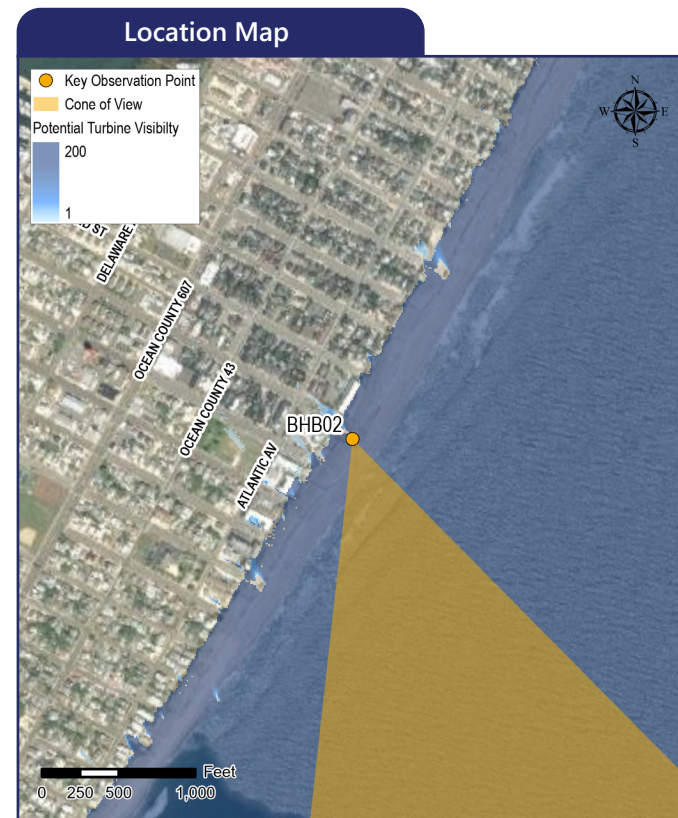
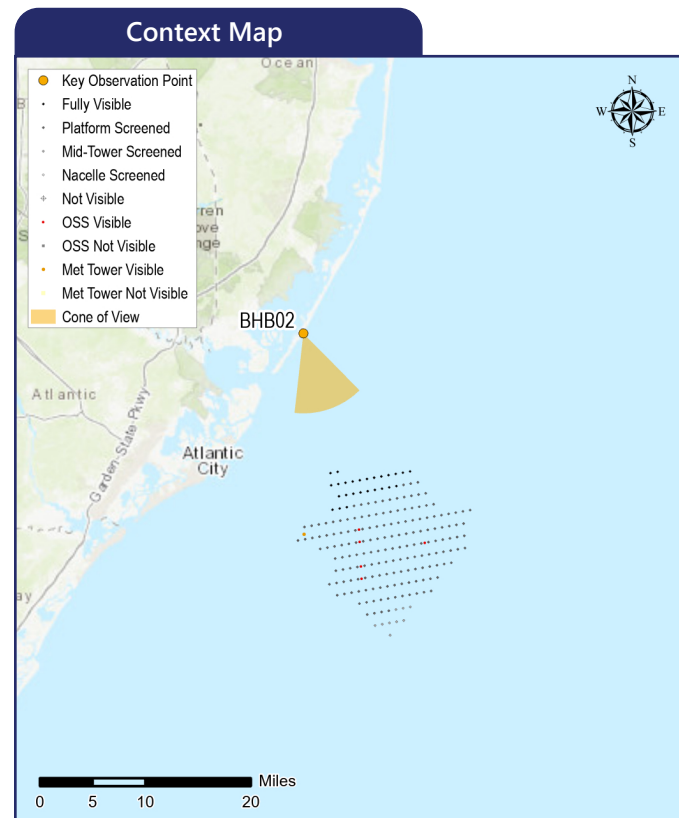


BHB02 Centre Street, Beach Haven

Beach Haven Borough, Ocean County, New Jersey



The image above is a +/- 124° panorama photograph from the Long Beach Island, panning clockwise from east (left) to southwest (right). The yellow rectangle within the photo represents the extent of the photosimulation photo(s).



Simulation Information

Coordinates:	39.56169°N, 74.23571°W
Character Area:	Residential Beachfront, Seascape (SCA)
User Group:	Residents/Tourists
Direction of View:	South-southeast
Distance to Nearest Visible Turbine:	13.49 miles
Visually Sensitive Resource:	Beach Haven Borough Public Beach

Environmental Information

Date Taken:	03/02/2022
Time:	12:03 PM
Temperature:	54°F
Humidity:	40%
Visibility:	10 miles
Wind Direction:	West-northwest
Wind Speed:	17 mph
Conditions Observed:	Fair

Photograph Information

Camera:	Canon EOS 5D Mark IV
Resolution:	30.4 Megapixels
Focal Length:	50mm
Camera Height:	27.01 feet AMSL

Notes

Printed at 100%, the photosimulations are 15 inches wide by 10 inches high. At this size, the photosimulation(s) should be viewed from a distance of 21 inches.

Simulated Photograph(s)

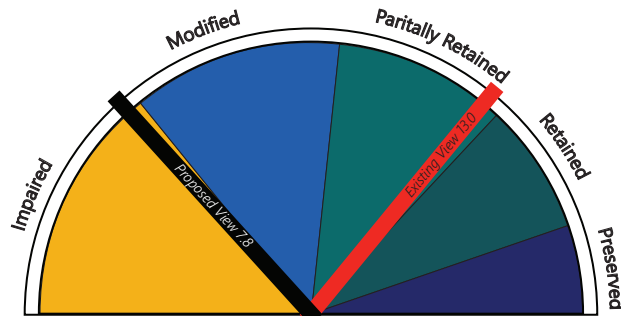


Beach Haven and Holgate Variable Conditions Assessment

Visual Impact Rating

Impact Rating Summary

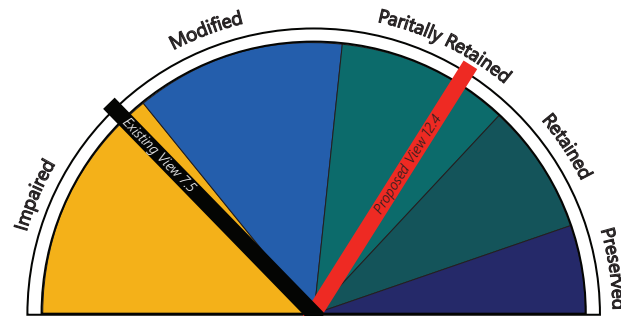
BHB02



-5.3. Significant

Impact Rating Summary

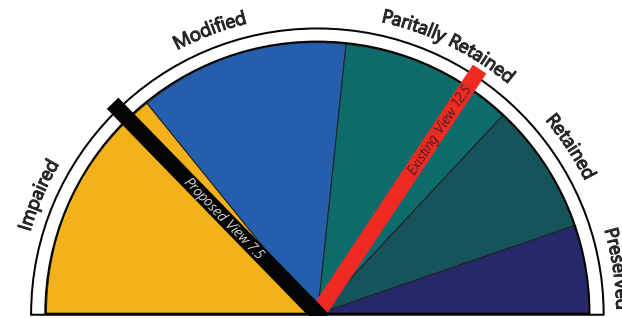
BHB03



-4.8. Significant

Impact Rating Summary

LBT04



-5.0. Significant

Compatibility and Contrast Rating Average

Centre Street Beach Haven			
Resource	Compatibility	Scale	Spatial Dominance
Water Resources	3	3	3
Landform	1.8	1.5	1.8
Vegetation	1.3	1.0	1.0
Land Use	2.8	2.5	2.3
User Activity	2.8	2.5	2.5

1 – Compatible
 2 – Somewhat Compatible
 3 – Not Compatible
 1 – Minimal
 2 – Moderate
 3 – Severe
 1 – Subordinate
 2 – Co-Dominant
 3 – Dominant

Holyoke Avenue			
Resource	Compatibility	Scale	Spatial Dominance
Water Resources	3	3	3
Landform	1.5	1.3	1.8
Vegetation	1.0	0.8	1.0
Land Use	2.3	2.3	2.3
User Activity	2.3	2.3	2.5

1 – Compatible
 2 – Somewhat Compatible
 3 – Not Compatible
 1 – Minimal
 2 – Moderate
 3 – Severe
 1 – Subordinate
 2 – Co-Dominant
 3 – Dominant

Wildlife Refuge on South Long Beach Boulevard in Holgate			
Resource	Compatibility	Scale	Spatial Dominance
Water Resources	2.9	2.9	2.9
Landform	1.5	1.5	1.8
Vegetation	0.3	0.3	0.3
Land Use	2.5	2.5	2.3
User Activity	2.8	2.5	2.3

1 – Compatible
 2 – Somewhat Compatible
 3 – Not Compatible
 1 – Minimal
 2 – Moderate
 3 – Severe
 1 – Subordinate
 2 – Co-Dominant
 3 – Dominant

KOP Summary

These views were provided at the request of a Long Beach Island citizens group to illustrate how the WTG may appear during different times of day. The location of these views is very similar to the view from Beach Haven Historic District (BHB01). As requested, these photosimulation illustrate the project during sunrise or morning, midday, and sunset or afternoon. The rating panel results for all nine of these variable conditions photosimulations were very similar. All views were considered to be partially retained, with scores ranging from 8.8 to 15.0. Reductions in score ranged from -4.8 to -5.3 considering the rating panel averages, resulting in modified and impaired views with the Projects in place. It should be noted that the rating panel members were asked to independently determine which time of day presented the highest contrast conditions, and all four members agreed that the backlighting of the turbines against a light morning or noon sky presented the most conservative visibility scenario. All of the views considered from these locations received a VTL of 5, with the exception of BHB02, which received a VTL of 6. The horizon occupation of the Projects from these location ranged from 44.5 degrees to 46.6 degrees which is between 24 percent and 35 percent of the available ocean horizon depending on the viewer location. Each of the view context sheets provides specific details regarding the horizon and vertical occupation of the turbines.

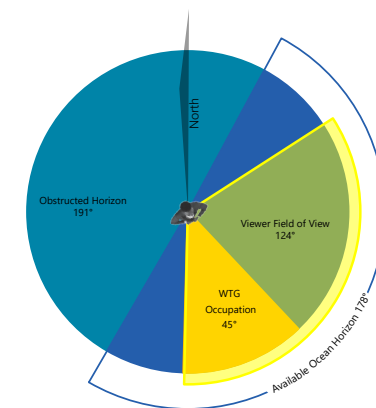
Visual Threshold Level (VTL)

6 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.

5 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 (Sullivan et al., 2013).

5 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 (Sullivan et al., 2013).

General Viewing Parameters



BHB02 Centre Street, Beach Haven

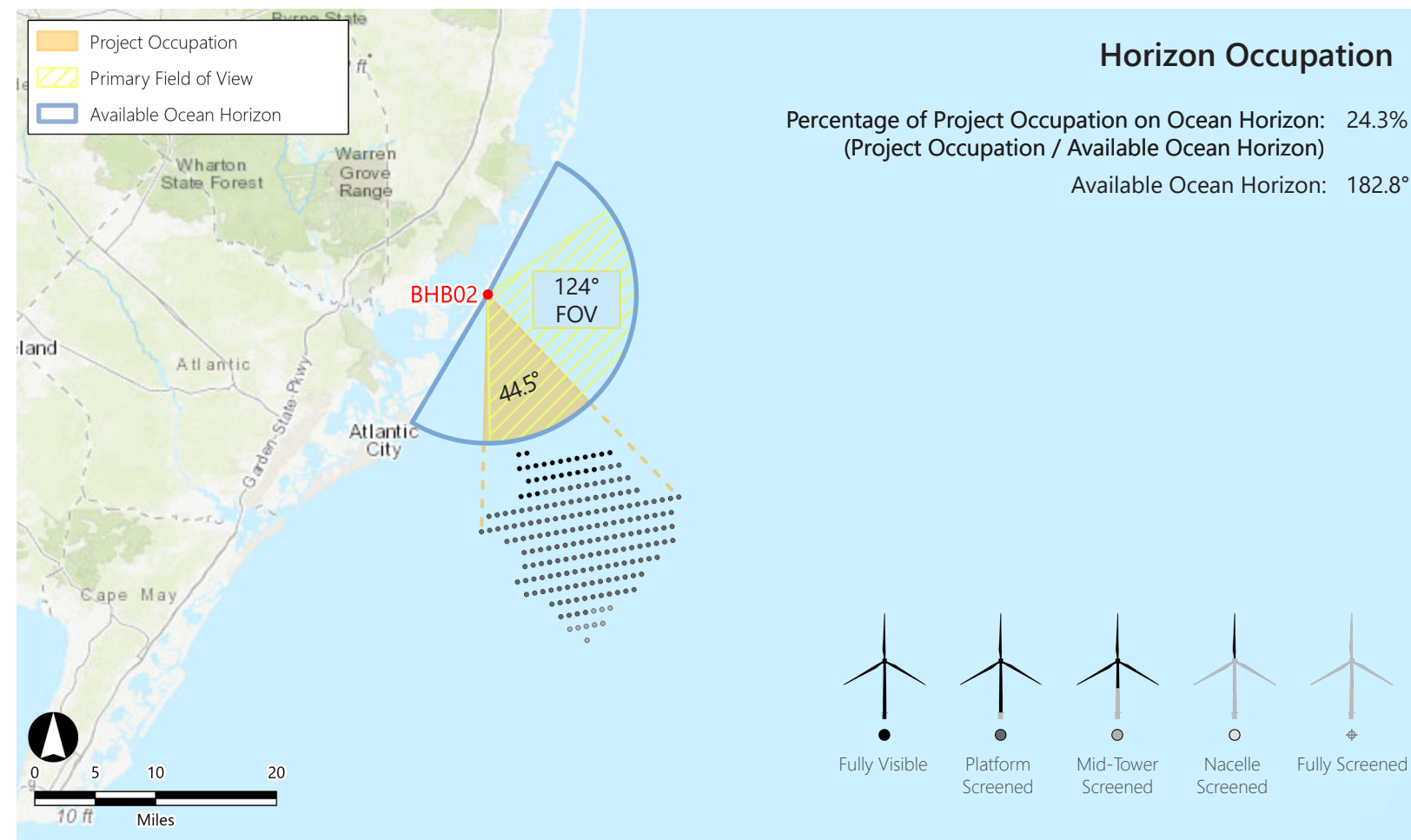
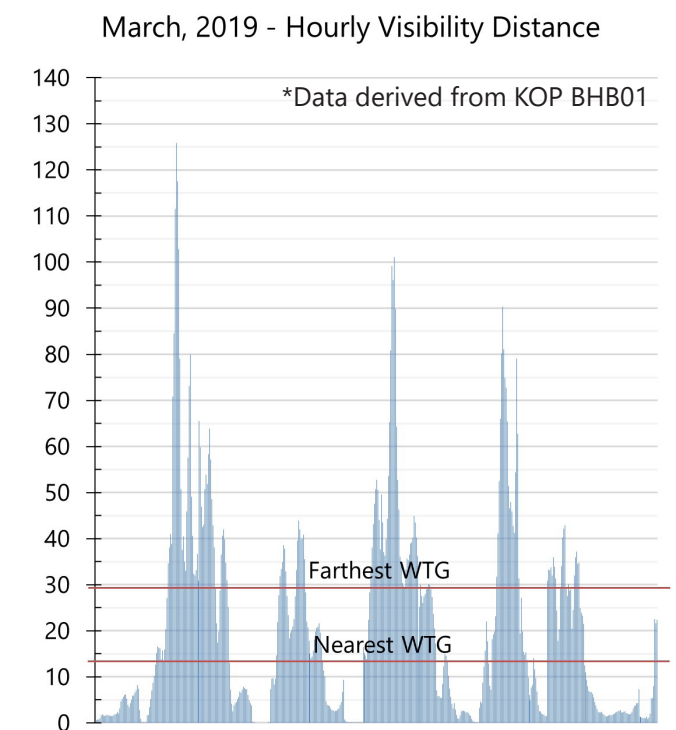
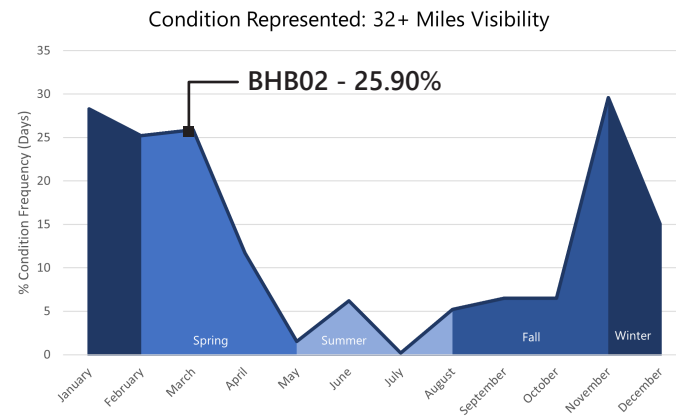
Beach Haven Borough, Ocean County, New Jersey

KOP Information

Primary Field of View: East
 Distance to Closest WTG: 13.49 miles
 Camera Height: 27.01 ft
 User Groups: Residents, Tourists

Atmospheric Perspective

The effect the atmosphere has on the appearance of an object as viewed from a distance.



WTG Color Contrast

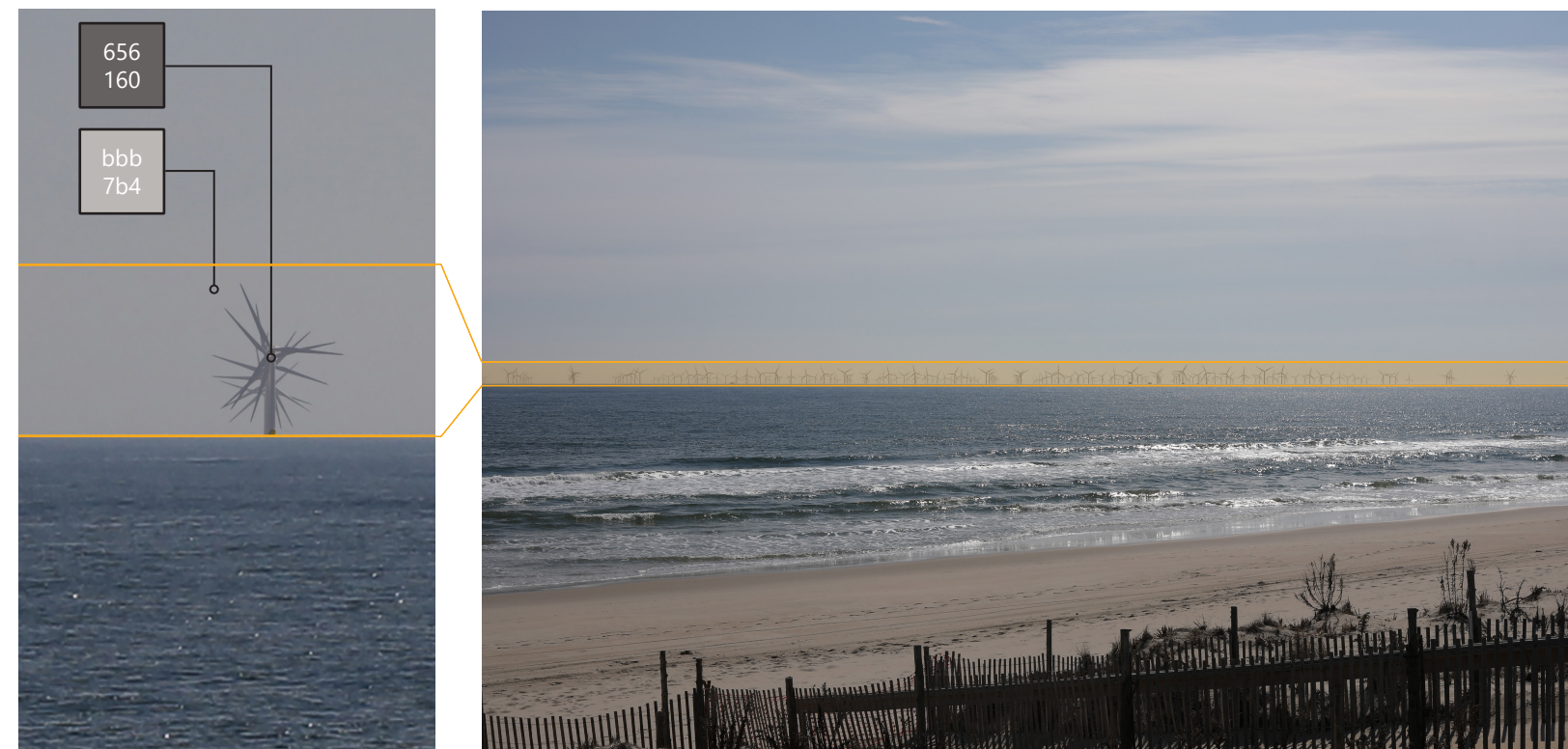
Color Contrast Rating: 3.07

Turbine (Dark Grey) / Background (Light Grey)

Lighting Condition: Side lit
 Season: Spring
 Sky Condition: Fair
 Atmospheric Condition: > 10 Miles

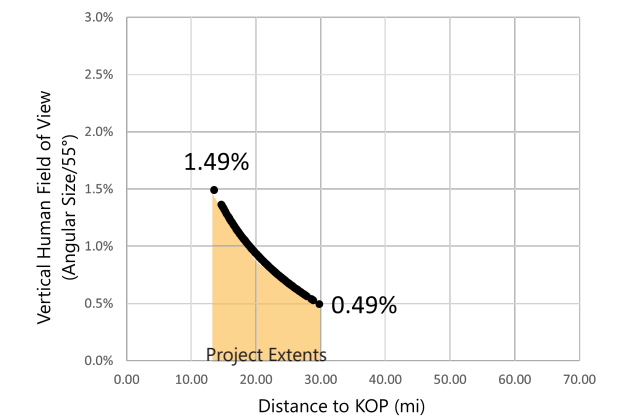
SIMILAR VIEWING PARAMETERS:

KOP BHB01 illustrates the project from 13.5 miles in the back lit condition. This provides an indication of how the turbines may appear from this KOP during morning conditions.



Vertical Occupation

Percentage of Human FOV: 1.49% (0.82° / 55°)
 (Considering the nearest visible turbine)



Existing Conditions (Sunrise)



Printed at 100% the resulting photosimulation size is 15 inches wide by 10 inches high. At this size and focal length, the photosimulation should be viewed from a distance of 21 inches.

This scale is designed to insure the photosimulation images are printed at the intended size.

Photosimulation (Sunrise)



Printed at 100% the resulting photosimulation size is 15 inches wide by 10 inches high. At this size and focal length, the photosimulation should be viewed from a distance of 21 inches.



This scale is designed to insure the photosimulation images are printed at the intended size.

Existing Conditions (Noon)



Printed at 100% the resulting photosimulation size is 15 inches wide by 10 inches high. At this size and focal length, the photosimulation should be viewed from a distance of 21 inches.



This scale is designed to insure the photosimulation images are printed at the intended size.

Photosimulation (Noon)



Atlantic Shores Offshore Wind Project

Outer Continental Shelf - New Jersey

Key Observation Point: BHB02 - Centre Street, Beach Haven
Attachment E: Photosimulations; Page 63 of 159

Printed at 100% the resulting photosimulation size is 15 inches wide by 10 inches high. At this size and focal length, the photosimulation should be viewed from a distance of 21 inches.



This scale is designed to insure the photosimulation images are printed at the intended size.

Existing Conditions (Sunset)



Printed at 100% the resulting photosimulation size is 15 inches wide by 10 inches high. At this size and focal length, the photosimulation should be viewed from a distance of 21 inches.



This scale is designed to insure the photosimulation images are printed at the intended size.

Photosimulation (Sunset)



Printed at 100% the resulting photosimulation size is 15 inches wide by 10 inches high. At this size and focal length, the photosimulation should be viewed from a distance of 21 inches.



This scale is designed to insure the photosimulation images are printed at the intended size.