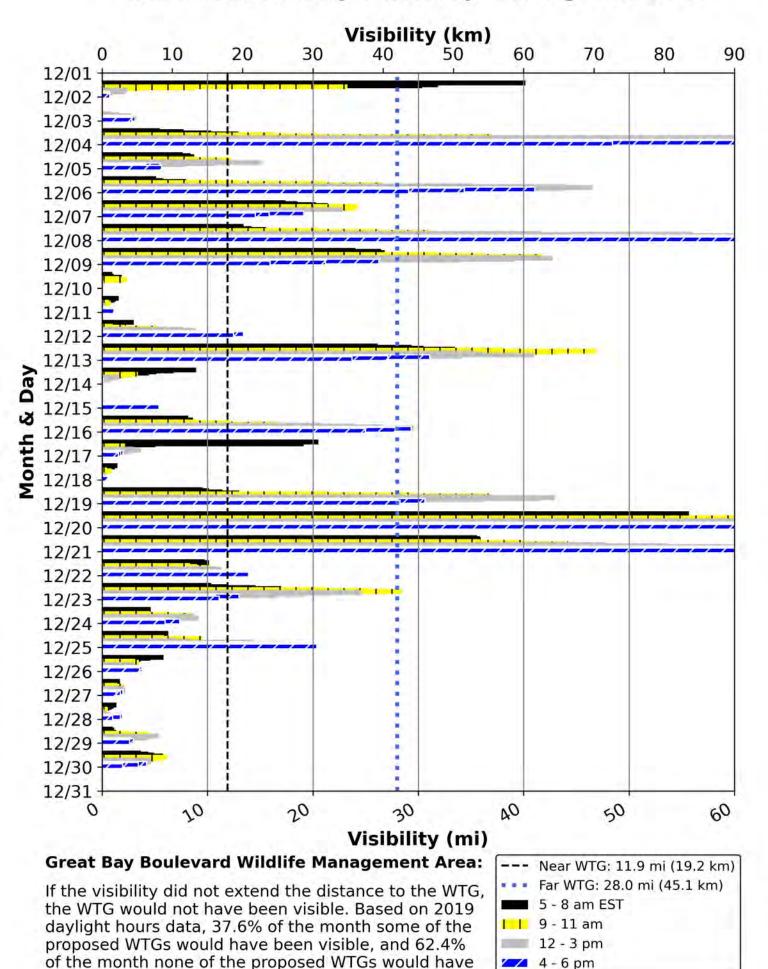
Great Bay Boulevard Wildlife Management Area (LEHT02) Hourly Visibility During Oct 2019



Great Bay Boulevard Wildlife Management Area (LEHT02) Hourly Visibility During Nov 2019



Great Bay Boulevard Wildlife Management Area (LEHT02) Hourly Visibility During Dec 2019

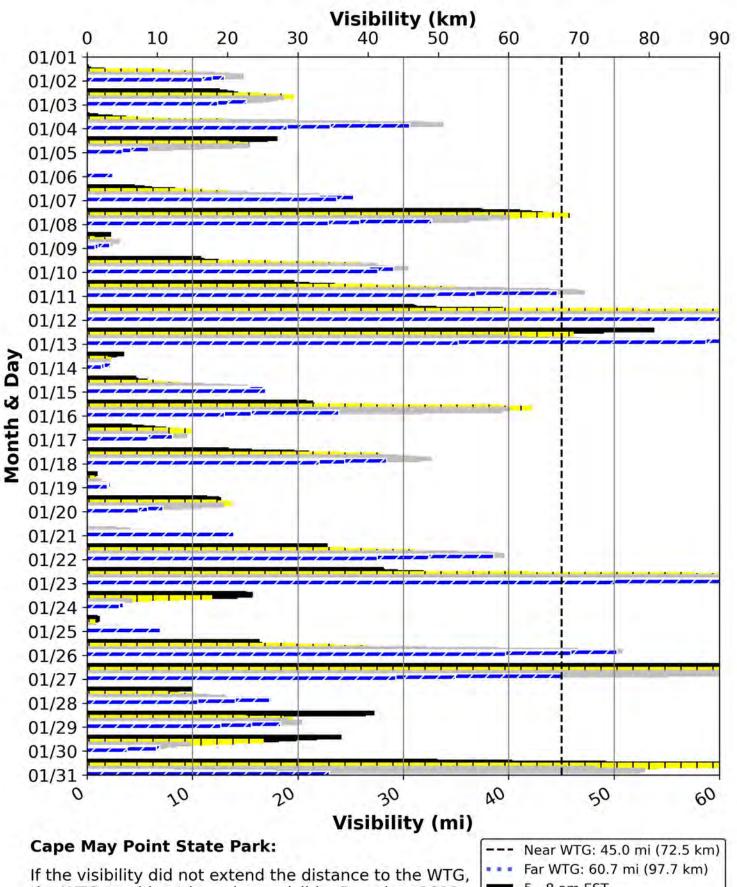


been visible.

LT02

CAPE MAY POINT STATE PARK

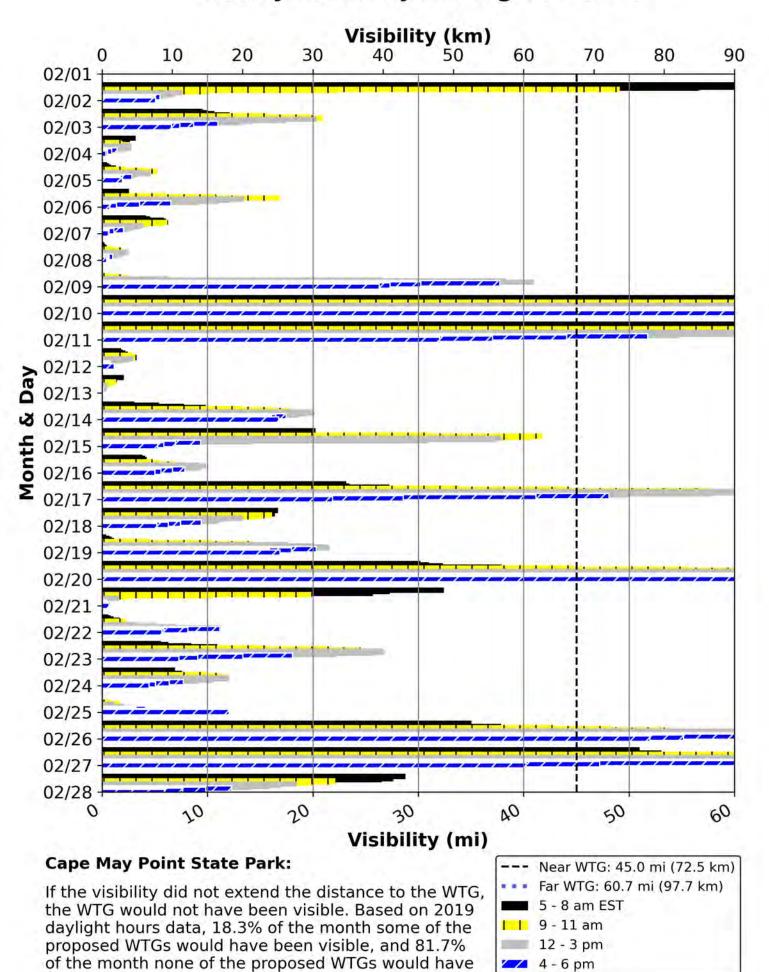
Cape May Point State Park (LT02) Hourly Visibility During Jan 2019



the WTG would not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 15.9% of the month some of the proposed WTGs would have been visible, and 84.1% of the month none of the proposed WTGs would have been visible.

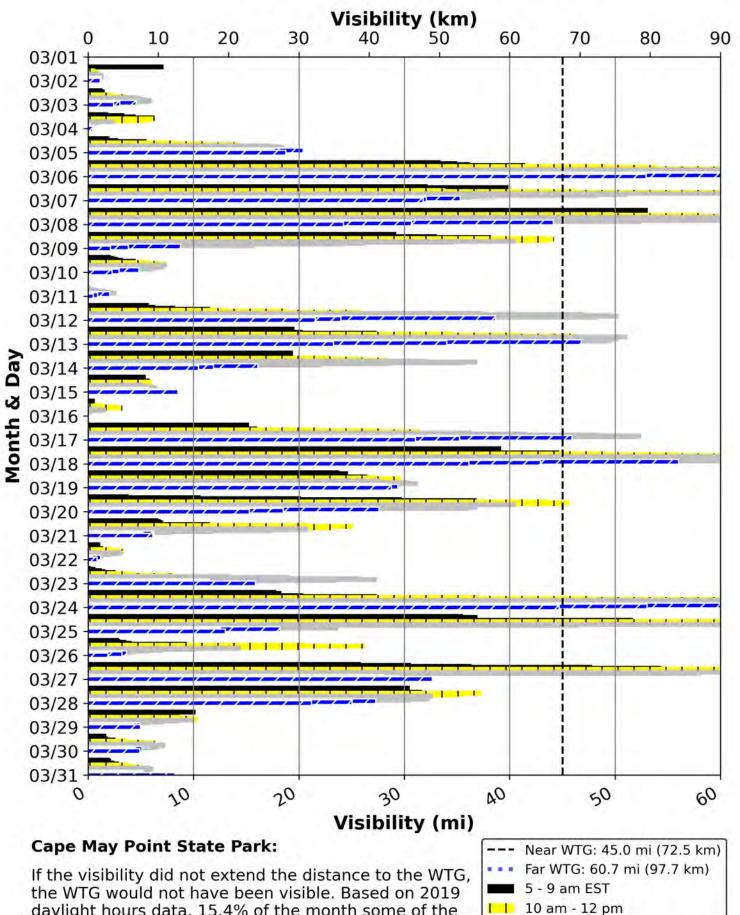
Far WTG: 60.7 mi (97.7 km)
5 - 8 am EST
9 - 11 am
12 - 3 pm
4 - 6 pm

Cape May Point State Park (LT02) Hourly Visibility During Feb 2019



been visible.

Cape May Point State Park (LT02) Hourly Visibility During Mar 2019

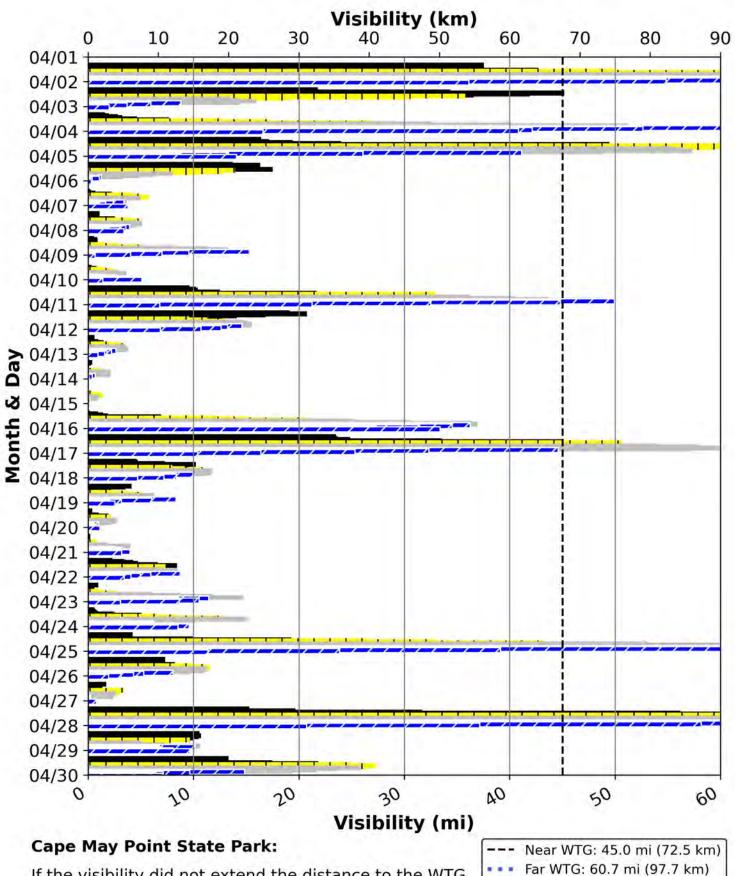


1 - 5 pm

✓ 6 - 8 pm

If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 15.4% of the month some of the proposed WTGs would have been visible, and 84.6% of the month none of the proposed WTGs would have been visible.

Cape May Point State Park (LT02) **Hourly Visibility During Apr 2019**



If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 9.4% of the month some of the proposed WTGs would have been visible, and 90.6% of the month none of the proposed WTGs would have been visible.

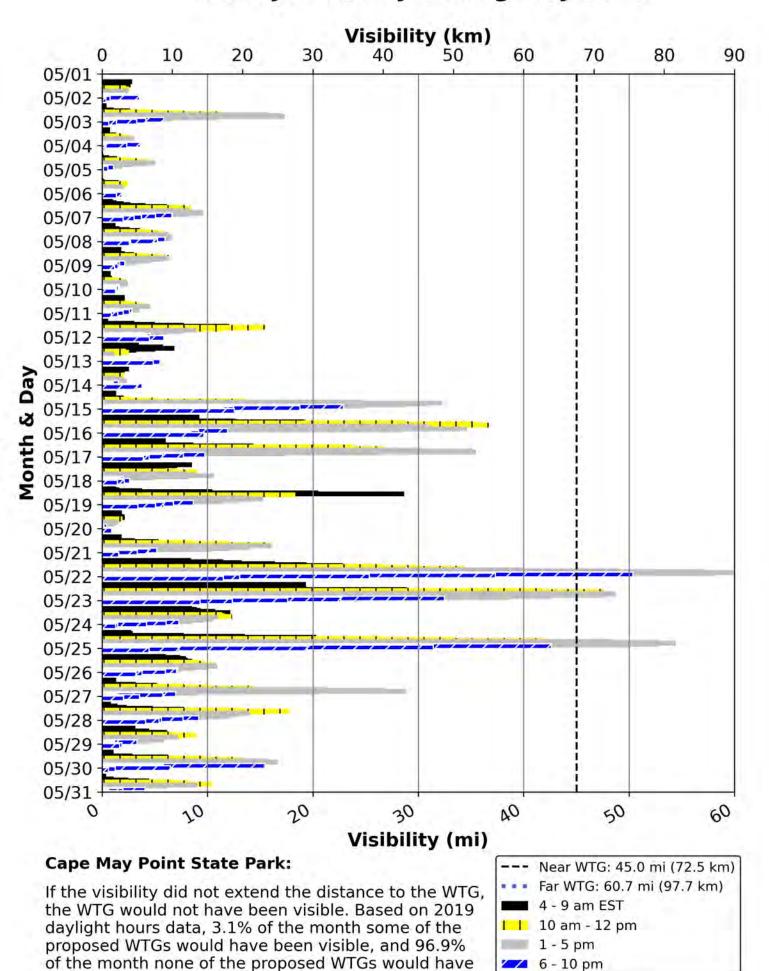
10 am - 12 pm

4 - 9 am EST

1 - 4 pm

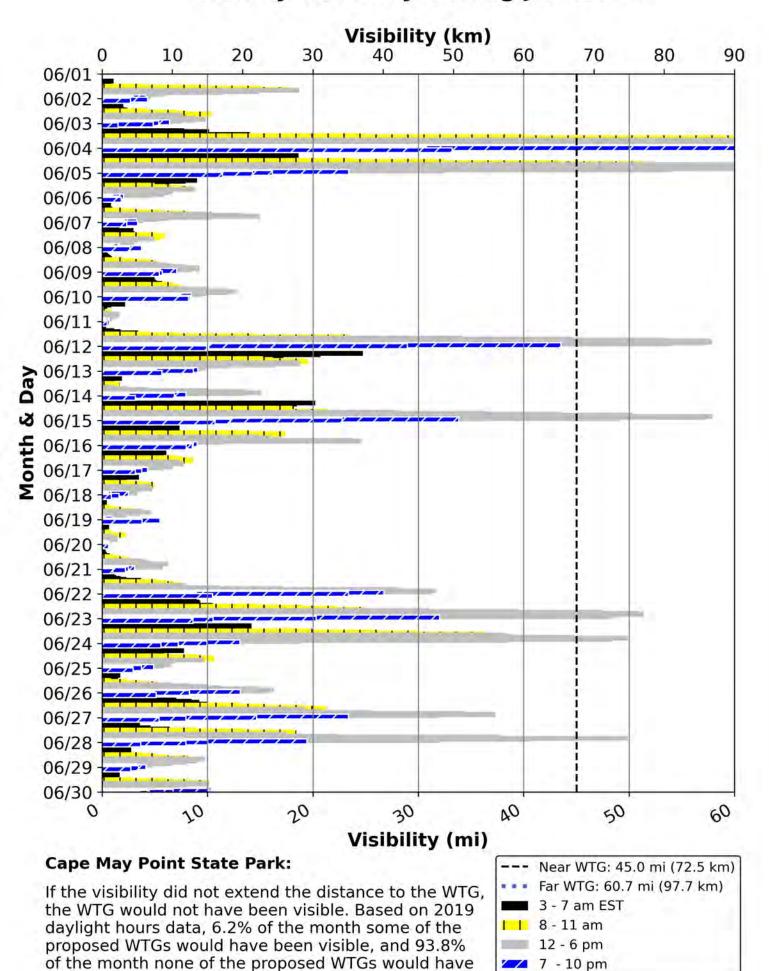
✓ 5 - 9 pm

Cape May Point State Park (LT02) Hourly Visibility During May 2019



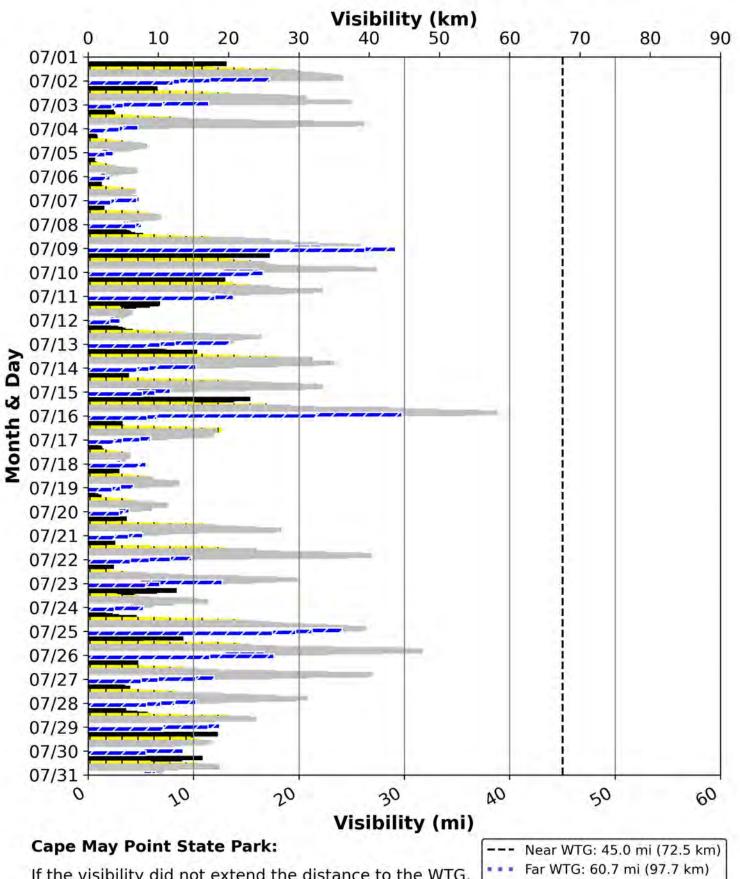
been visible.

Cape May Point State Park (LT02) Hourly Visibility During Jun 2019



been visible.

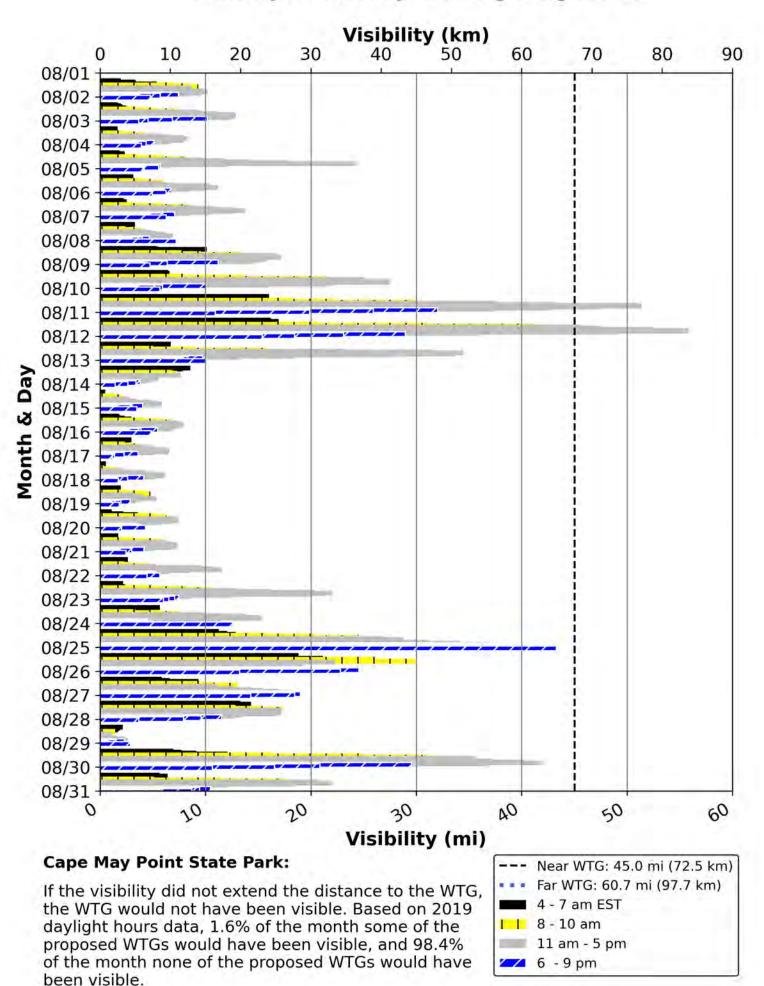
Cape May Point State Park (LT02) Hourly Visibility During Jul 2019



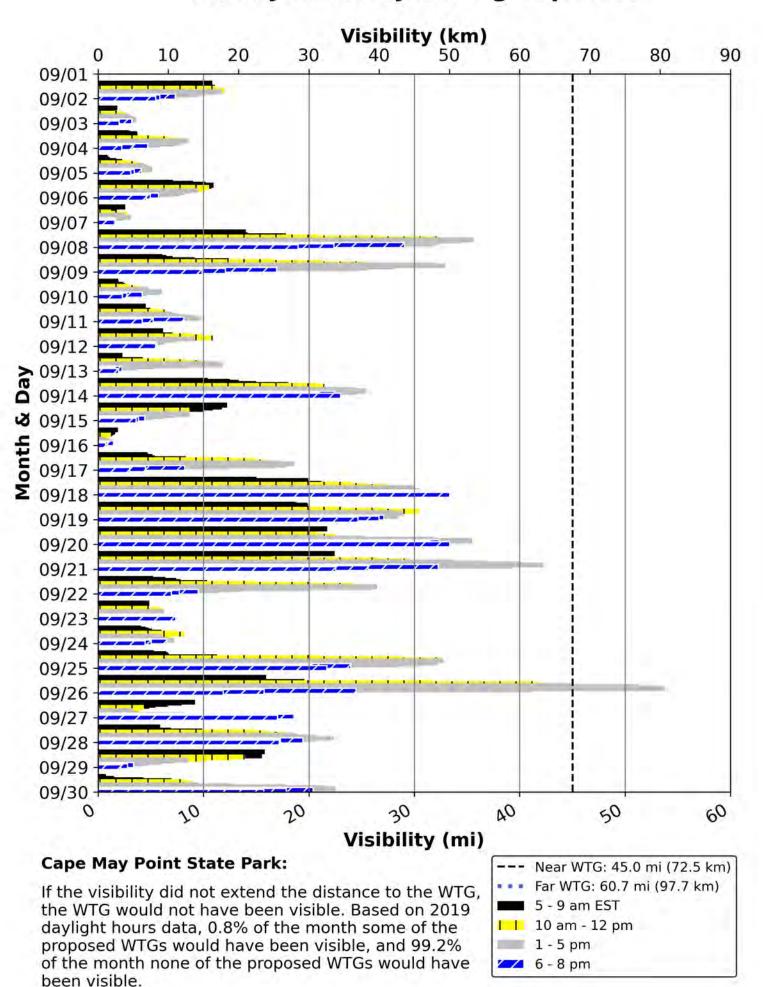
If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 0.0% of the month some of the proposed WTGs would have been visible, and 100.0% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 45.0 mi (72.5 km)
--- Far WTG: 60.7 mi (97.7 km)
--- 3 - 7 am EST
--- 8 - 10 am
--- 11 am - 6 pm
--- 7 - 10 pm

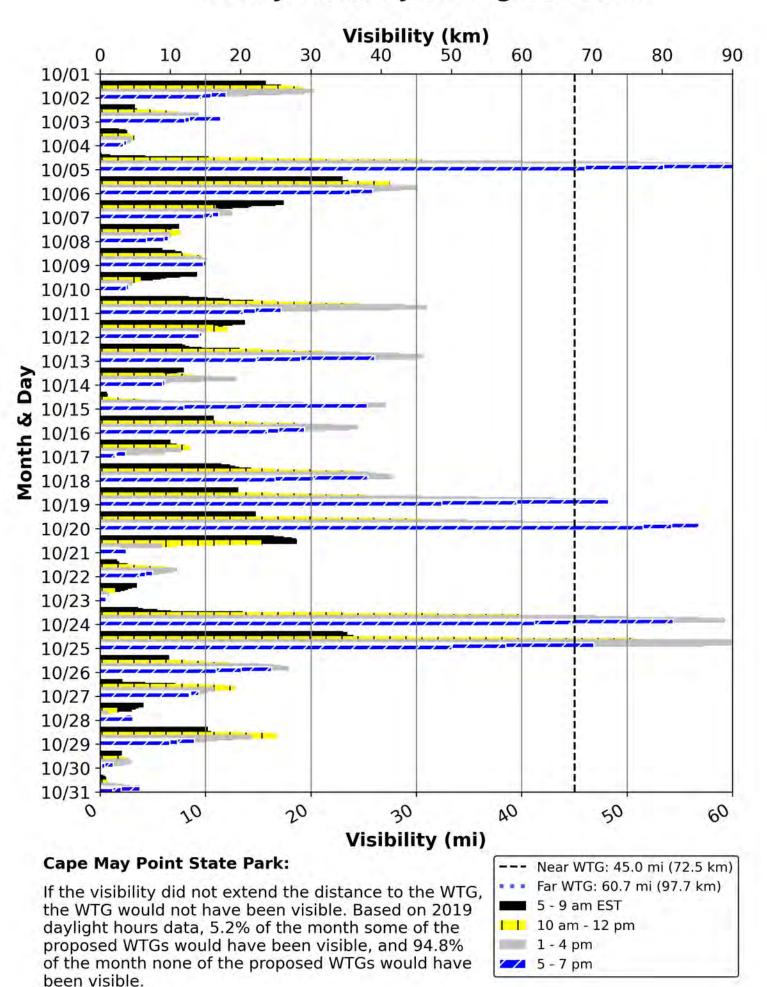
Cape May Point State Park (LT02) Hourly Visibility During Aug 2019



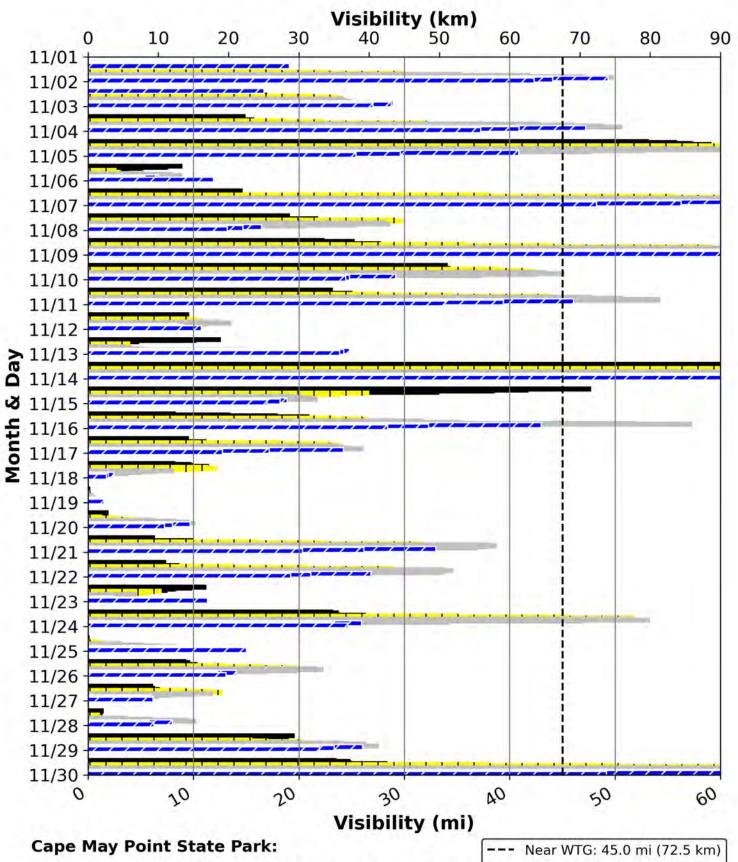
Cape May Point State Park (LT02) Hourly Visibility During Sep 2019



Cape May Point State Park (LT02) Hourly Visibility During Oct 2019



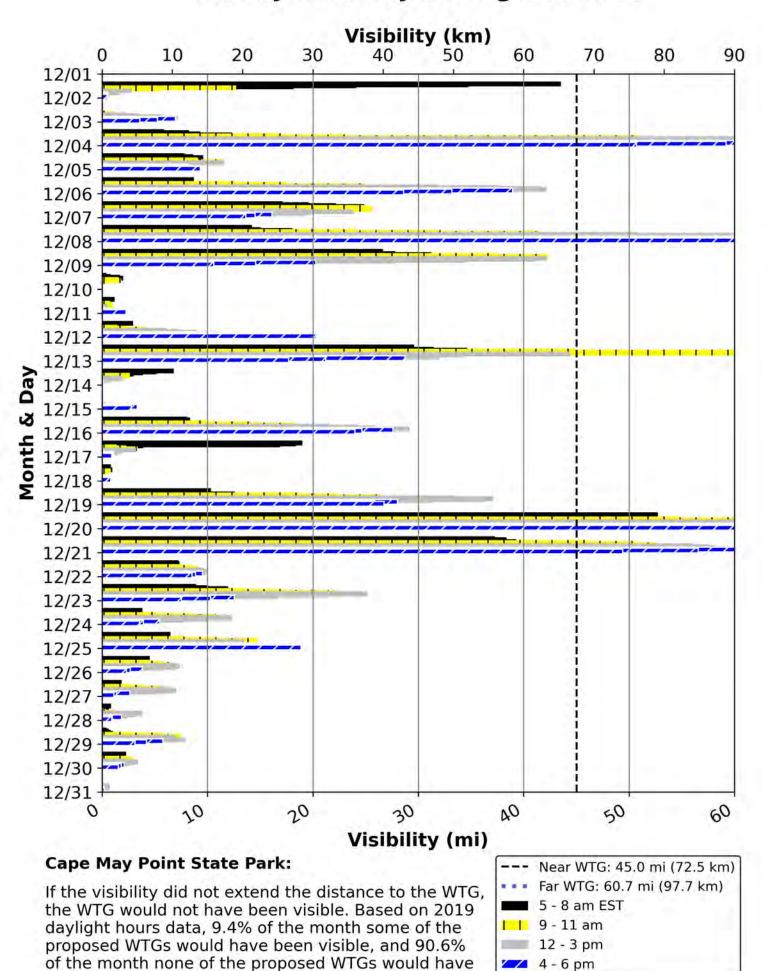
Cape May Point State Park (LT02) Hourly Visibility During Nov 2019



If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 19.0% of the month some of the proposed WTGs would have been visible, and 81.0% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 45.0 mi (72.5 km)
--- Far WTG: 60.7 mi (97.7 km)
--- 5 - 8 am EST
--- 9 - 11 am
--- 12 - 3 pm
--- 4 - 6 pm

Cape May Point State Park (LT02) Hourly Visibility During Dec 2019

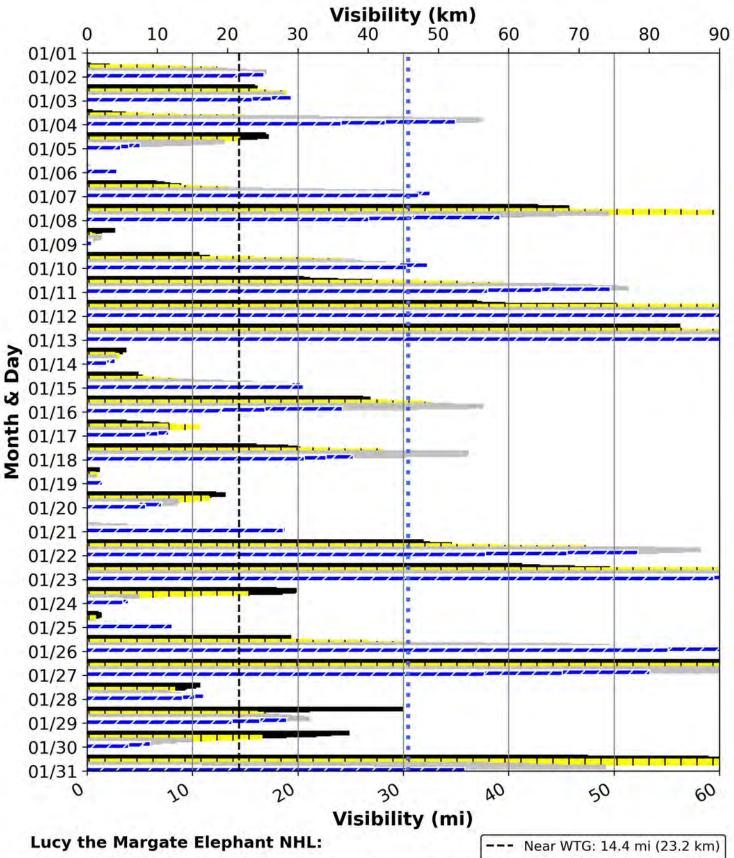


been visible.

MC02

LUCY THE MARGATE ELEPHANT NATIONAL HISTORIC LANDMARK

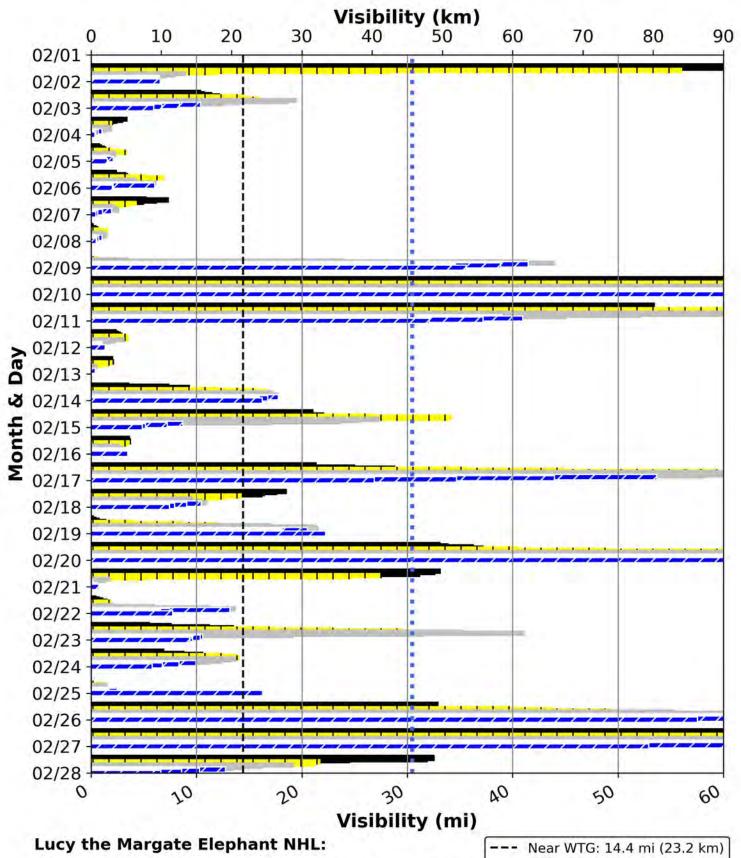
Lucy the Margate Elephant NHL (MC02) Hourly Visibility During Jan 2019



If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 56.7% of the month some of the proposed WTGs would have been visible, and 43.3% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 14.4 mi (23.2 km)
--- Far WTG: 30.5 mi (49.0 km)
--- 5 - 8 am EST
--- 11 am
--- 12 - 3 pm
--- 4 - 6 pm

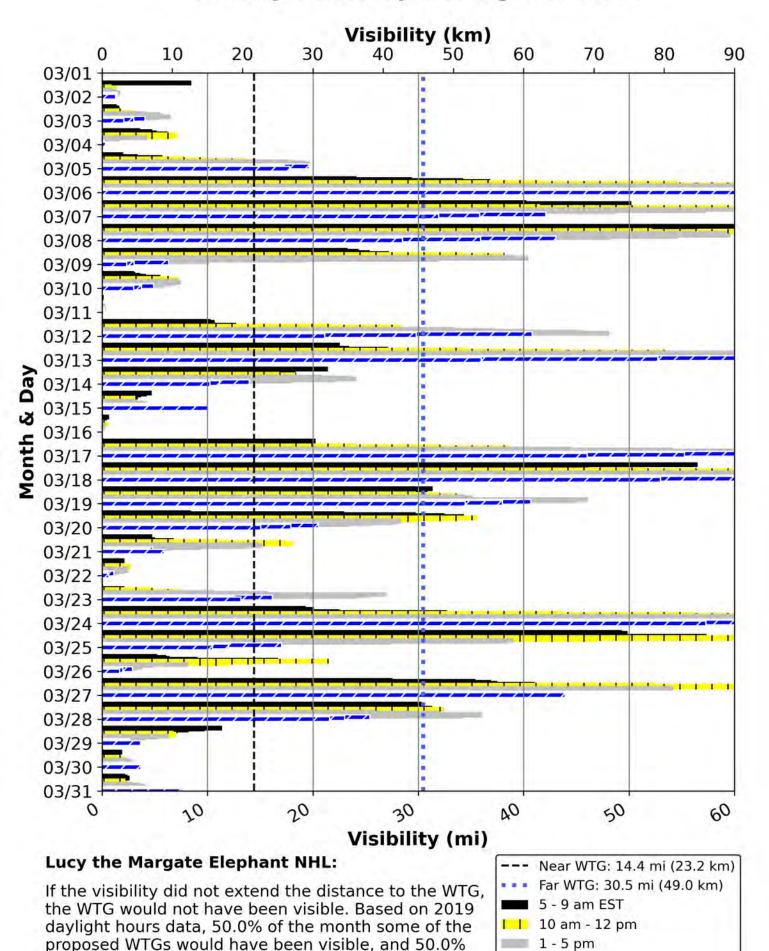
Lucy the Margate Elephant NHL (MC02) Hourly Visibility During Feb 2019



If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 41.2% of the month some of the proposed WTGs would have been visible, and 58.8% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 14.4 mi (23.2 km)
--- Far WTG: 30.5 mi (49.0 km)
--- 5 - 8 am EST
--- 9 - 11 am
--- 12 - 3 pm
--- 4 - 6 pm

Lucy the Margate Elephant NHL (MC02) Hourly Visibility During Mar 2019

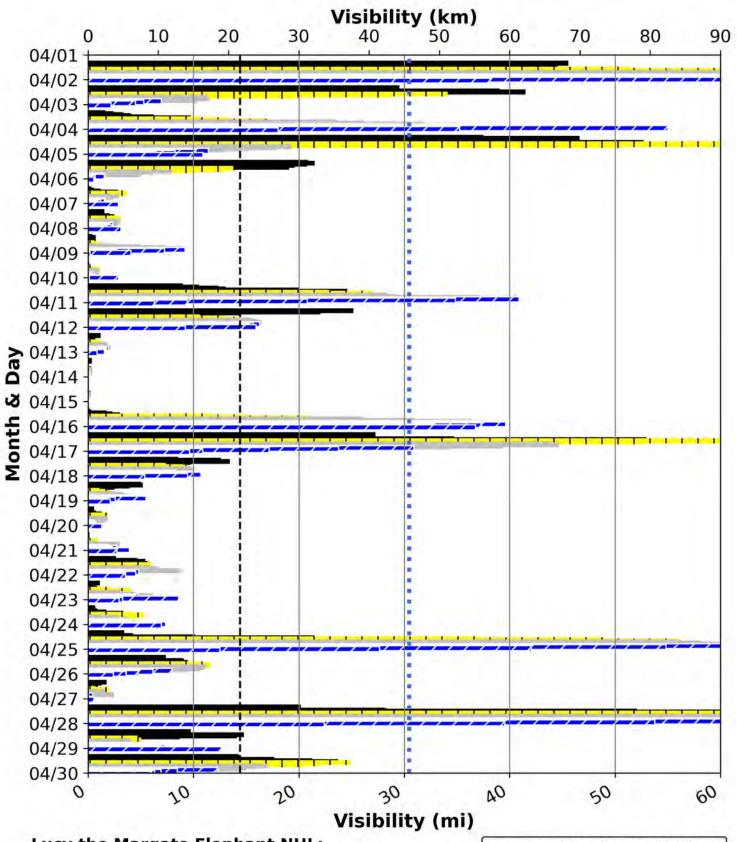


✓ 6 - 8 pm

of the month none of the proposed WTGs would have

been visible.

Lucy the Margate Elephant NHL (MC02) Hourly Visibility During Apr 2019

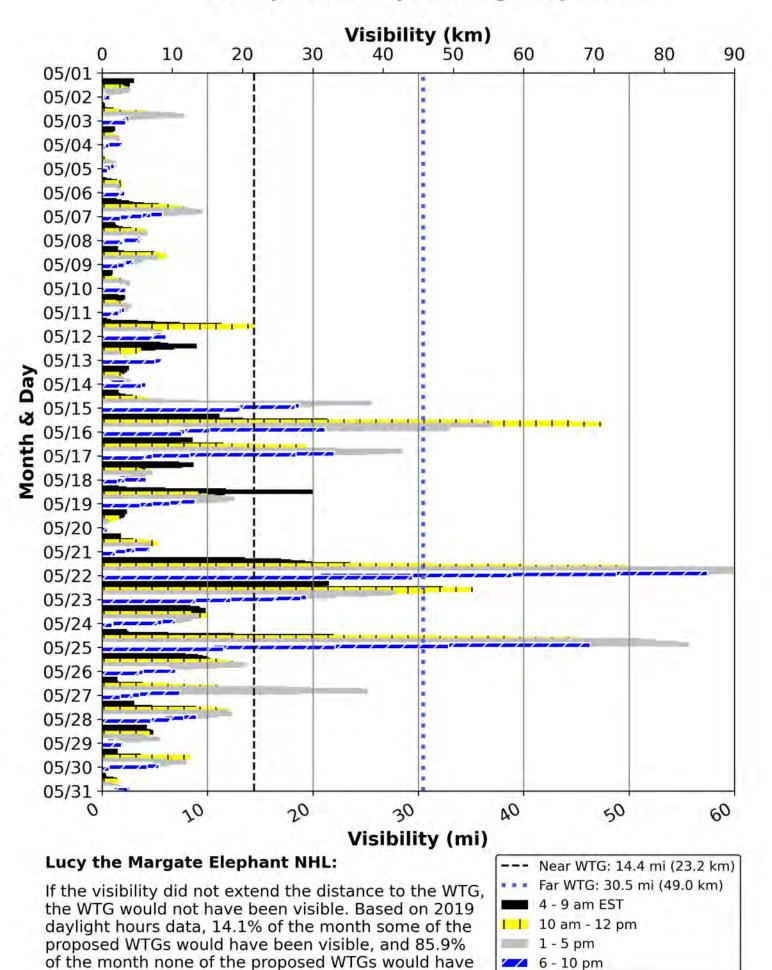


Lucy the Margate Elephant NHL:

If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 26.9% of the month some of the proposed WTGs would have been visible, and 73.1% of the month none of the proposed WTGs would have been visible.

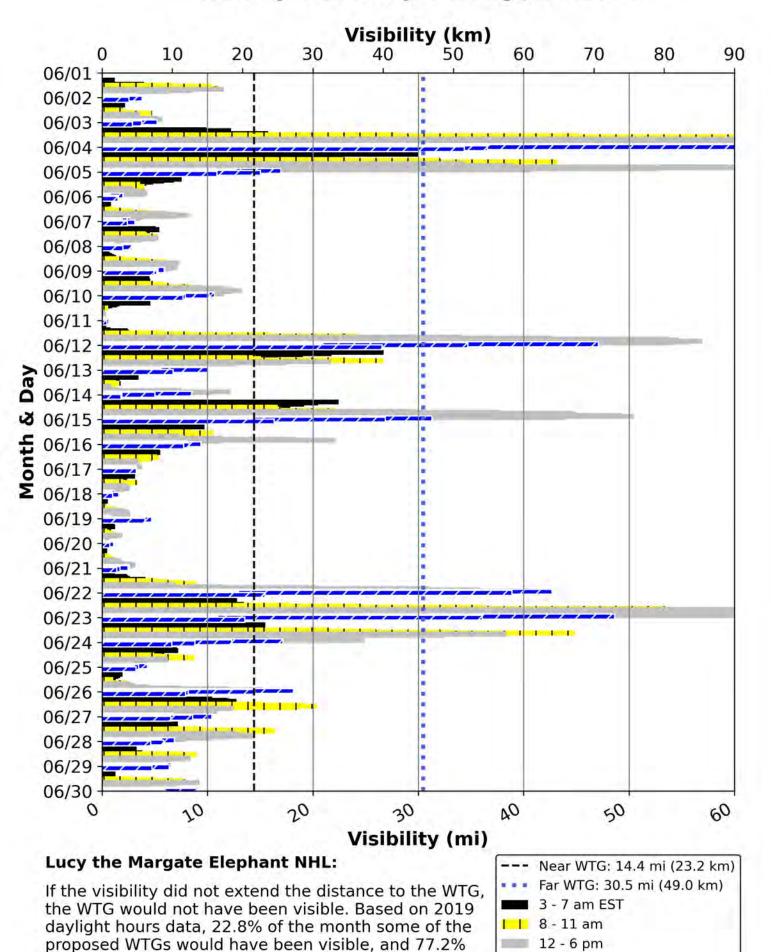
--- Near WTG: 14.4 mi (23.2 km)
--- Far WTG: 30.5 mi (49.0 km)
--- 4 - 9 am EST
--- 10 am - 12 pm
--- 1 - 4 pm
--- 5 - 9 pm

Lucy the Margate Elephant NHL (MC02) Hourly Visibility During May 2019



been visible.

Lucy the Margate Elephant NHL (MC02) Hourly Visibility During Jun 2019

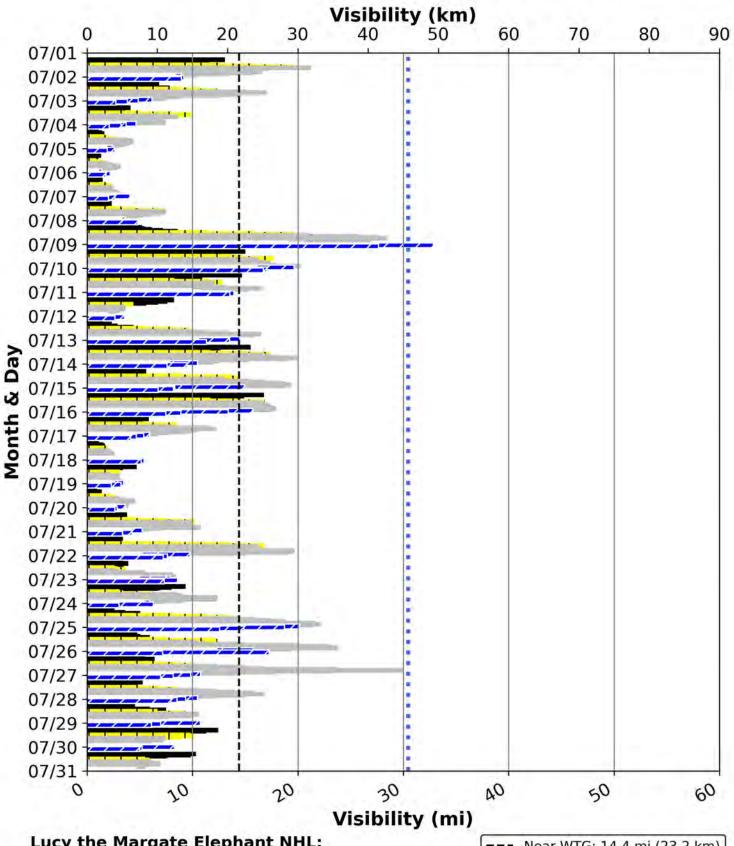


7 - 10 pm

of the month none of the proposed WTGs would have

been visible.

Lucy the Margate Elephant NHL (MC02) **Hourly Visibility During Jul 2019**

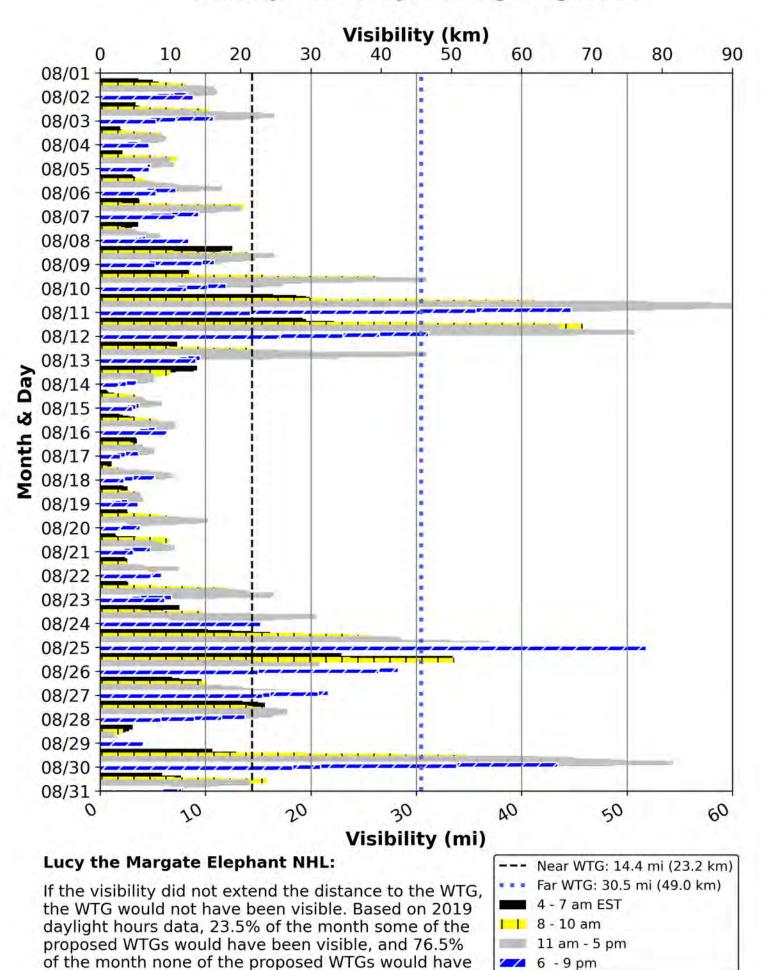


Lucy the Margate Elephant NHL:

If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 17.7% of the month some of the proposed WTGs would have been visible, and 82.3% of the month none of the proposed WTGs would have been visible.

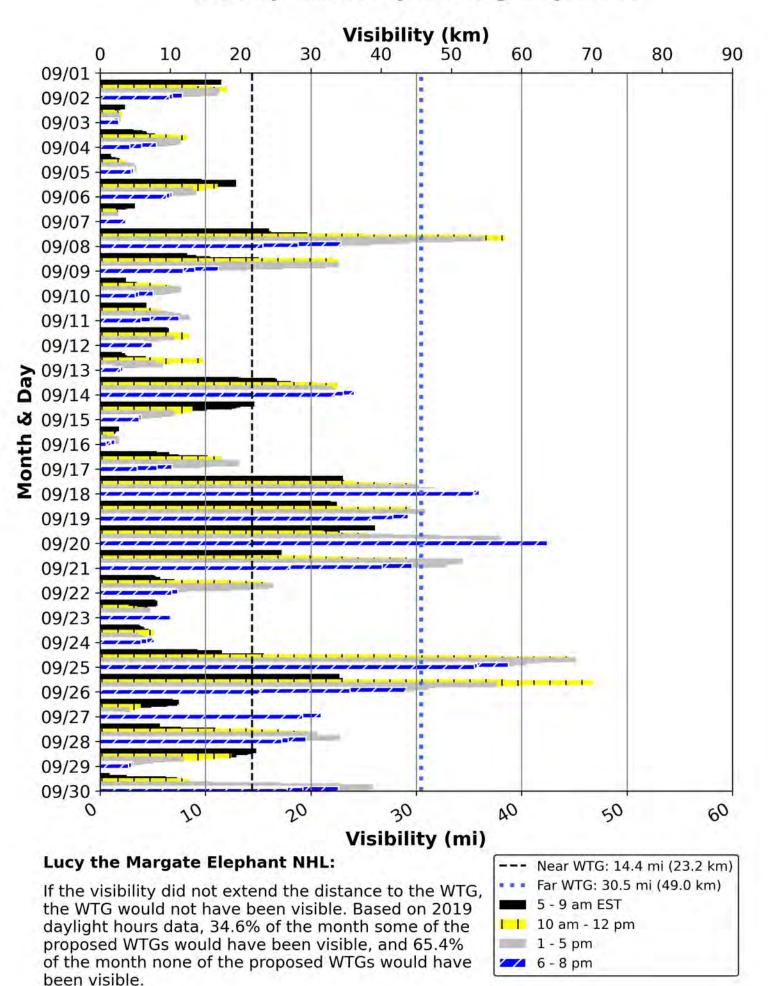
Near WTG: 14.4 mi (23.2 km) Far WTG: 30.5 mi (49.0 km) 3 - 7 am EST | 8 - 10 am 11 am - 6 pm 7 - 10 pm

Lucy the Margate Elephant NHL (MC02) Hourly Visibility During Aug 2019

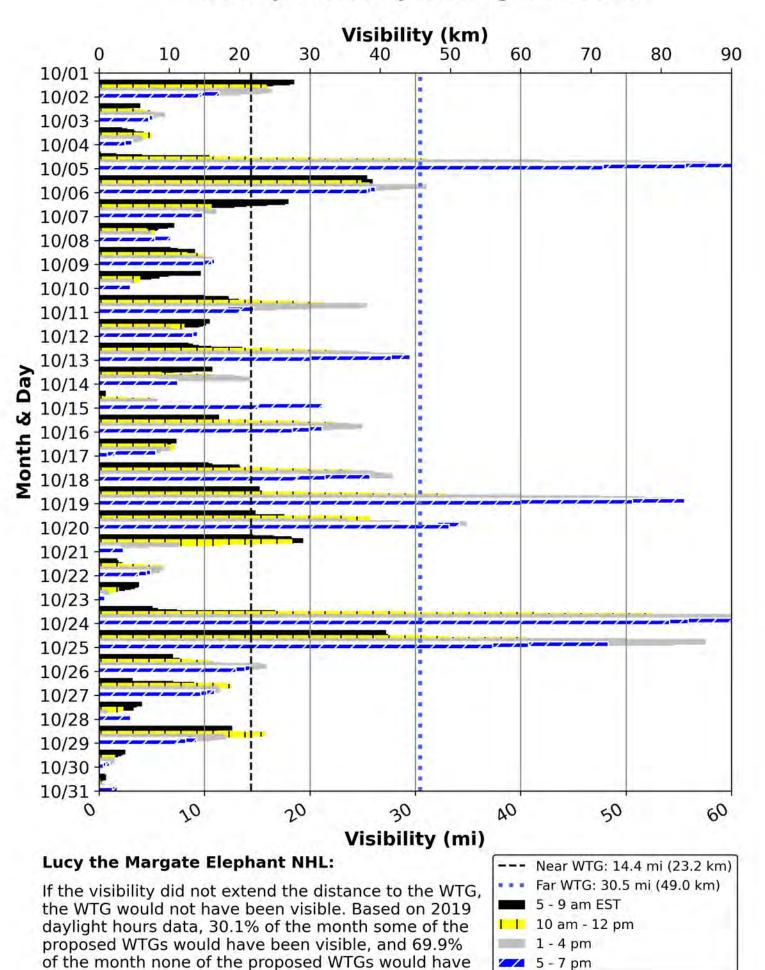


been visible.

Lucy the Margate Elephant NHL (MC02) Hourly Visibility During Sep 2019

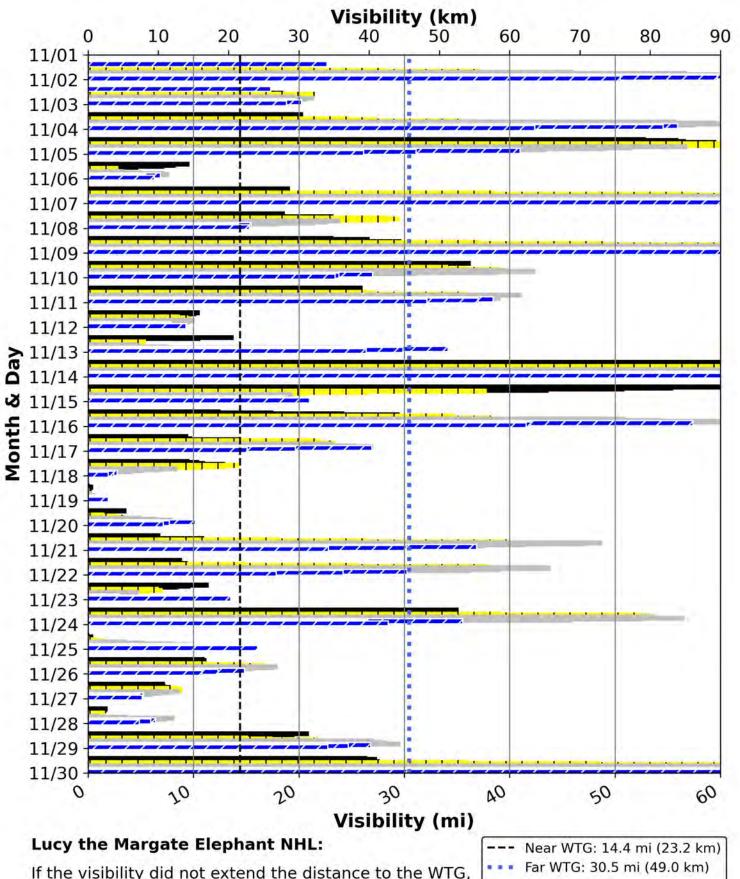


Lucy the Margate Elephant NHL (MC02) Hourly Visibility During Oct 2019



been visible.

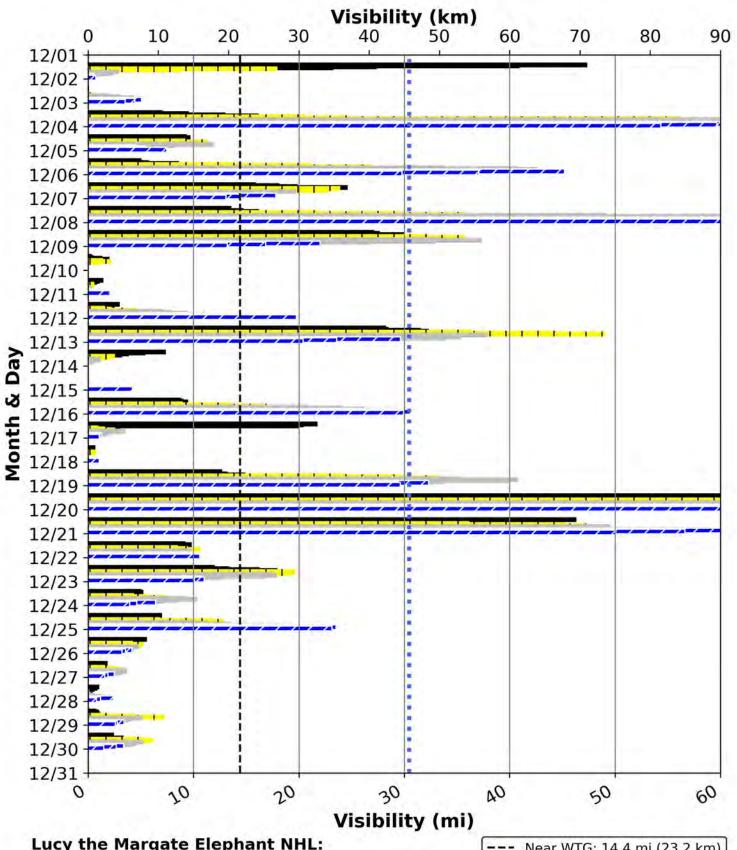
Lucy the Margate Elephant NHL (MC02) Hourly Visibility During Nov 2019



If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 62.1% of the month some of the proposed WTGs would have been visible, and 37.9% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 14.4 mi (23.2 km)
--- Far WTG: 30.5 mi (49.0 km)
--- 5 - 8 am EST
--- 11 am
--- 12 - 3 pm
--- 4 - 6 pm

Lucy the Margate Elephant NHL (MC02) **Hourly Visibility During Dec 2019**



Lucy the Margate Elephant NHL:

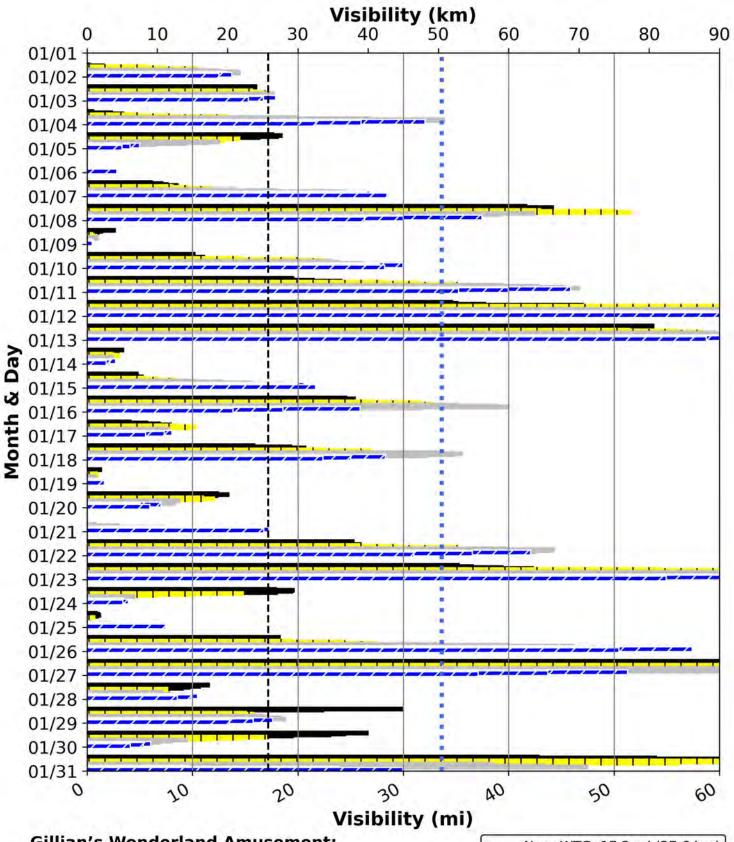
If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 33.6% of the month some of the proposed WTGs would have been visible, and 66.4% of the month none of the proposed WTGs would have been visible.

Near WTG: 14.4 mi (23.2 km) Far WTG: 30.5 mi (49.0 km) 5 - 8 am EST 1 9 - 11 am 12 - 3 pm 4 - 6 pm

OC04

GILLIAN'S WONDERLAND PIER

Gillian's Wonderland Amusement (OC04) **Hourly Visibility During Jan 2019**

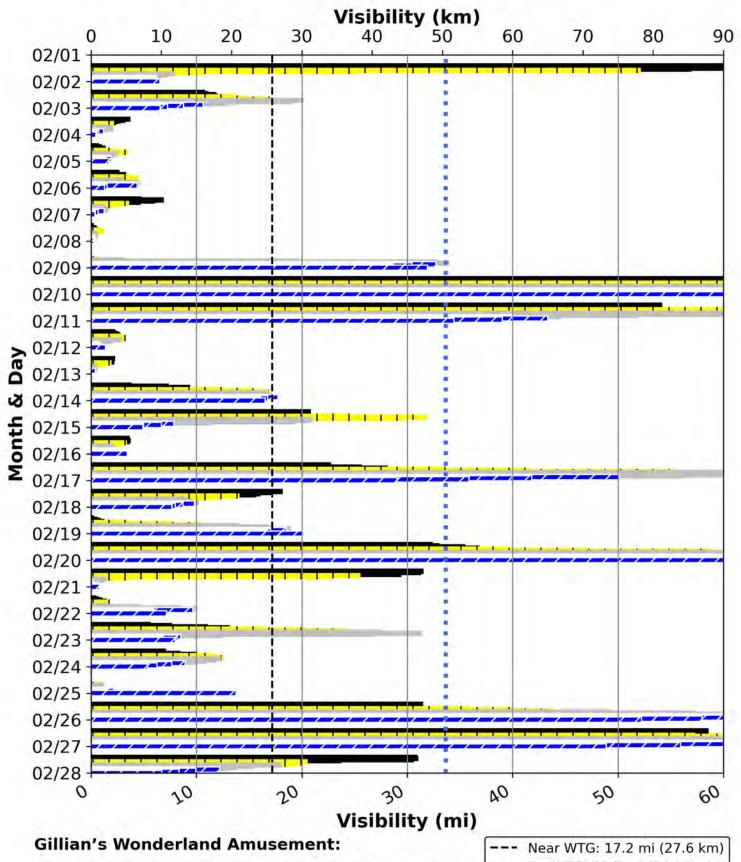


Gillian's Wonderland Amusement:

If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 48.2% of the month some of the proposed WTGs would have been visible, and 51.8% of the month none of the proposed WTGs would have been visible.

Near WTG: 17.2 mi (27.6 km) Far WTG: 33.7 mi (54.1 km) 5 - 8 am EST 9 - 11 am 12 - 3 pm 4 - 6 pm

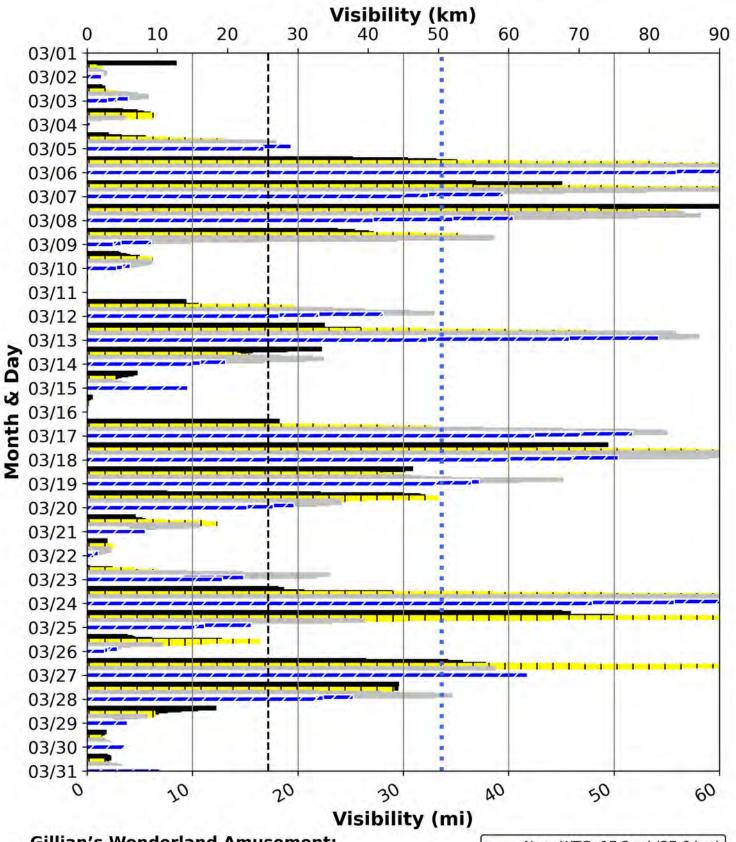
Gillian's Wonderland Amusement (OC04) Hourly Visibility During Feb 2019



If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 35.2% of the month some of the proposed WTGs would have been visible, and 64.8% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 17.2 mi (27.6 km)
--- Far WTG: 33.7 mi (54.1 km)
5 - 8 am EST
--- 11 am
---- 12 - 3 pm
---- 4 - 6 pm

Gillian's Wonderland Amusement (OC04) **Hourly Visibility During Mar 2019**

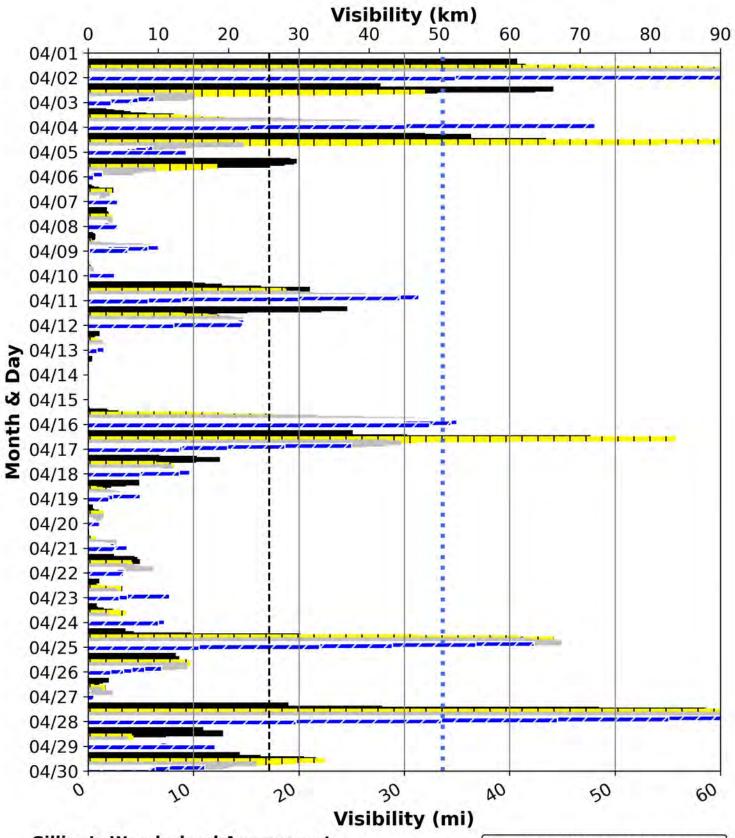


Gillian's Wonderland Amusement:

If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 43.6% of the month some of the proposed WTGs would have been visible, and 56.4% of the month none of the proposed WTGs would have been visible.

Near WTG: 17.2 mi (27.6 km) Far WTG: 33.7 mi (54.1 km) 5 - 9 am EST 10 am - 12 pm 1 - 5 pm ✓ 6 - 8 pm

Gillian's Wonderland Amusement (OC04) Hourly Visibility During Apr 2019

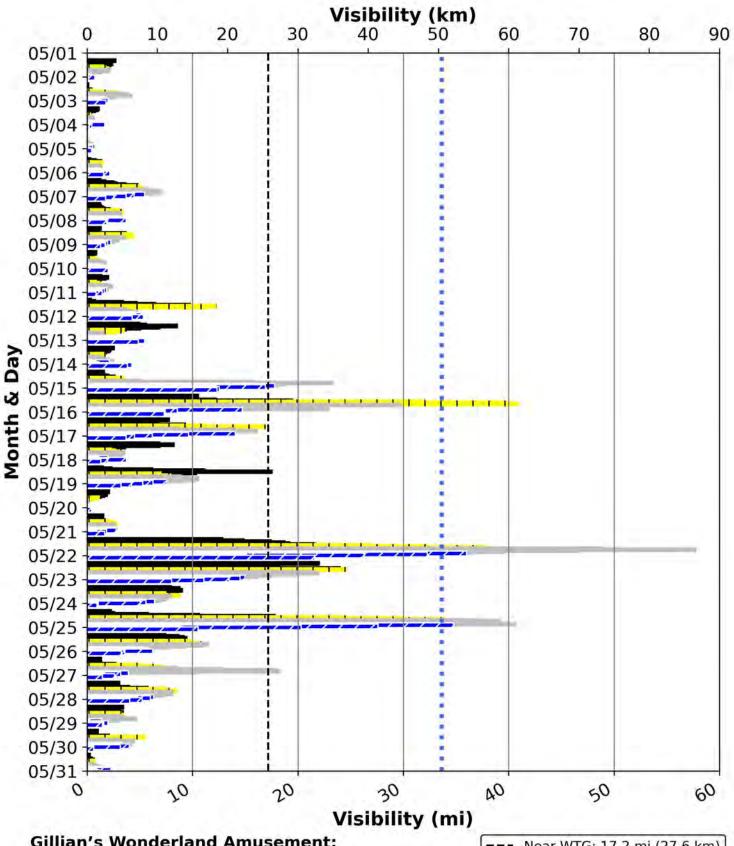


Gillian's Wonderland Amusement:

If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 22.4% of the month some of the proposed WTGs would have been visible, and 77.6% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 17.2 mi (27.6 km)
--- Far WTG: 33.7 mi (54.1 km)
--- 4 - 9 am EST
--- 10 am - 12 pm
--- 1 - 4 pm
--- 5 - 9 pm

Gillian's Wonderland Amusement (OC04) **Hourly Visibility During May 2019**

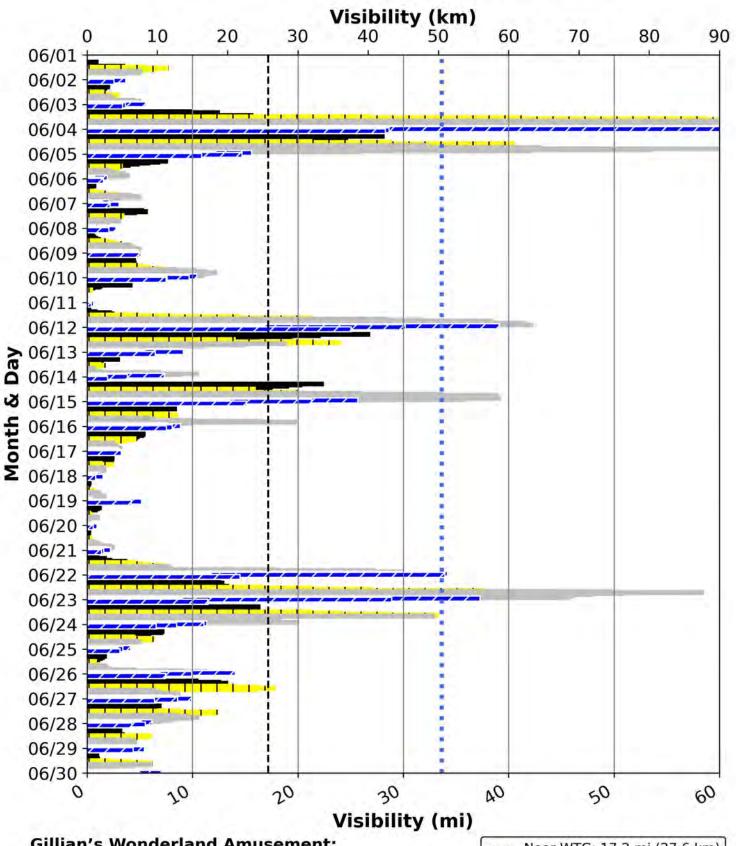


Gillian's Wonderland Amusement:

If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 10.0% of the month some of the proposed WTGs would have been visible, and 90.0% of the month none of the proposed WTGs would have been visible.

Near WTG: 17.2 mi (27.6 km) Far WTG: 33.7 mi (54.1 km) 4 - 9 am EST 10 am - 12 pm 1 - 5 pm 6 - 10 pm

Gillian's Wonderland Amusement (OC04) **Hourly Visibility During Jun 2019**

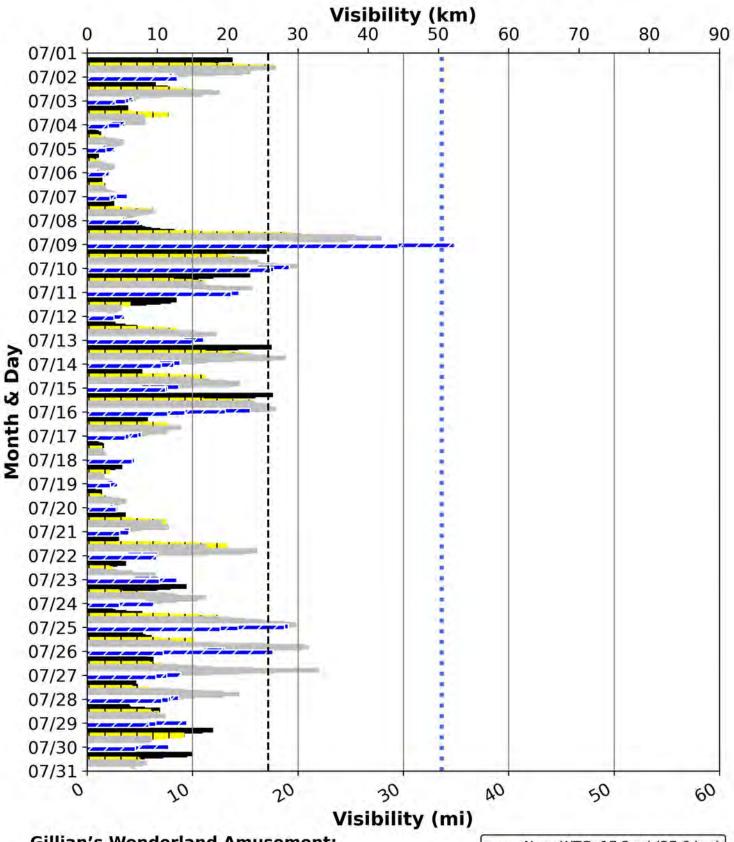


Gillian's Wonderland Amusement:

If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 16.8% of the month some of the proposed WTGs would have been visible, and 83.2% of the month none of the proposed WTGs would have been visible.

Near WTG: 17.2 mi (27.6 km) Far WTG: 33.7 mi (54.1 km) 3 - 7 am EST | 8 - 11 am 12 - 6 pm 7 - 10 pm

Gillian's Wonderland Amusement (OC04) **Hourly Visibility During Jul 2019**

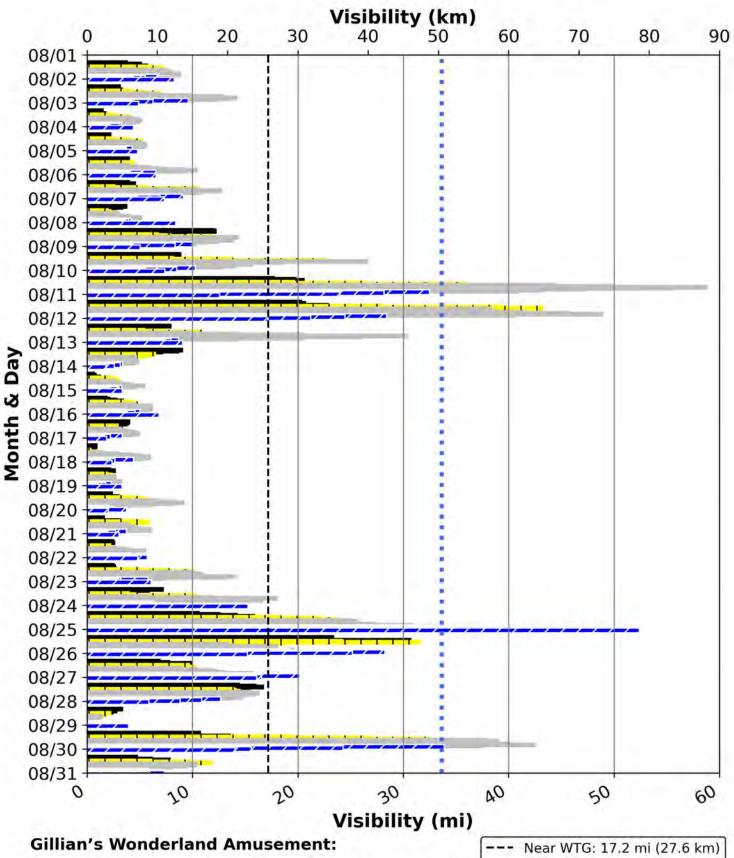


Gillian's Wonderland Amusement:

If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 6.5% of the month some of the proposed WTGs would have been visible, and 93.5% of the month none of the proposed WTGs would have been visible.

Near WTG: 17.2 mi (27.6 km) Far WTG: 33.7 mi (54.1 km) 3 - 7 am EST | 8 - 10 am 11 am - 6 pm 7 - 10 pm

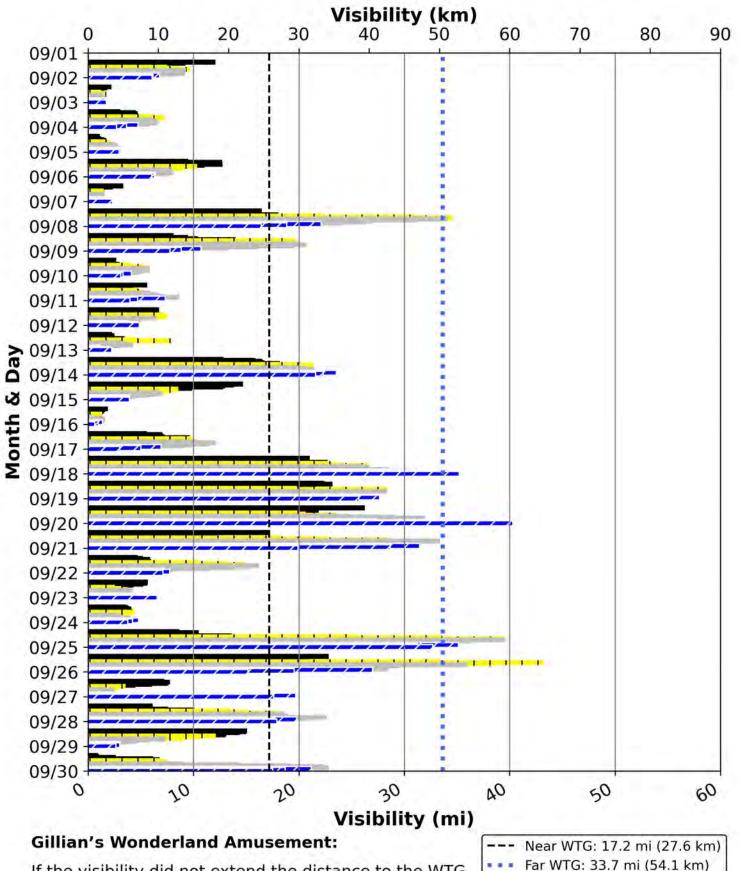
Gillian's Wonderland Amusement (OC04) Hourly Visibility During Aug 2019



If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 15.2% of the month some of the proposed WTGs would have been visible, and 84.8% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 17.2 mi (27.6 km)
--- Far WTG: 33.7 mi (54.1 km)
--- 4 - 7 am EST
--- 11 8 - 10 am
--- 11 am - 5 pm
--- 6 - 9 pm

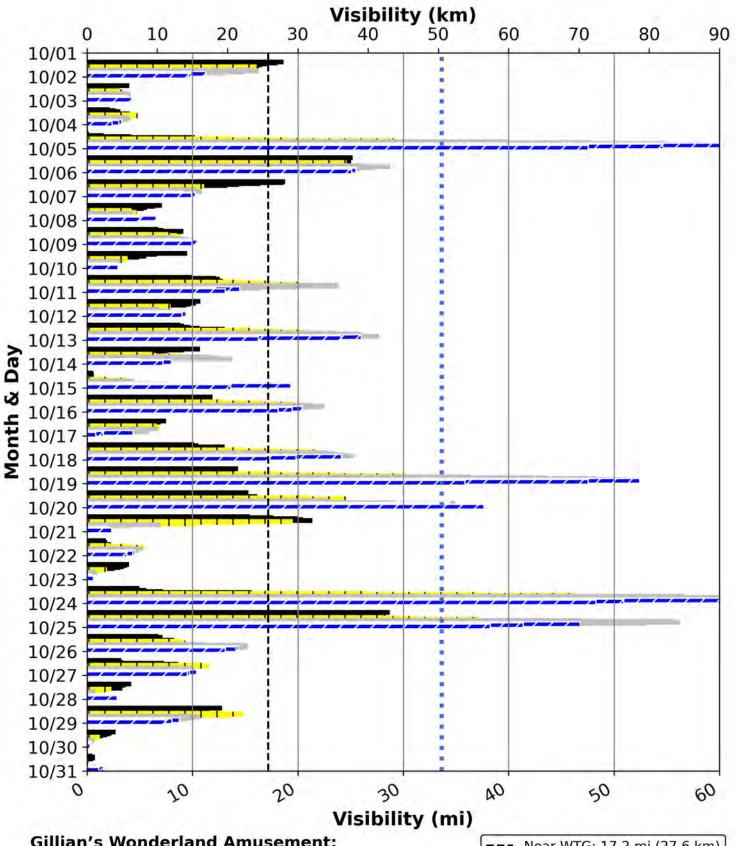
Gillian's Wonderland Amusement (OC04) Hourly Visibility During Sep 2019



If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 29.0% of the month some of the proposed WTGs would have been visible, and 71.0% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 17.2 mi (27.6 km)
--- Far WTG: 33.7 mi (54.1 km)
--- 5 - 9 am EST
--- 10 am - 12 pm
--- 1 - 5 pm
--- 6 - 8 pm

Gillian's Wonderland Amusement (OC04) **Hourly Visibility During Oct 2019**

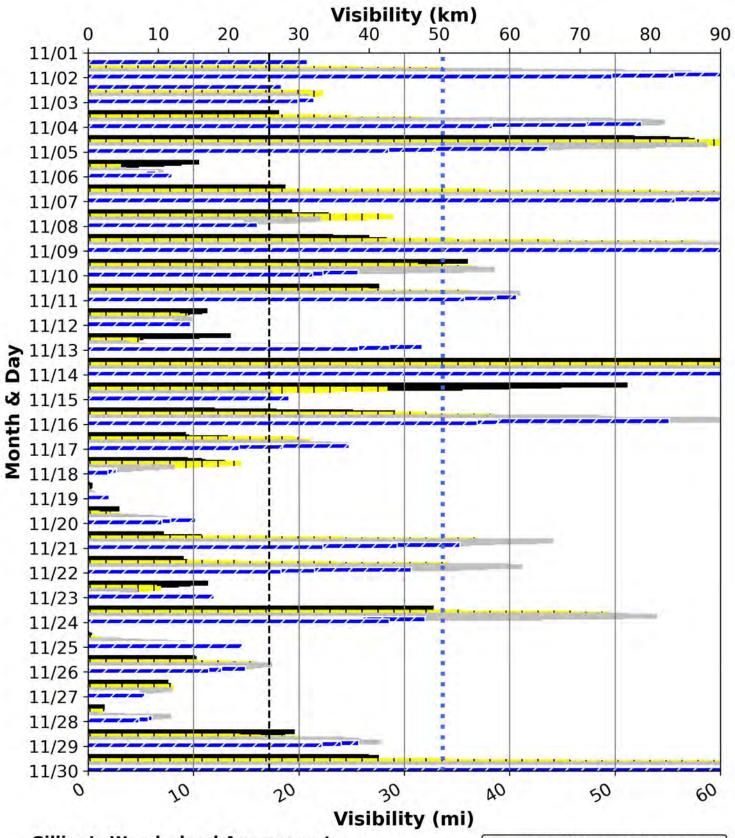


Gillian's Wonderland Amusement:

If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 23.4% of the month some of the proposed WTGs would have been visible, and 76.6% of the month none of the proposed WTGs would have been visible.

Near WTG: 17.2 mi (27.6 km) Far WTG: 33.7 mi (54.1 km) 5 - 9 am EST 10 am - 12 pm 1 - 4 pm ✓ 5 - 7 pm

Gillian's Wonderland Amusement (OC04) Hourly Visibility During Nov 2019

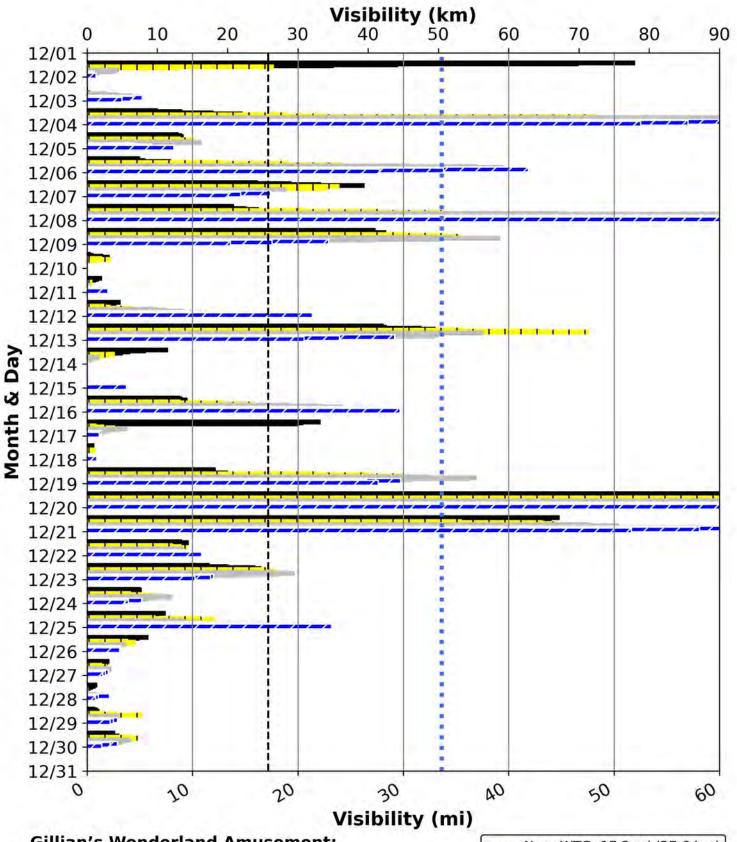


Gillian's Wonderland Amusement:

If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 55.9% of the month some of the proposed WTGs would have been visible, and 44.1% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 17.2 mi (27.6 km)
Far WTG: 33.7 mi (54.1 km)
5 - 8 am EST
9 - 11 am
12 - 3 pm
4 - 6 pm

Gillian's Wonderland Amusement (OC04) **Hourly Visibility During Dec 2019**



Gillian's Wonderland Amusement:

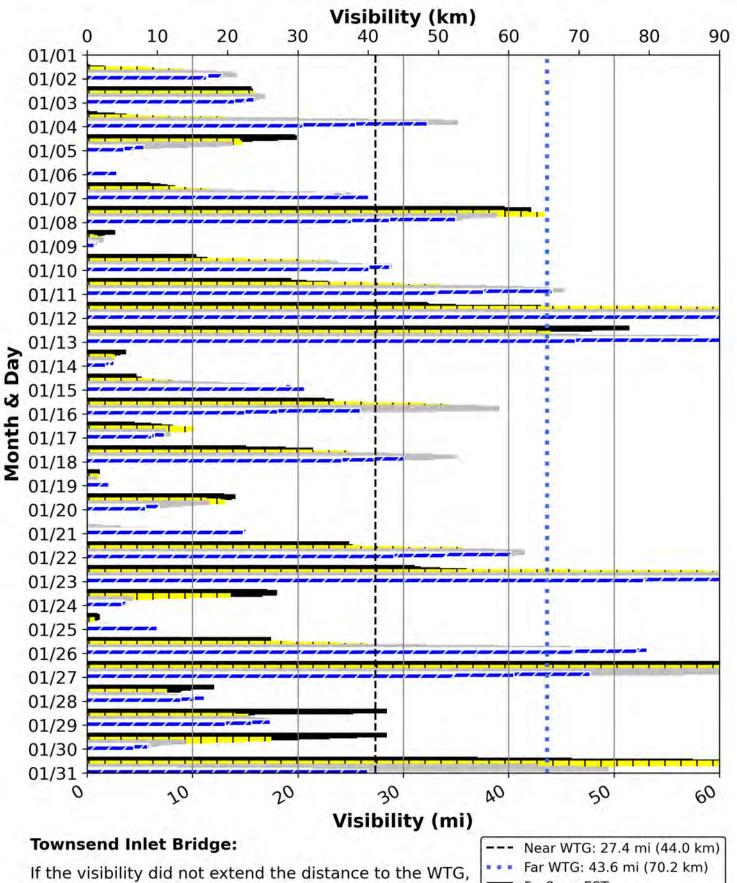
If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 29.3% of the month some of the proposed WTGs would have been visible, and 70.7% of the month none of the proposed WTGs would have been visible.

Near WTG: 17.2 mi (27.6 km) Far WTG: 33.7 mi (54.1 km) 5 - 8 am EST 9 - 11 am 12 - 3 pm ✓ 4 - 6 pm

SIC02

TOWNSEND'S INLET BRIDGE

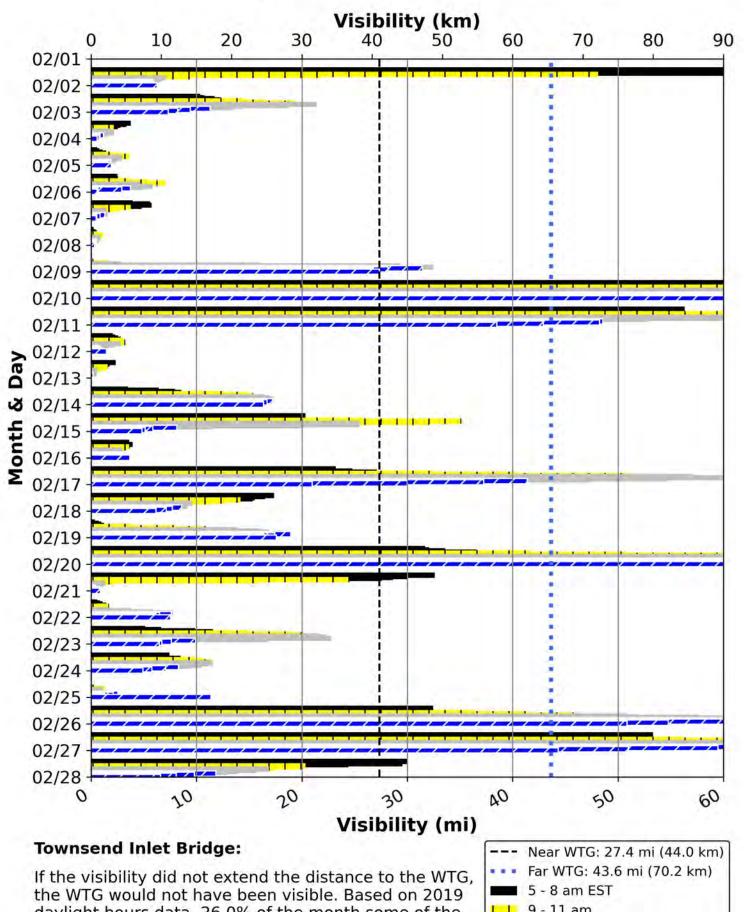
Townsend Inlet Bridge (SIC02) Hourly Visibility During Jan 2019



If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 31.6% of the month some of the proposed WTGs would have been visible, and 68.4% of the month none of the proposed WTGs would have been visible.

Far WTG: 43.6 mi (70.2 km)
5 - 8 am EST
9 - 11 am
12 - 3 pm
4 - 6 pm

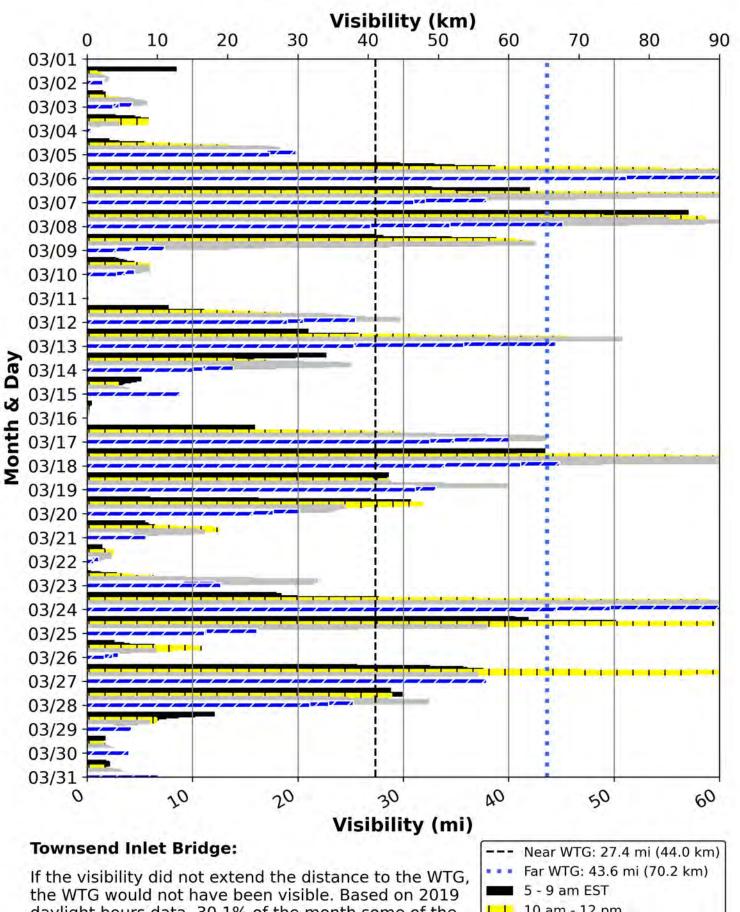
Townsend Inlet Bridge (SIC02) Hourly Visibility During Feb 2019



daylight hours data, 26.0% of the month some of the proposed WTGs would have been visible, and 74.0% of the month none of the proposed WTGs would have been visible.

9 - 11 am 12 - 3 pm 4 - 6 pm

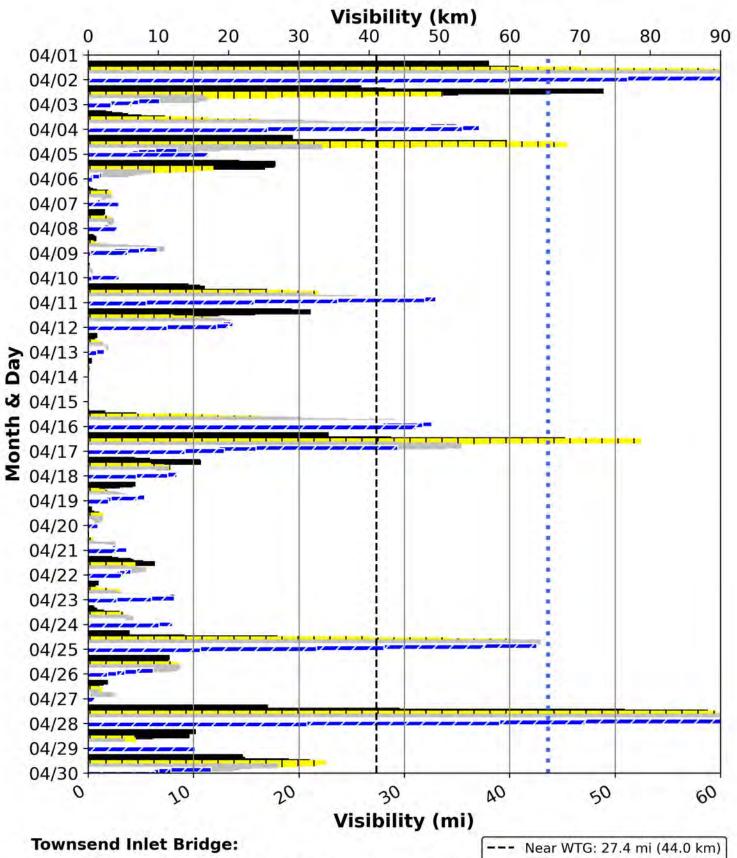
Townsend Inlet Bridge (SIC02) Hourly Visibility During Mar 2019



daylight hours data, 30.1% of the month some of the proposed WTGs would have been visible, and 69.9% of the month none of the proposed WTGs would have been visible.

10 am - 12 pm 1 - 5 pm 6 - 8 pm

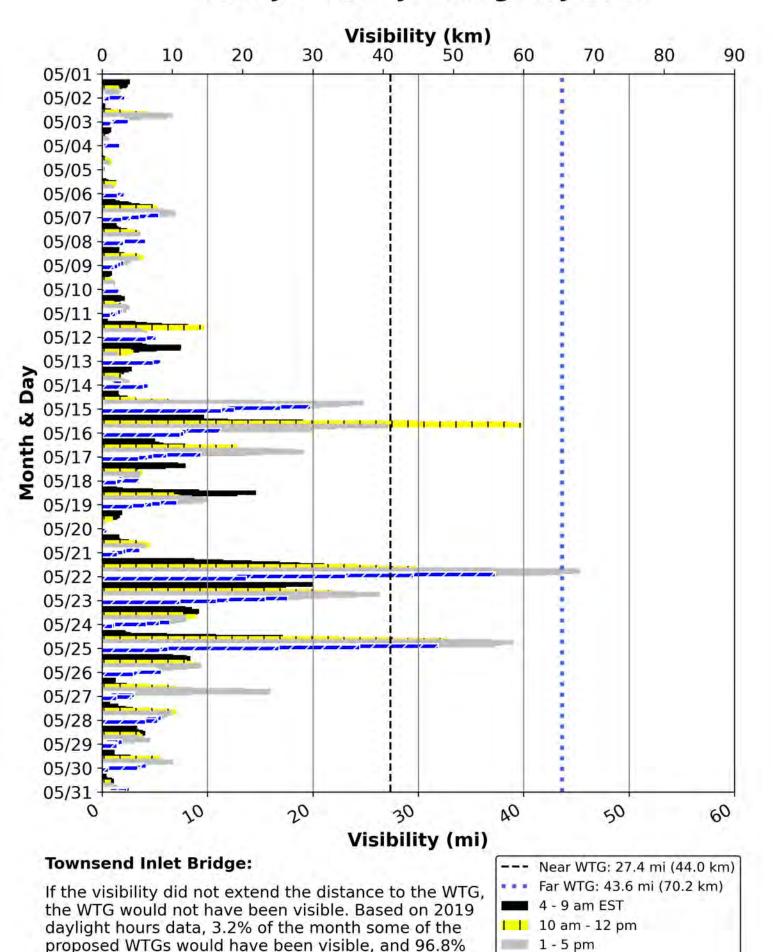
Townsend Inlet Bridge (SIC02) Hourly Visibility During Apr 2019



If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 14.1% of the month some of the proposed WTGs would have been visible, and 85.9% of the month none of the proposed WTGs would have been visible.

Near WTG: 27.4 mi (44.0 km)
Far WTG: 43.6 mi (70.2 km)
4 - 9 am EST
10 am - 12 pm
1 - 4 pm
5 - 9 pm

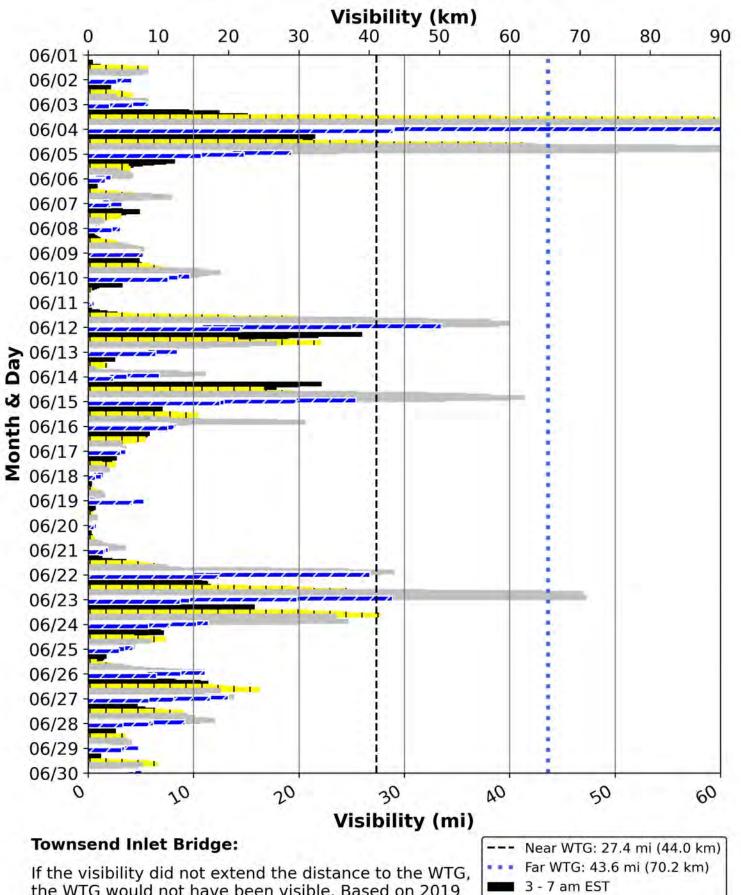
Townsend Inlet Bridge (SIC02) Hourly Visibility During May 2019



6 - 10 pm

of the month none of the proposed WTGs would have

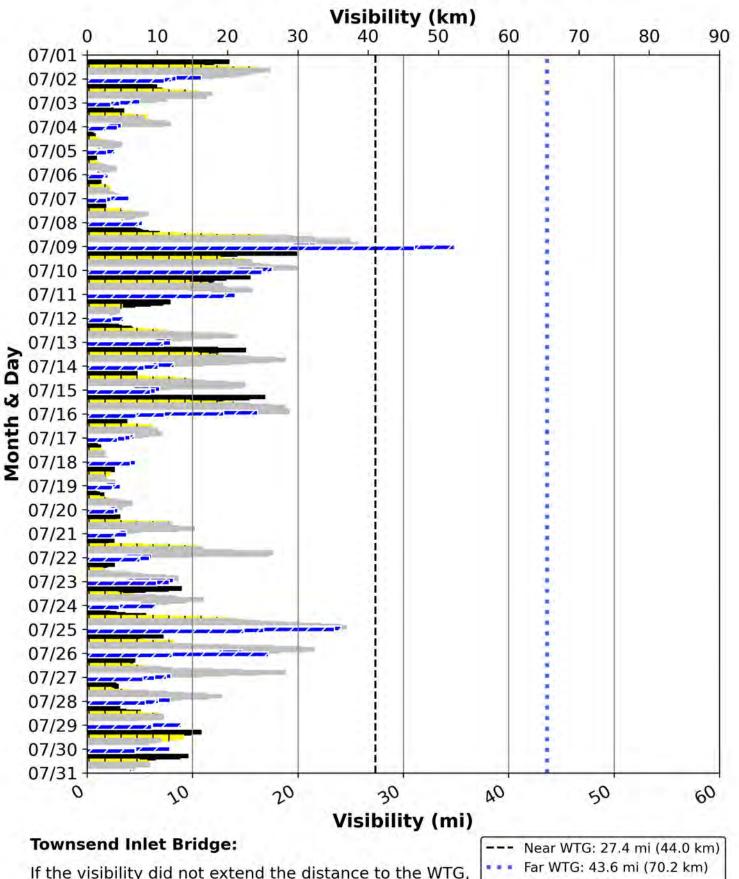
Townsend Inlet Bridge (SIC02) Hourly Visibility During Jun 2019



the WTG would not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 8.3% of the month some of the proposed WTGs would have been visible, and 91.7% of the month none of the proposed WTGs would have been visible.

Far WTG: 43.6 mi (70.2 km)
3 - 7 am EST
8 - 11 am
12 - 6 pm
7 - 10 pm

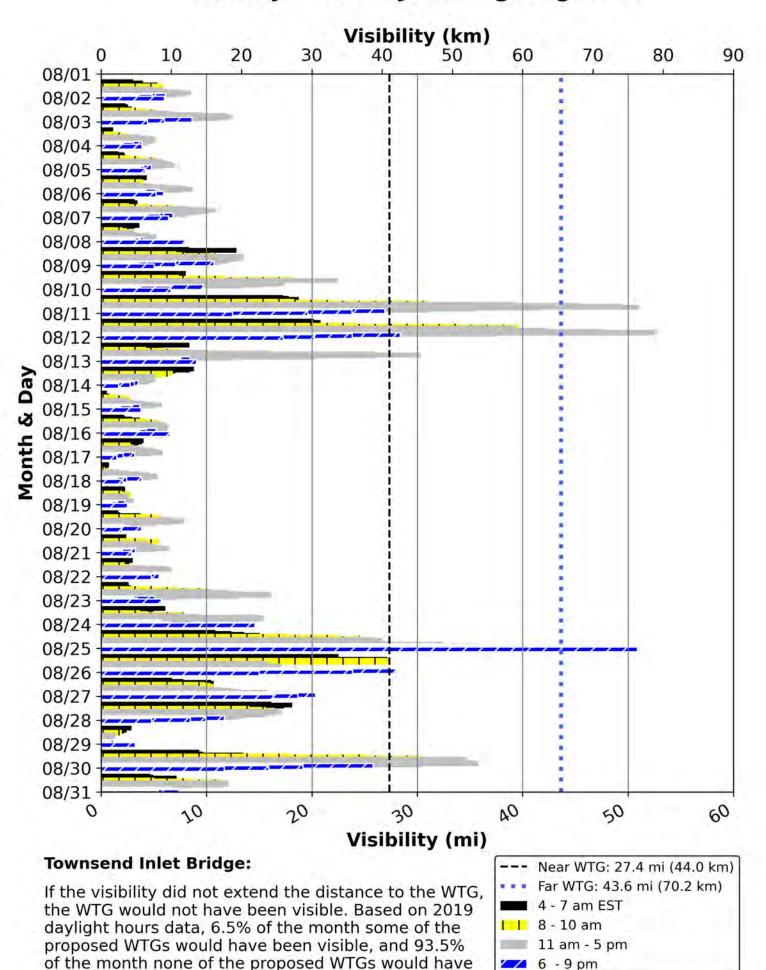
Townsend Inlet Bridge (SIC02) Hourly Visibility During Jul 2019



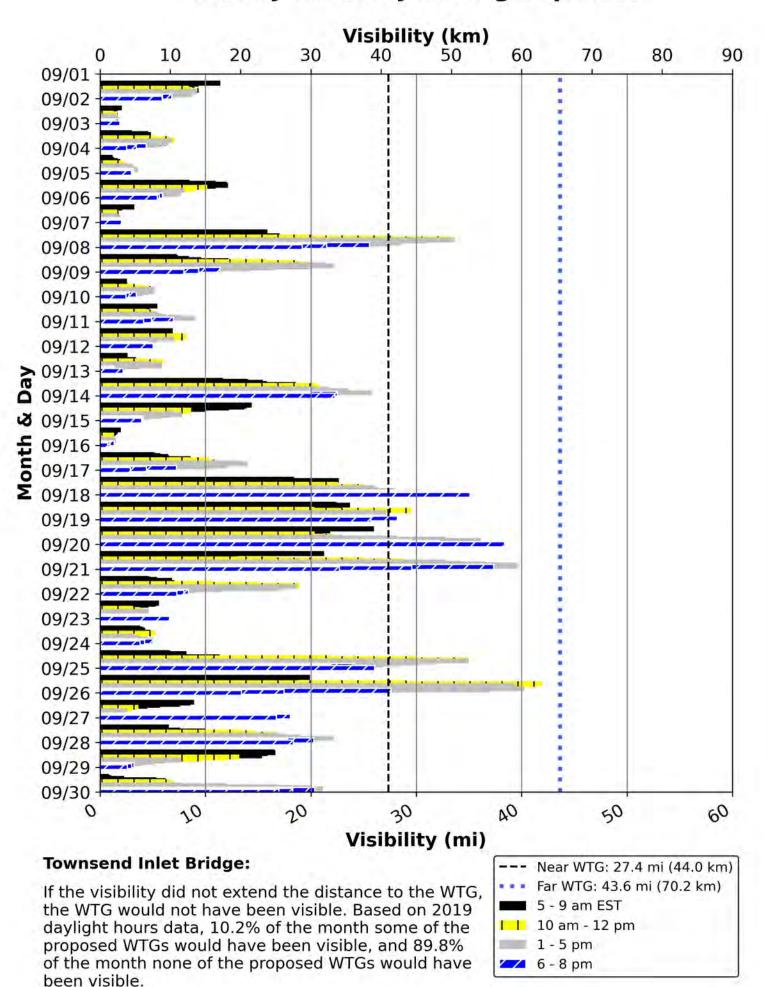
If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 0.3% of the month some of the proposed WTGs would have been visible, and 99.7% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 27.4 mi (44.0 km)
--- Far WTG: 43.6 mi (70.2 km)
3 - 7 am EST
--- 8 - 10 am
--- 11 am - 6 pm
7 - 10 pm

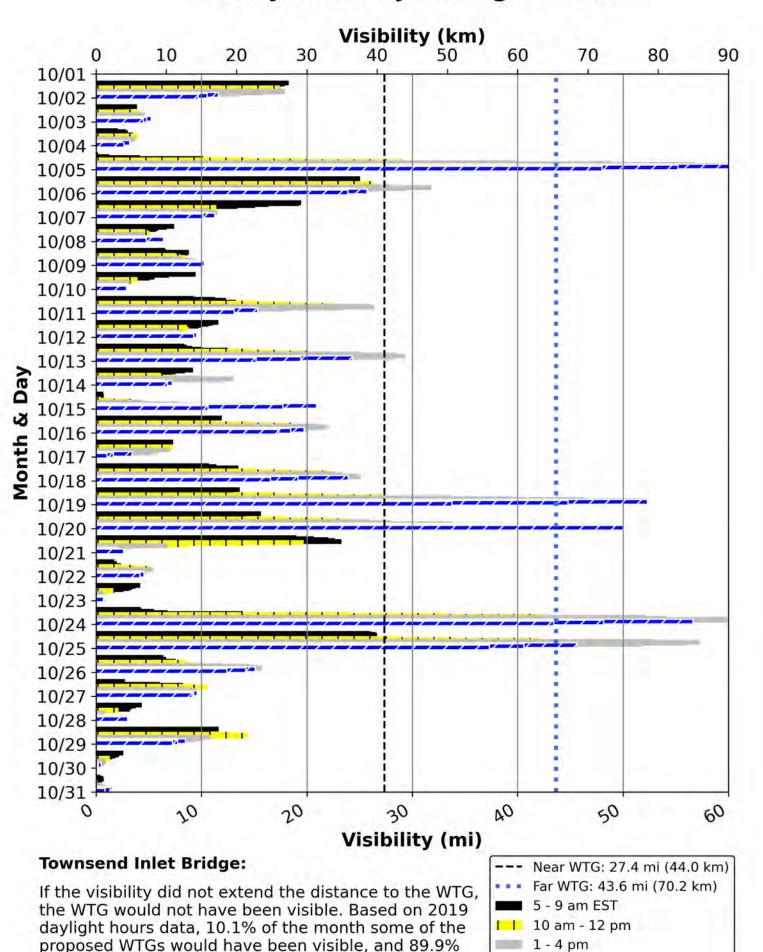
Townsend Inlet Bridge (SIC02) Hourly Visibility During Aug 2019



Townsend Inlet Bridge (SIC02) Hourly Visibility During Sep 2019



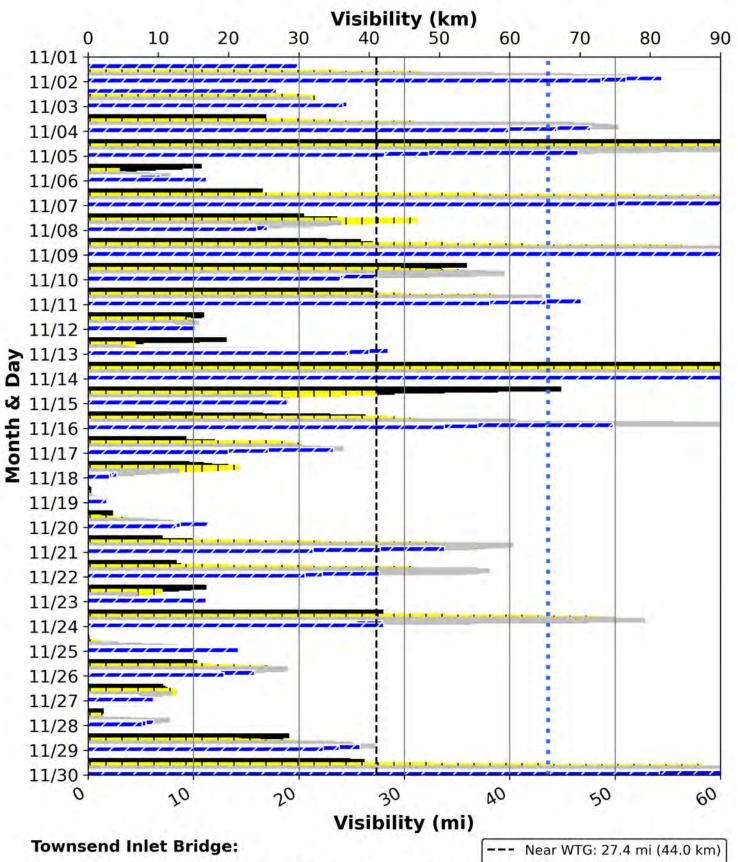
Townsend Inlet Bridge (SIC02) Hourly Visibility During Oct 2019



5 - 7 pm

of the month none of the proposed WTGs would have

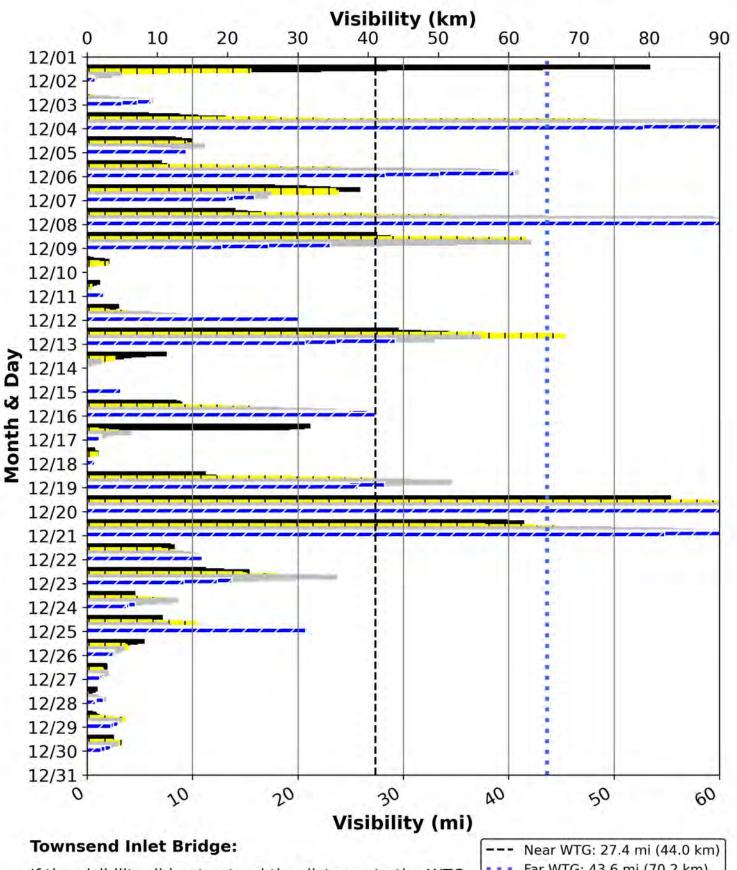
Townsend Inlet Bridge (SIC02) Hourly Visibility During Nov 2019



If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 34.8% of the month some of the proposed WTGs would have been visible, and 65.2% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 27.4 mi (44.0 km)
Far WTG: 43.6 mi (70.2 km)
5 - 8 am EST
9 - 11 am
12 - 3 pm
4 - 6 pm

Townsend Inlet Bridge (SIC02) Hourly Visibility During Dec 2019



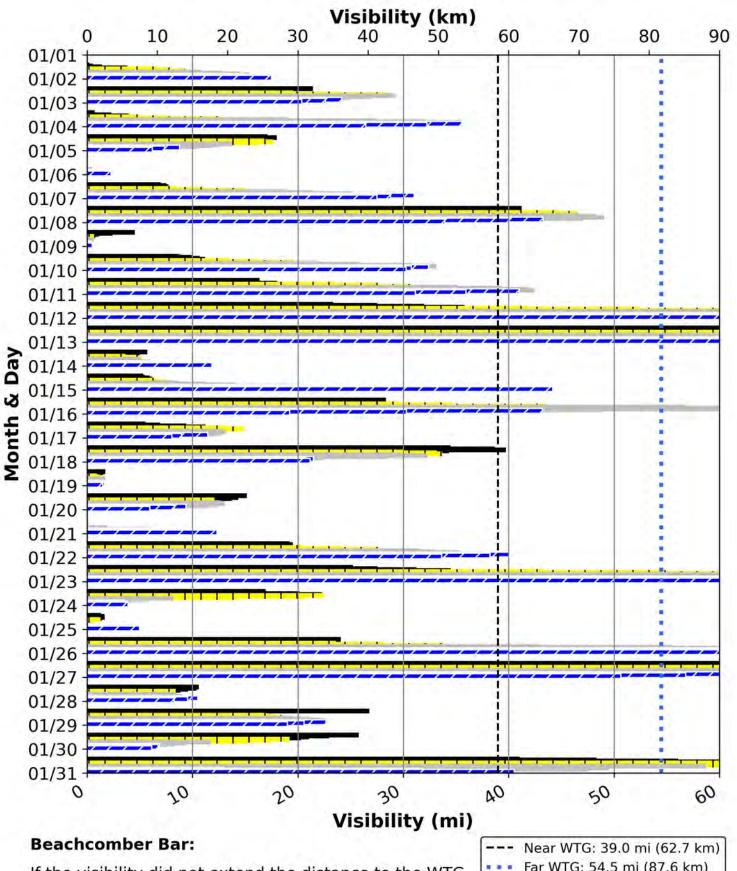
If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 18.4% of the month some of the proposed WTGs would have been visible, and 81.6% of the month none of the proposed WTGs would have been visible.

Near WTG: 27.4 mi (44.0 km)
Far WTG: 43.6 mi (70.2 km)
5 - 8 am EST
9 - 11 am
12 - 3 pm
4 - 6 pm

SPB01

SEASIDE PARK BEACH

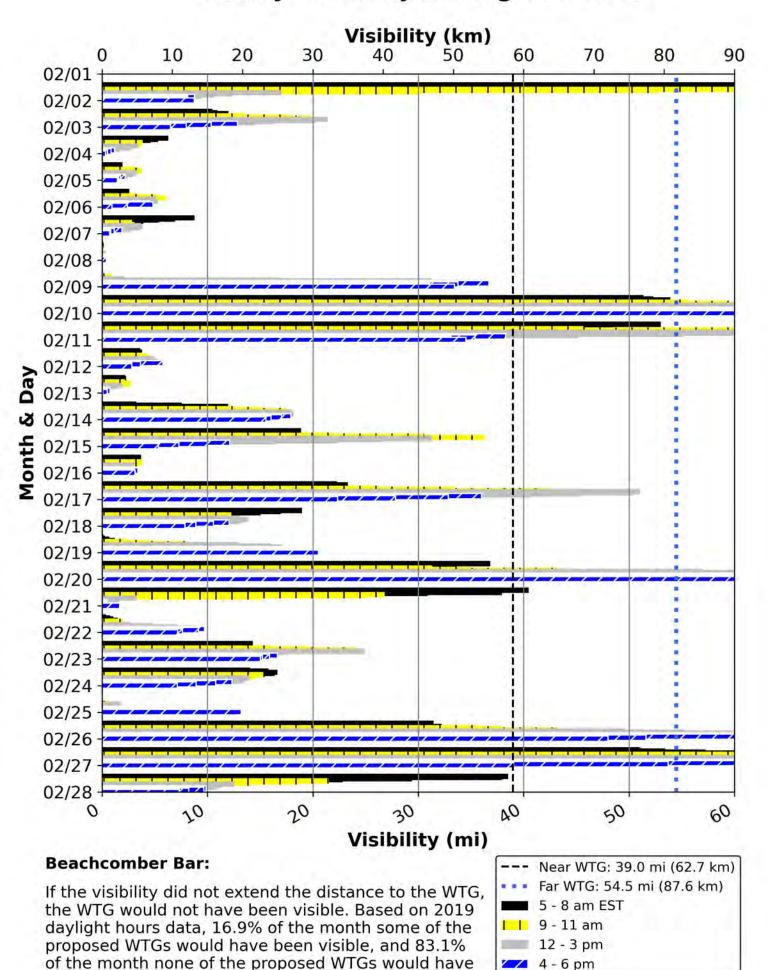
Beachcomber Bar (SPB01) Hourly Visibility During Jan 2019



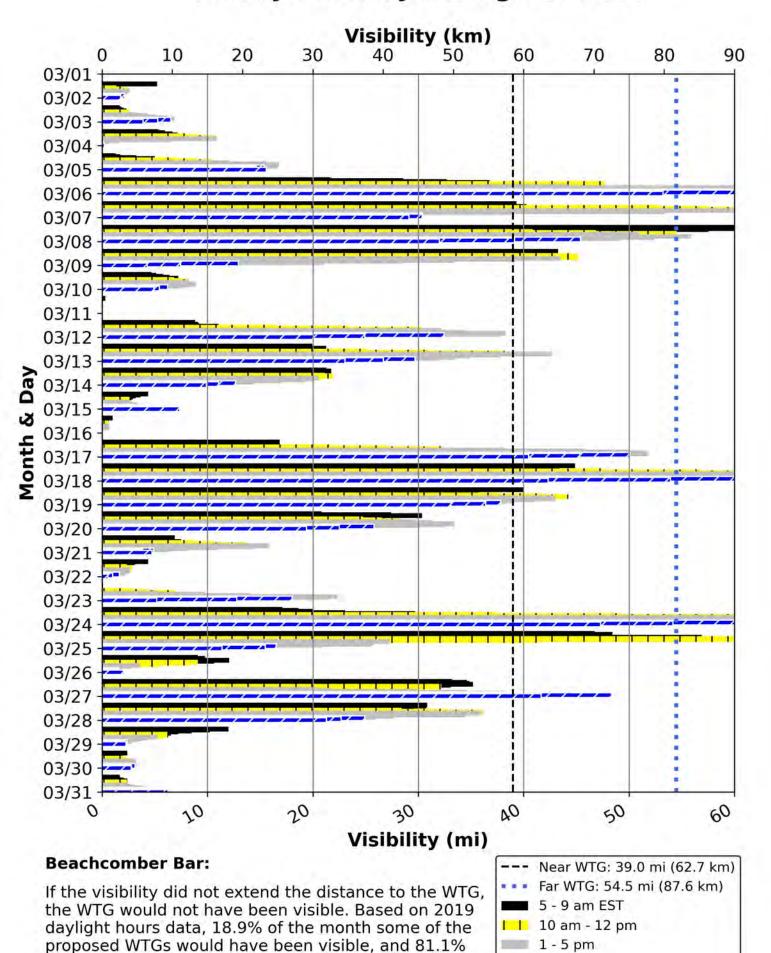
If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 24.4% of the month some of the proposed WTGs would have been visible, and 75.6% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 39.0 mi (62.7 km)
Far WTG: 54.5 mi (87.6 km)
5 - 8 am EST
9 - 11 am
12 - 3 pm
4 - 6 pm

Beachcomber Bar (SPB01) Hourly Visibility During Feb 2019



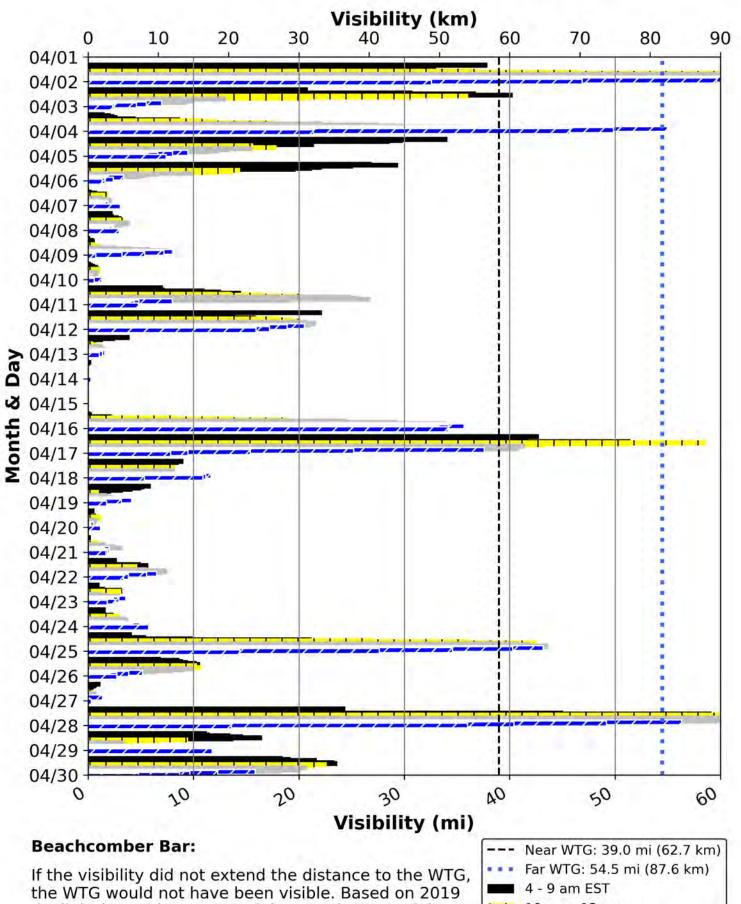
Beachcomber Bar (SPB01) Hourly Visibility During Mar 2019



✓ 6 - 8 pm

of the month none of the proposed WTGs would have

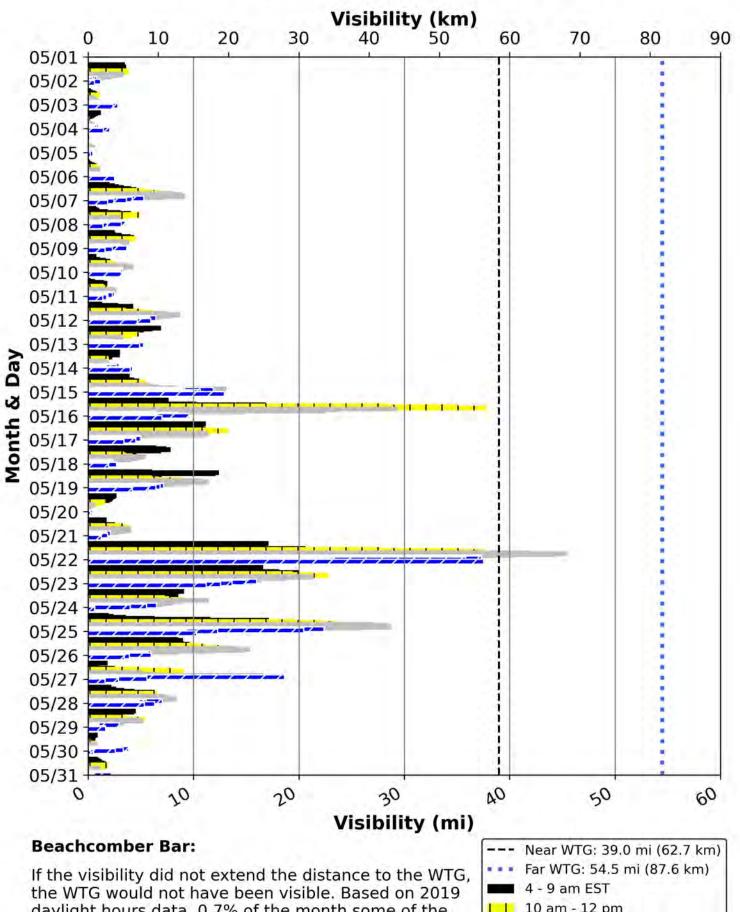
Beachcomber Bar (SPB01) Hourly Visibility During Apr 2019



If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 8.3% of the month some of the proposed WTGs would have been visible, and 91.7% of the month none of the proposed WTGs would have been visible.

Far WTG: 54.5 mi (87.6 km)
4 - 9 am EST
10 am - 12 pm
1 - 4 pm
5 - 9 pm

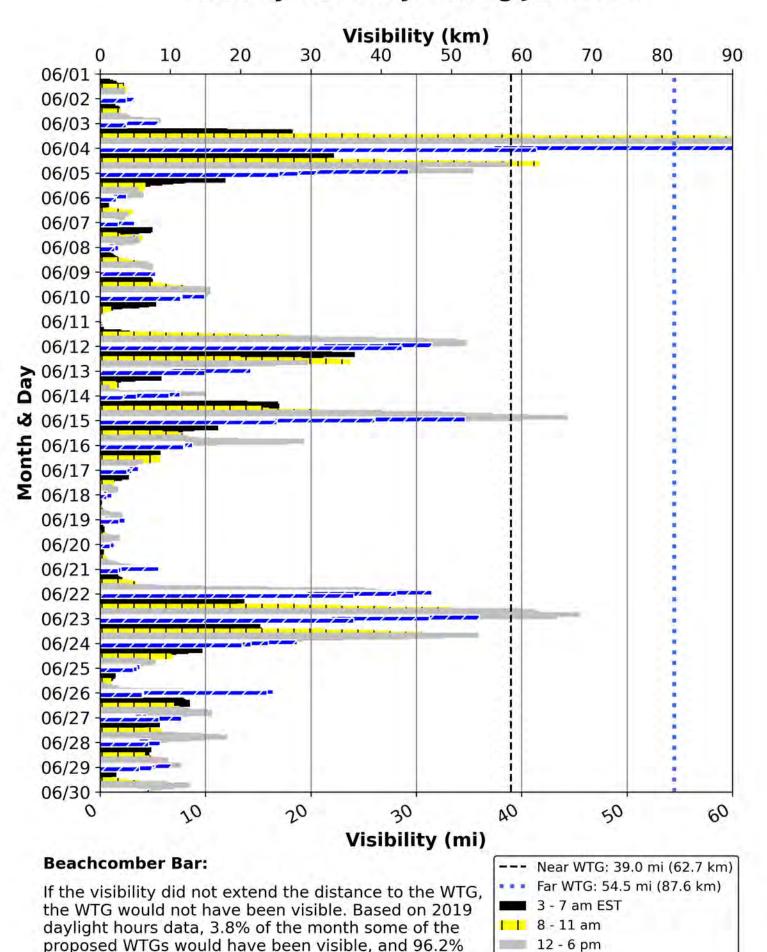
Beachcomber Bar (SPB01) Hourly Visibility During May 2019



daylight hours data, 0.7% of the month some of the proposed WTGs would have been visible, and 99.3% of the month none of the proposed WTGs would have been visible.

10 am - 12 pm 1 - 5 pm 6 - 10 pm

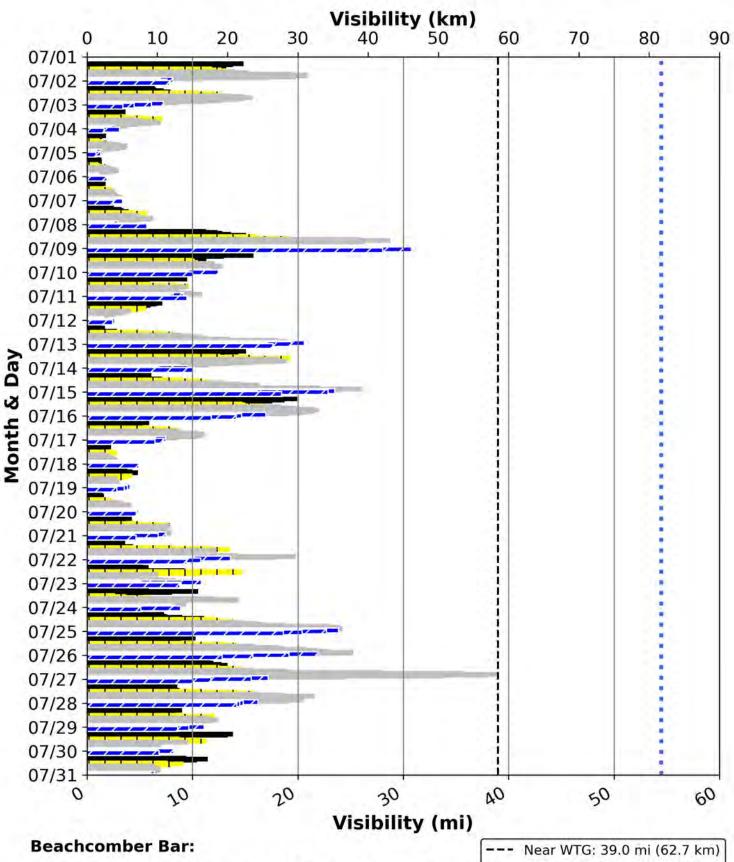
Beachcomber Bar (SPB01) Hourly Visibility During Jun 2019



7 - 10 pm

of the month none of the proposed WTGs would have

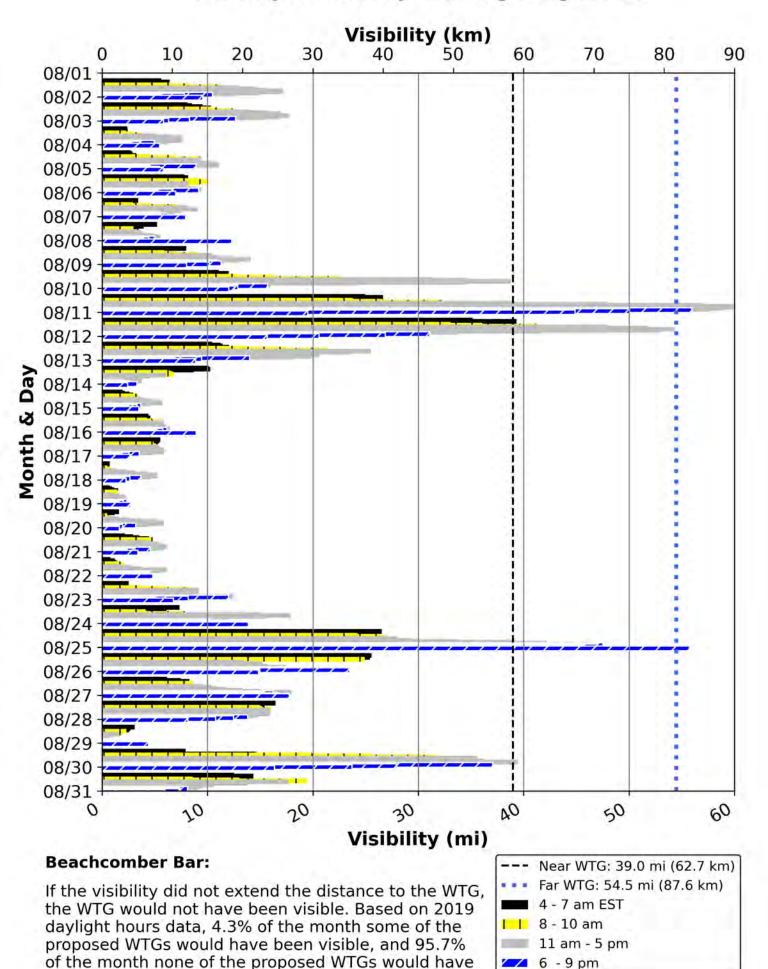
Beachcomber Bar (SPB01) Hourly Visibility During Jul 2019



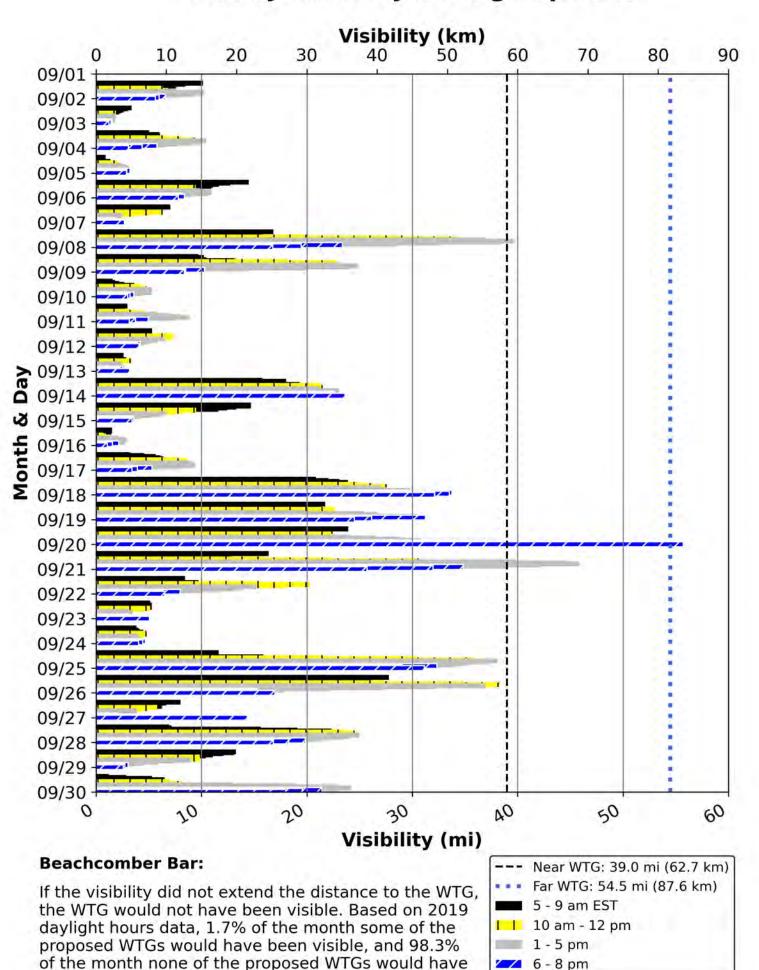
If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 0.2% of the month some of the proposed WTGs would have been visible, and 99.8% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 39.0 mi (62.7 km)
--- Far WTG: 54.5 mi (87.6 km)
3 - 7 am EST
1 8 - 10 am
11 am - 6 pm
7 - 10 pm

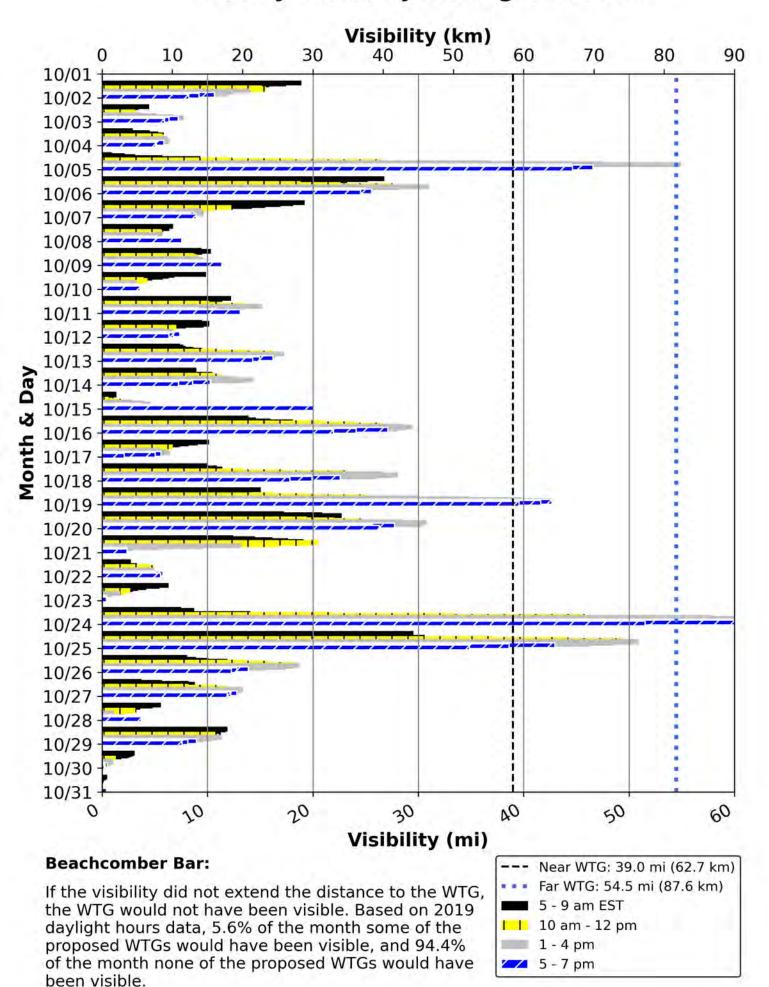
Beachcomber Bar (SPB01) Hourly Visibility During Aug 2019



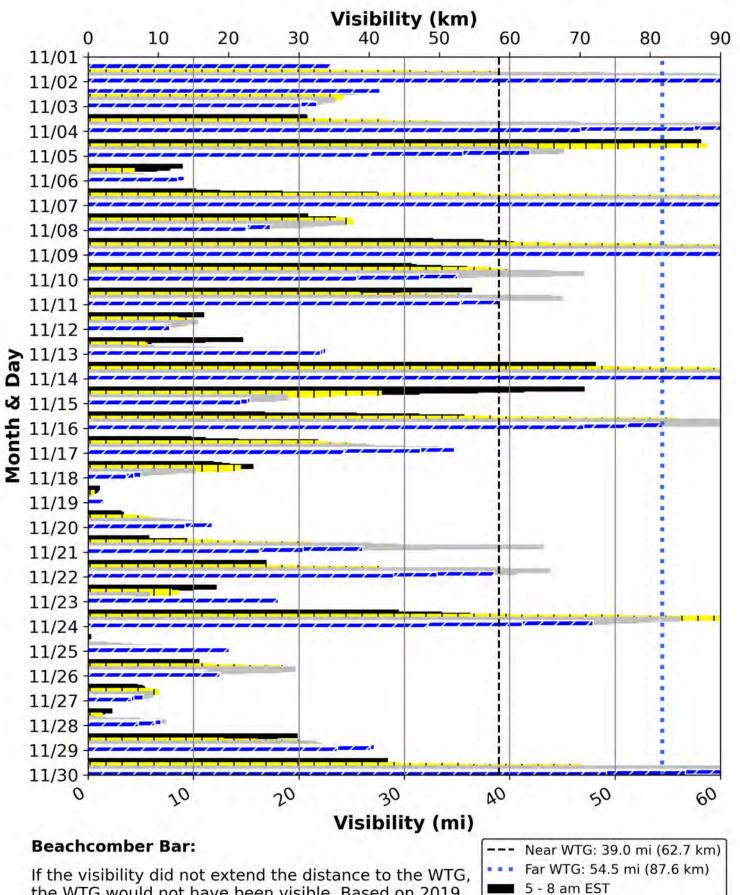
Beachcomber Bar (SPB01) Hourly Visibility During Sep 2019



Beachcomber Bar (SPB01) Hourly Visibility During Oct 2019



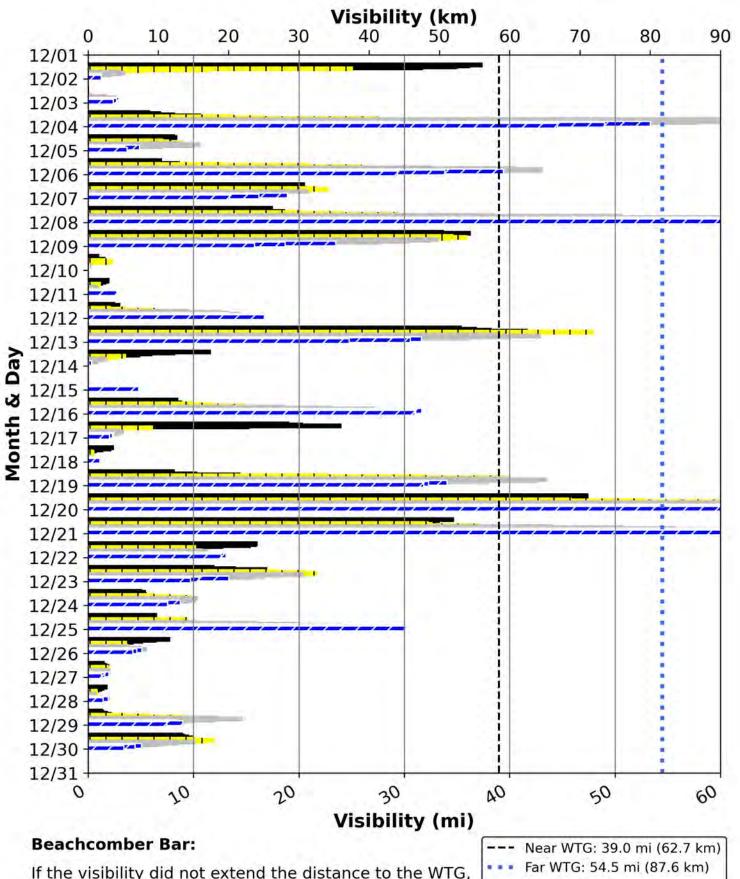
Beachcomber Bar (SPB01) Hourly Visibility During Nov 2019



If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 25.8% of the month some of the proposed WTGs would have been visible, and 74.2% of the month none of the proposed WTGs would have been visible.

--- Near WTG: 39.0 mi (62.7 km)
--- Far WTG: 54.5 mi (87.6 km)
5 - 8 am EST
1 9 - 11 am
12 - 3 pm
4 - 6 pm

Beachcomber Bar (SPB01) Hourly Visibility During Dec 2019



If the visibility did not extend the distance to the WTG, the WTG would not have been visible. Based on 2019 daylight hours data, 10.8% of the month some of the proposed WTGs would have been visible, and 89.2% of the month none of the proposed WTGs would have been visible.

Near WTG: 39.0 mi (62.7 km)
Far WTG: 54.5 mi (87.6 km)
5 - 8 am EST
9 - 11 am
12 - 3 pm
4 - 6 pm