

KOP 35: Navesink Twin Lights Lighthouse - Top | Season: Winter | Time of Day: Noon

Base Photographic Documentation

2/04/2023
12:11
-73.985851
40.396605
269.817
5.41
86
E

Camera Information

Camera Make & Model:

Canon EOS 5DS R

Camera Sensor Size:

36mm x 24mm

Lens Make & Model:

Sigma F1.4 DG HSM A024

Lens Focal Length:

20mm

Field of View:

65.47° (H) / 46.397° (V)

Sun And Weather Information

Sun Azimuth: 181 Sun Elevation: 33 Top-Right Lit Lighting Angle (On Turbines): Partly Cloudy Weather Conditions: Maximum Visibility (NM): 24.27 Temperature (°F): 15 Temperature (°C): -9.44 Humidity (%): 28

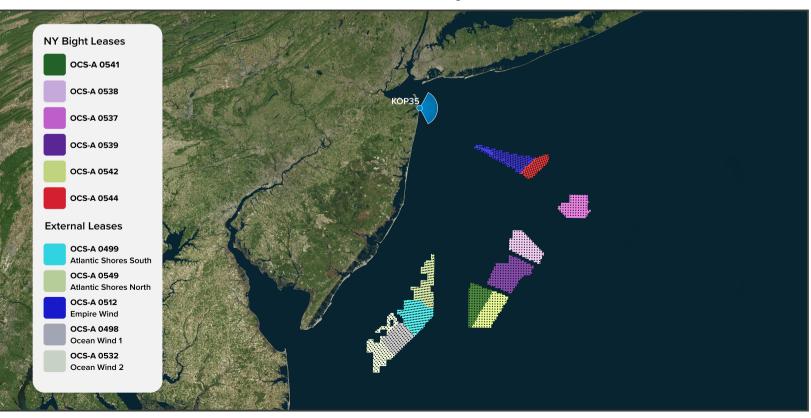
Viewing Instructions

11 x 17 inch Printed Display: Distance is 19.7 inches (500mm)
On-Screen Display: Distance is 19.7 inches (500mm)

Image Preview



Context Map





KOP 35: Navesink Twin Lights Lighthouse - Top | Season: Winter | Time of Day: Noon

NY Bight Turbine Information - 1312ft (399.9m)

Lease Area	Distance to	Tui	bines V	isible
	Nearest Turbine in Miles (km)	Blade Tip	Hub	Mid Tower
Total	-	301	99	0
OCS-A 0544	44.06 (70.91)	110	99	0
OCS-A 0537	64.89 (104.43)	0	0	0
OCS-A 0538	55.08 (88.64)	156	0	0
OCS-A 0539	62.20 (100.10)	35	0	0
OCS-A 0541	66.20 (106.54)	0	0	0
OCS-A 0542	73.17 (117.75)	0	0	0

Blade tip counts are a summation of only blade tips visible, only hubs visible, and mid-towers visible. Hub counts are a summation of only hubs visible and mid towers visible.

Turbine Visibility	Turbine Visibility & Percentage
Amount of Nearest Turbine Hidden in ft (m)	122.35 (37.3)
Percent of Nearest Turbine Hidden (%)	9.3%
Amount of Nearest Turbine Visible in ft (m)	1189.7 (362.6)
Percent of Nearest Turbine Visible (%)	90.7%

NY Bight Turbine Specifications

Turbine Components	Measurements ft (m)
Rotor Diameter in ft (m)	1212 (369.4)
Total Height to Tip of Blade in ft (m)	1312 (399.9)
Hub Height in ft (m)	706 (215.2)
Support Structure Height in ft (m)	25 (7.6)
Service Platform in ft (m)	100 (30.5) x 200 (61.0) Steel Platform above MWS
Total Number of Turbines	1481

NY Bight Turbine Information - 853ft (260m)

Lease Area	Distance to	Tui	bines V	isible
	Nearest Turbine in Miles (km)	Blade Tip	Hub	Mid Tower
Total	-	115	0	0
OCS-A 0544	44.06 (70.91)	110	0	0
OCS-A 0537	64.89 (104.43)	0	0	0
OCS-A 0538	55.08 (88.64)	5	0	0
OCS-A 0539	62.20 (100.10)	0	0	0
OCS-A 0541	66.20 (106.54)	0	0	0
OCS-A 0542	73.17 (117.75)	0	0	0

Blade tip counts are a summation of only blade tips visible, only hubs visible, and mid-towers visible. Hub counts are a summation of only hubs visible and mid towers visible.

Turbine Visibility	Turbine Visibility & Percentage
Amount of Nearest Turbine Hidden in ft (m)	122.4 (37.3)
Percent of Nearest Turbine Hidden (%)	14.3%
Amount of Nearest Turbine Visible in ft (m)	730.7 (222.7)
Percent of Nearest Turbine Visible (%)	85.7%

NY Bight Turbine Specifications

Turbine Components	Measurements ft (m)
Rotor Diameter in ft (m)	722 (220.1)
Total Height to Tip of Blade in ft (m)	853 (260)
Hub Height in ft (m)	361 (110)
Support Structure Height in ft (m)	25 (7.6)
Service Platform in ft (m)	100 (30.5) x 200 (61.0) Steel Platform above MWS
Total Number of Turbines	1481

External Turbine Information

Lease Area	Distance to	Turbines		Visible	
	Nearest Turbine in Miles (km)	Blade Tip	Hub	Mid Tower	
Total	-	222	174	N/A	
OCS-A 0499	N/A	0	0	N/A	
OCS-A 0549	50.0 (80.5)	48	0	N/A	
OCS-A 0512	22.4 (36.1)	174	174	N/A	
OCS-A 0498	N/A	0	0	N/A	
OCS-A 0532	N/A	0	0	N/A	

Cumulative Turbine Visibility (Total WTG Count for NY Bight + External Leases)

1312ft (399.9m)			853ft (260m)		m)
Blade Tip	Hub	Mid Tower	r Blade Tip Hub Mid Tov		
523	273	0	337	174	0

The cumulative mid tower counts for both turbine heights are conservative values due to having no mid tower data for the external leases.

External Turbine Specifications

Lease Area	Rotor Diameter in ft (m)	Total Height to Tip of Blade in ft (m)	Hub Height in ft (m)	Support Structure Height in ft (m)
OCS-A 0499	918.6 (279.9)	1049 (319.7)	577 (176)	25 (7.6)
OCS-A 0549	918.6 (279.9)	1049 (319.7)	577 (176)	25 (7.6)
OCS-A 0512	853 (259.9)	951 (290)	525 (160)	25 (7.6)
OCS-A 0498	788 (240.1)	906 (276)	512 (156)	25 (7.6)
OCS-A 0532	788 (240.1)	906 (276)	512 (156)	25 (7.6)



KOP 35, Navesink Twin Lights Lighthouse - Top, Noon, Heading 86° - Existing View

For on-screen display:
Scale bar to be 4 inches wide
Viewing distance 19.7 inches

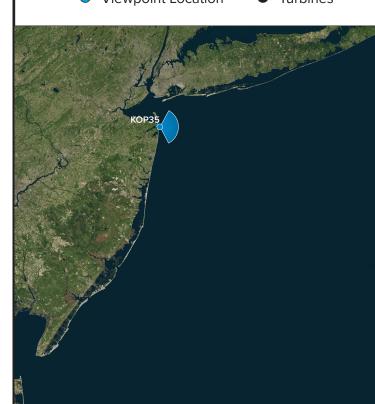


New York Bight

Navesink Twin Lights Lighthouse - Top

Camera Heading 86°

Viewpoint LocationTurbines



Latitude: 40.396605
Longitude: -73.985851
Elevation of Viewpoint Position: 269.817
Height of Camera Above Ground: 5.41
Date of Photography: 2/04/2023 at 12:11
Horizontal Field of View: 124°
Vertical Field of View: 55°

CORRECT VIEWING OF TRUEVIEWTM PHOTO SIMULATIONS

NOTES:
Viewpoint locations have been precision surveyed by

Viewpoint locations have been precision surveyed by New York City Land Surveyors PC 63 Montgomery Avenue Staten Island NY 10301

Heights are above mean sea level.

Structure design and placement are subject to final engineering.

No part of this photo simulation shall be altered in any way.

Photo Simulation Created Using TrueViewTM Technology (Patent No.: US 8,184,906 B2)

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KOP 35, Navesink Twin Lights Lighthouse - Top, Noon, Heading 86° - Proposed View - NY Bight Leases (853ft) - Predicted Visibility

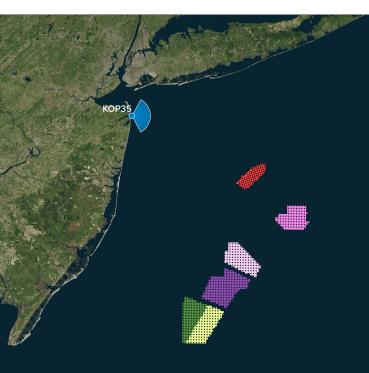
For on-screen display:
Scale bar to be 4 inches wide
Viewing distance 19.7 inches



New York Bight

Navesink Twin Lights Lighthouse - Top Camera Heading 86°

Viewpoint LocationTurbines



Elevation of Viewpoint Position: Height of Camera Above Ground: Date of Photography: Horizontal Field of View: Vertical Field of View: Furthest Visible Turbine: 55.9mi (90.0km) (OCS-A 0538)

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KOP 35, Navesink Twin Lights Lighthouse - Top, Noon, Heading 86° - Proposed View - NY Bight Leases (853ft) - Predicted Visibility

For on-screen display:
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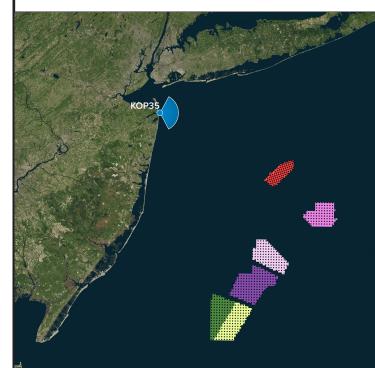


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Navesink Twin Lights Lighthouse - Top

Camera Heading 86°

Viewpoint LocationTurbines



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Vertical Field of View: 55°
Nearest Turbine: 44.1mi (70.9km) (OCS-A 0544)

Furthest Visible Turbine: **55.9mi (90.0km) (OCS-A 0538)**Horizontal Field of View the Projects Occupy: **41.1°**

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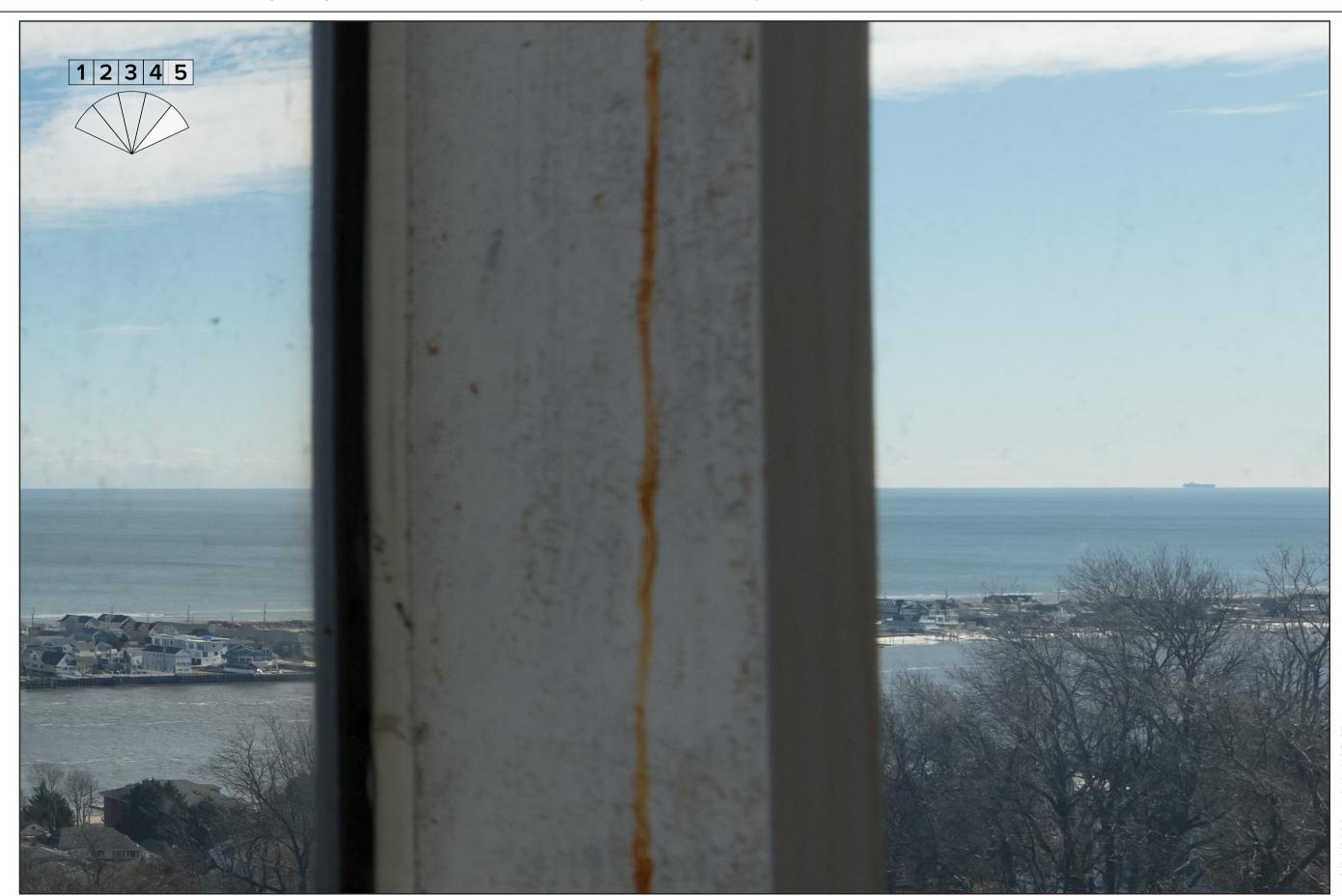
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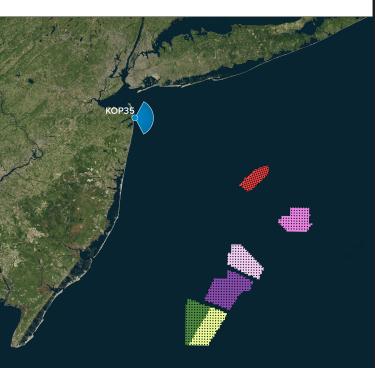
For on-screen display:
Scale bar to be 4 inches wide
Viewing distance 19.7 inches



New York Bight

Navesink Twin Lights Lighthouse - Top Camera Heading 86°

Viewpoint LocationTurbines



Elevation of Viewpoint Position: Height of Camera Above Ground: Date of Photography: Horizontal Field of View: Vertical Field of View:

Furthest Visible Turbine: 55.9mi (90.0km) (OCS-A 0538) Horizontal Field of View the Projects Occupy: 41.1°

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For on-screen display: Scale bar to be 4 inches wide Viewing distance 19.7 inches

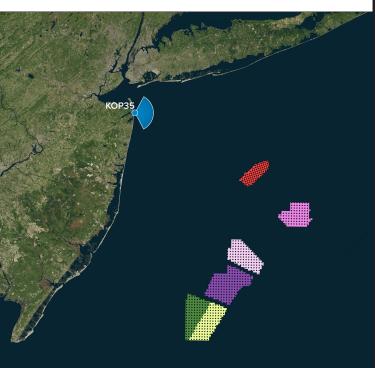


New York Bight

Navesink Twin Lights Lighthouse - Top

Camera Heading 86°

Viewpoint LocationTurbines



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Horizontal Field of View: 124°
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Furthest Visible Turbine: **55.9mi (90.0km) (OCS-A 0538)**Horizontal Field of View the Projects Occupy: **41.1°**

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New York City Land Surveyors PC
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Staten Island NY 10301

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KOP 35, Navesink Twin Lights Lighthouse - Top, Noon, Heading 86° - Proposed View - NY Bight Leases (853ft) - Maximum Visibility





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For on-screen display: Scale bar to be 4 inches wide Viewing distance 19.7 inches

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For on-screen display: Scale bar to be 4 inche Viewing distance 19.7 ir

2/04/2023 at 12:11 - KOP



New York Bight

Navesink Twin Lights Lighthouse - Top Camera Heading 86°

Viewpoint LocationTurbines



Elevation of Viewpoint Position: Height of Camera Above Ground: Date of Photography: Horizontal Field of View: Vertical Field of View: Furthest Visible Turbine: 59.8mi (96.2km) (OCS-A 0549)

CORRECT VIEWING OF TRUEVIEW™ PHOTO SIMULATIONS

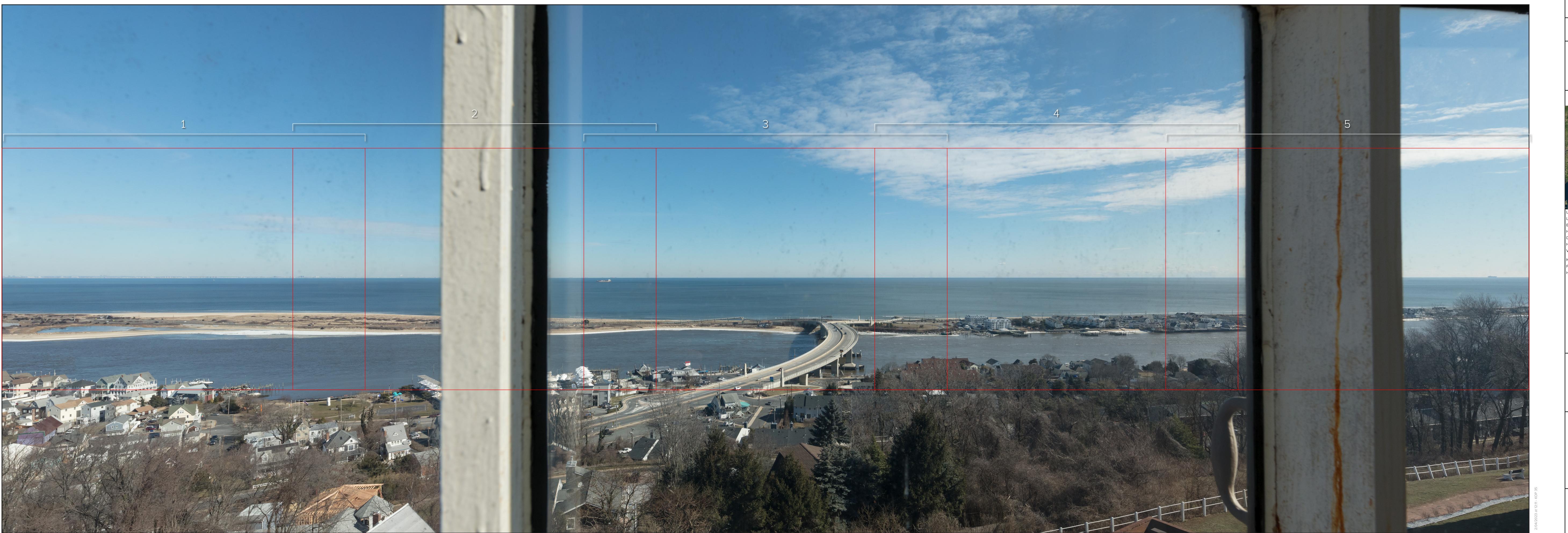
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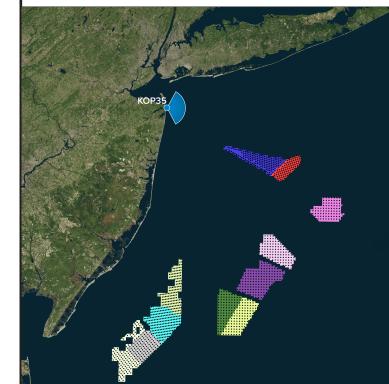
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Camera Heading 86°

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Date of Photography: 2/04/2023 at 12:11
Horizontal Field of View: 124°
Vertical Field of View: 55°
Nearest Turbine: 22.4mi (36.1km) (OCS-A 0512)
Furthest Visible Turbine: 59.8mi (96.2km) (OCS-A 0549)

Furthest Visible Turbine: **59.8mi (96.2km) (OCS-A 0549)**Horizontal Field of View the Projects Occupy: **89.5°**

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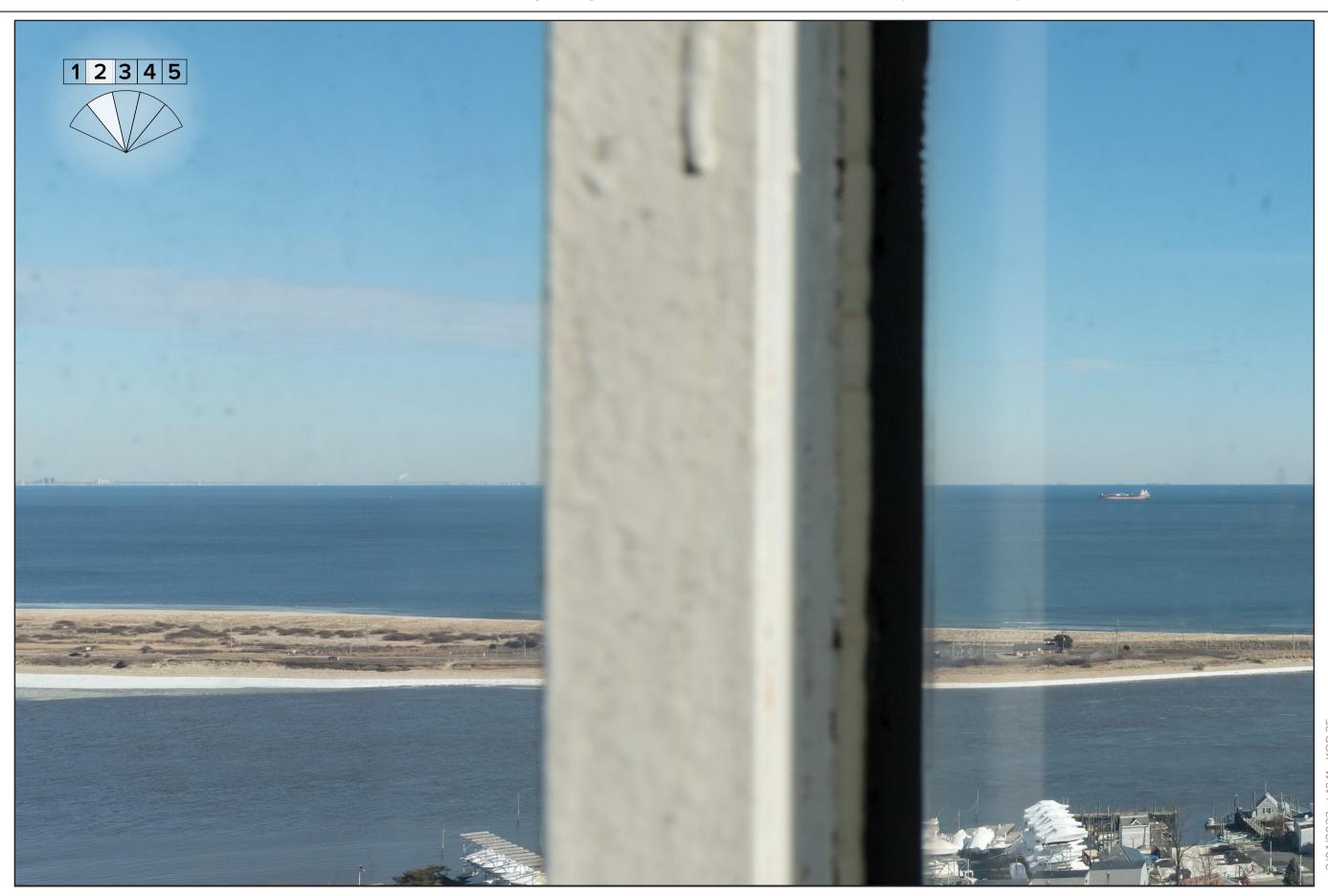
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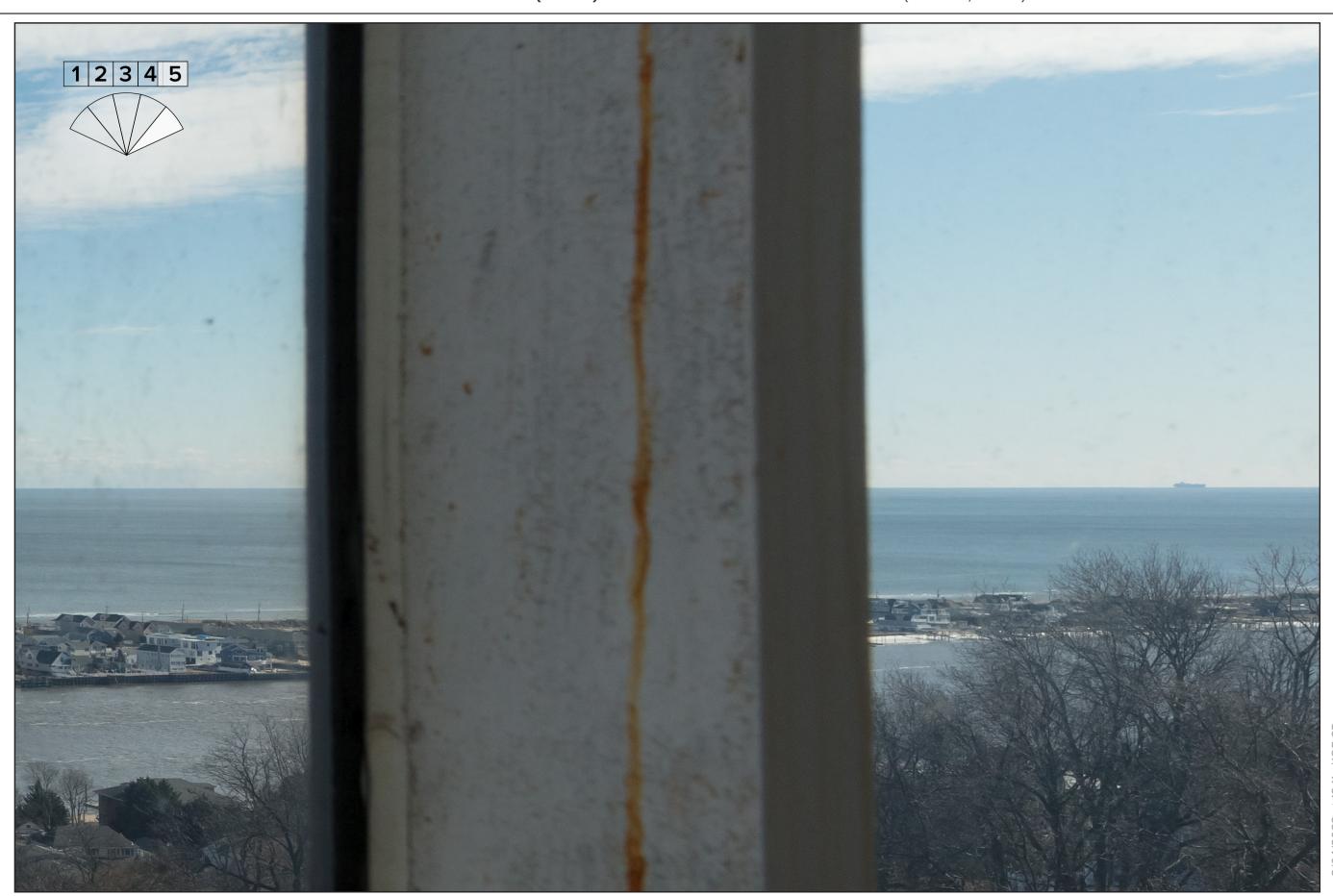
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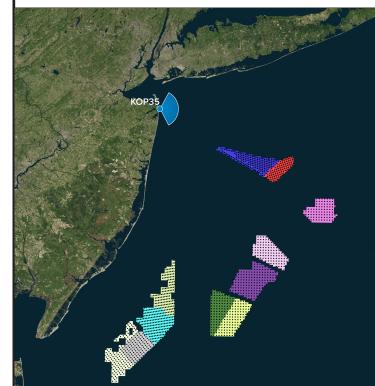
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New York Bight

Navesink Twin Lights Lighthouse - Top Camera Heading 86°

Viewpoint LocationTurbines



Elevation of Viewpoint Position: Height of Camera Above Ground: Date of Photography: Horizontal Field of View: Vertical Field of View:

Furthest Visible Turbine: 59.8mi (96.2km) (OCS-A 0549) Horizontal Field of View the Projects Occupy: **89.5°**

CORRECT VIEWING OF TRUEVIEW™ PHOTO SIMULATIONS

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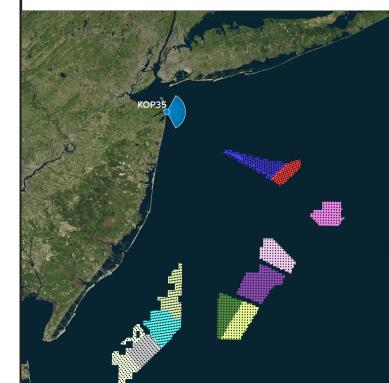
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New York Bight

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Viewpoint LocationTurbines



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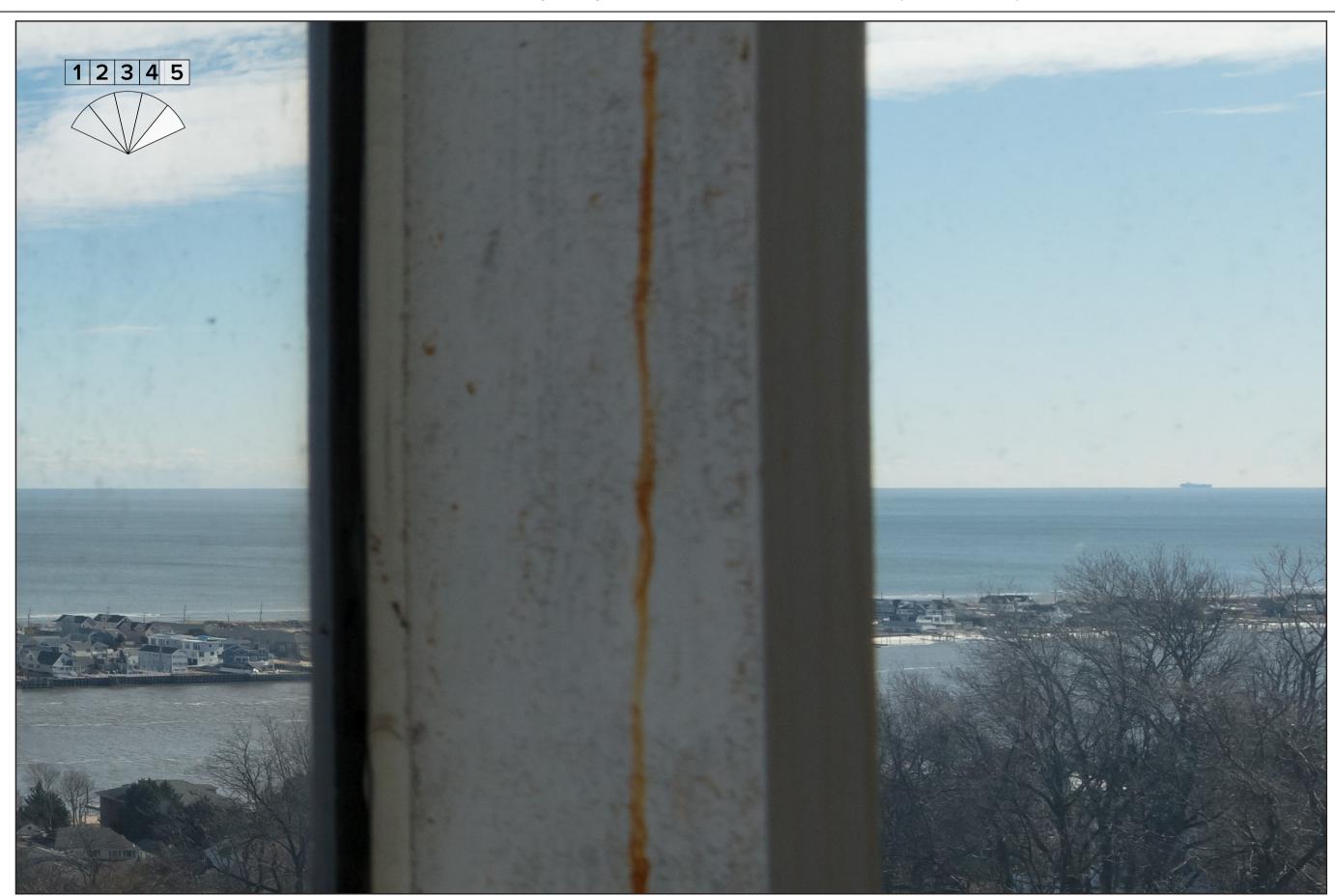
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2/04/2023 at 12:11 - KOP 3



KOP 35, Navesink Twin Lights Lighthouse - Top, Noon, Heading 86° - Proposed View - NY Bight Leases (1312ft) - Predicted Visibility

For on-screen display:
Scale bar to be 4 inches wide
Viewing distance 19.7 inches

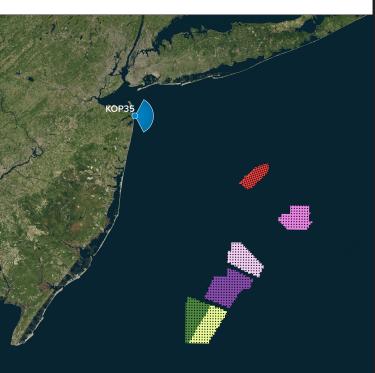


New York Bight

Navesink Twin Lights Lighthouse - Top

Camera Heading 86°

Viewpoint LocationTurbines



Latitude: 40.396605
Longitude: -73.985851
Elevation of Viewpoint Position: 269.817
Height of Camera Above Ground: 5.41
Date of Photography: 2/04/2023 at 12:11
Horizontal Field of View: 124°
Vertical Field of View: 55°
Nearest Turbine: 44.1mi (70.9km) (OCS-A 0544)

Furthest Visible Turbine: **64.7mi (104.1km) (OCS-A 0538)**Horizontal Field of View the Projects Occupy: **57.8°**

CORRECT VIEWING OF TRUEVIEWTM PHOTO SIMULATIONS

NOTES:

Viewpoint locations have been precision surveyed by

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New York City Land Surveyors PC
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Photo Simulation Created Using

Photo Simulation Created Using TrueView™ Technology (Patent No.: US 8,184,906 B2) Provided by





KOP 35, Navesink Twin Lights Lighthouse - Top, Noon, Heading 86° - Proposed View - NY Bight Leases (1312ft) - Predicted Visibility

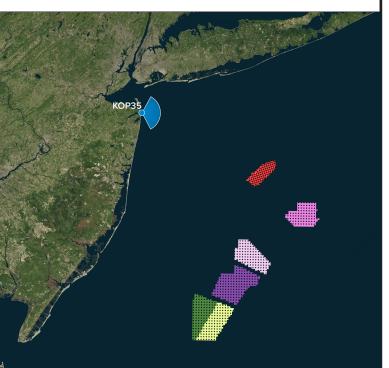
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2/04/2023 at 12:11 - KOP 3



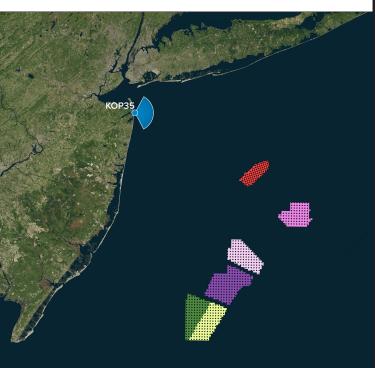
KOP 35, Navesink Twin Lights Lighthouse - Top, Noon, Heading 86° - Proposed View - NY Bight Leases (1312ft) - Maximum Visibility

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New York Bight

Navesink Twin Lights Lighthouse - Top Camera Heading 86°

Viewpoint LocationTurbines



Elevation of Viewpoint Position: Height of Camera Above Ground: Date of Photography: Horizontal Field of View: Vertical Field of View: Furthest Visible Turbine: 64.7mi (104.1km) (OCS-A 0538)

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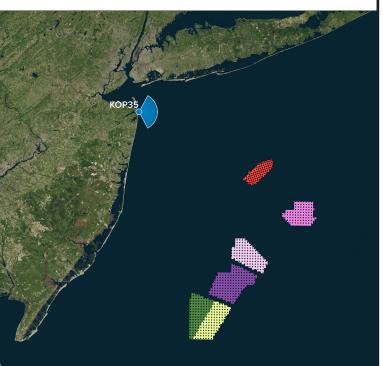
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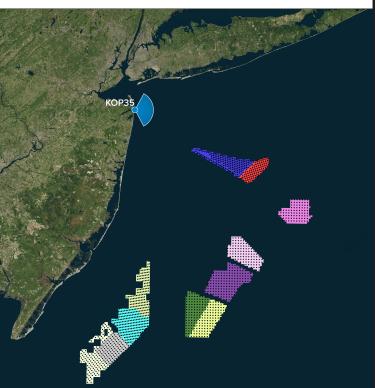
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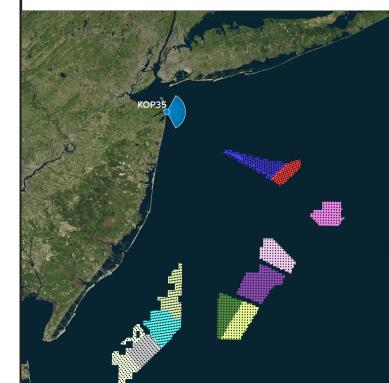
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Nearest Turbine: 22.4mi (36.1km) (OCS-A 0512)
Furthest Visible Turbine: 64.7mi (104.1km) (OCS-A 0538)

Horizontal Field of View the Projects Occupy: 89.5°

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Photo Simulation Created Using TrueView™ Technology (Patent No.: US 8,184,906 B2)

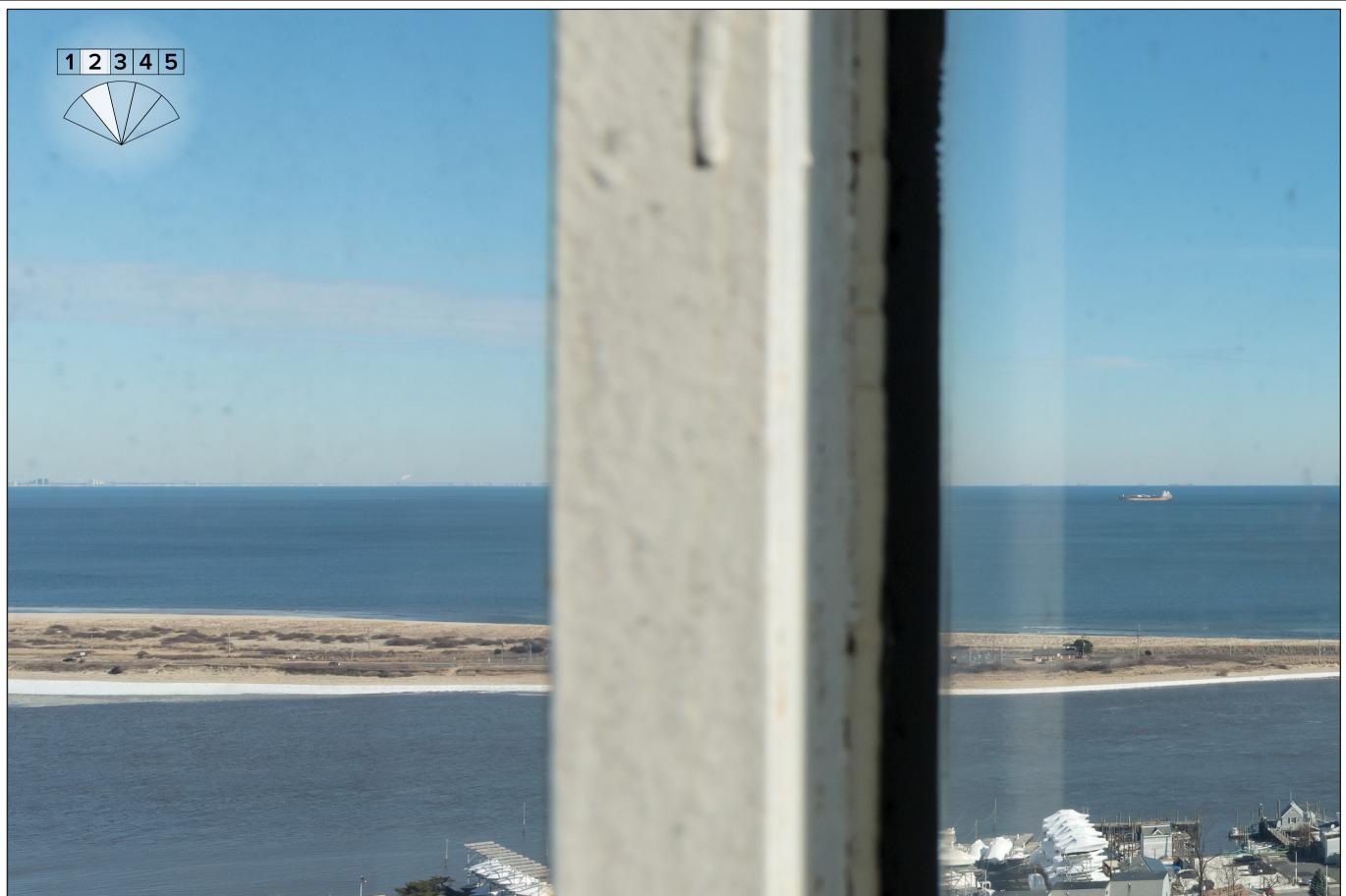
Provided by

Truescape.com



For on-screen display
Scale bar to be 4 inch

2/04/2023 at 12:11 - KOP 35



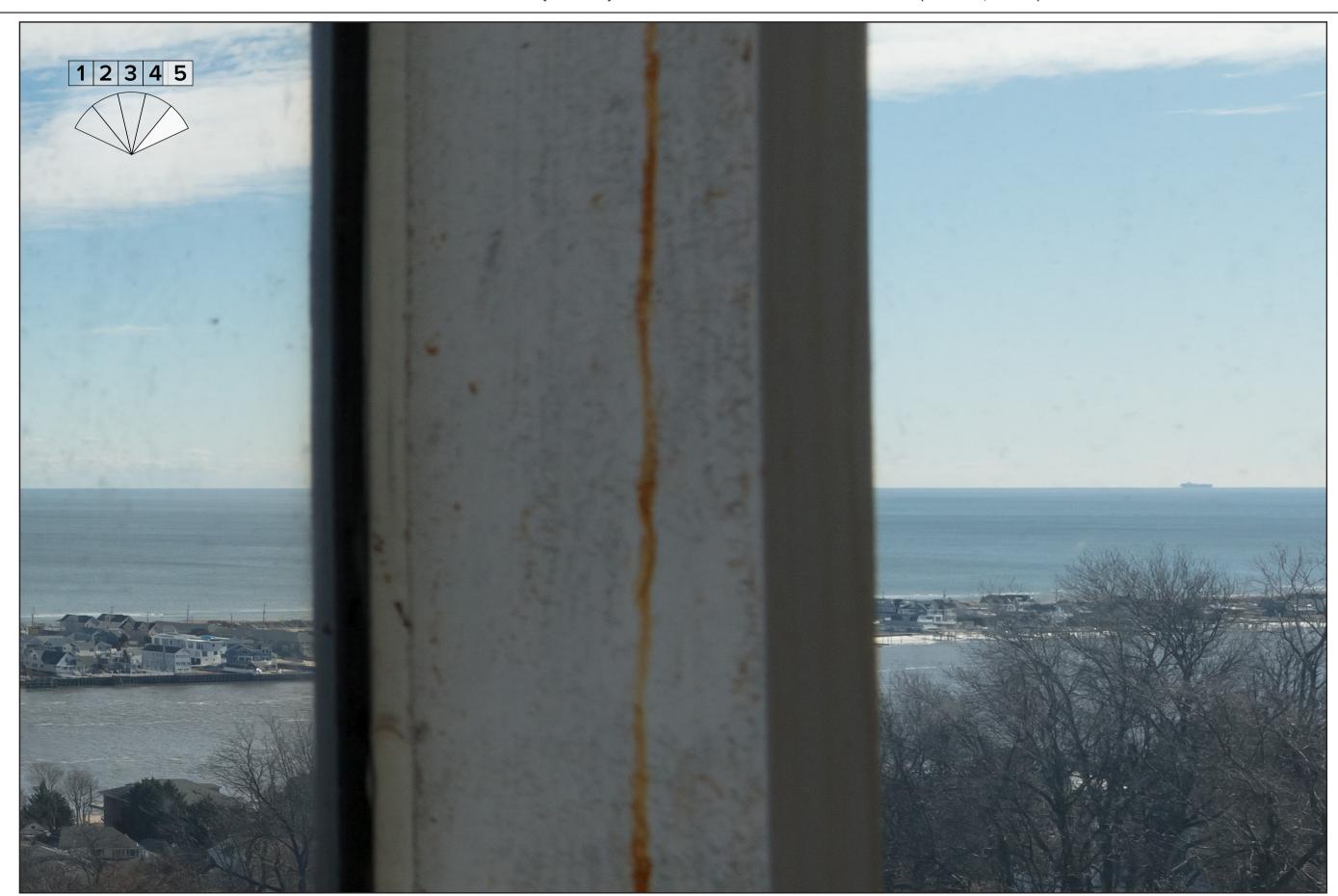
2/04/2023 at 12:11 - KOP



For on-screen displaration Scale bar to be 4 inc. Viewing distance 19.



2/04/2023 at 12:11 - KO



For on-screen display:
Scale bar to be 4 inches v

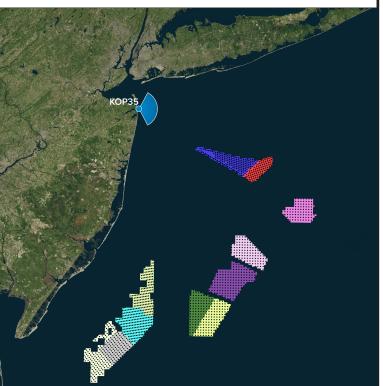
:/04/2023 at 12:11 - KOP 3



New York Bight

Navesink Twin Lights Lighthouse - Top Camera Heading 86°

Viewpoint LocationTurbines



Elevation of Viewpoint Position: Height of Camera Above Ground: Date of Photography: Horizontal Field of View: Vertical Field of View: Furthest Visible Turbine: 64.7mi (104.1km) (OCS-A 0538)

CORRECT VIEWING OF TRUEVIEW™ PHOTO SIMULATIONS

Viewpoint locations have been precision surveyed by New York City Land Surveyors PC 63 Montgomery Avenue Staten Island NY 10301

Heights are above mean sea level. Structure design and placement are subject to final engineering. No part of this photo simulation shall be altered in any way.

Photo Simulation Created Using TrueView™ Technology (Patent No.: US 8,184,906 B2)

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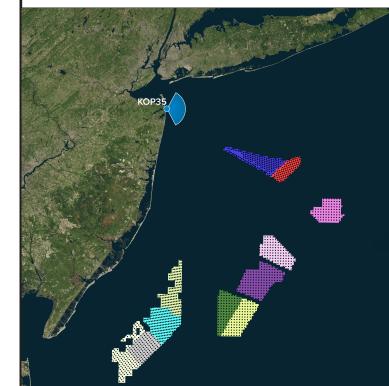
Argonne Argonatory

New York Bight

Navesink Twin Lights Lighthouse - Top

Camera Heading 86°

Viewpoint LocationTurbines



Latitude: 40.396605
Longitude: -73.985851
Elevation of Viewpoint Position: 269.817
Height of Camera Above Ground: 5.41
Date of Photography: 2/04/2023 at 12:11
Horizontal Field of View: 124°
Vertical Field of View: 55°
Nearest Turbine: 22.4mi (36.1km) (OCS-A 0512)
Furthest Visible Turbine: 64.7mi (104.1km) (OCS-A 0538)

Horizontal Field of View the Projects Occupy: 89.5°

CORRECT VIEWING OF TRUEVIEWTM PHOTO SIMULATIONS

Viewpoint locations have been precision surveyed by

New York City Land Surveyors PC
63 Montgomery Avenue
Staten Island NY 10301

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Photo Simulation Created Using TrueView™ Technology (Patent No.: US 8,184,906 B2)

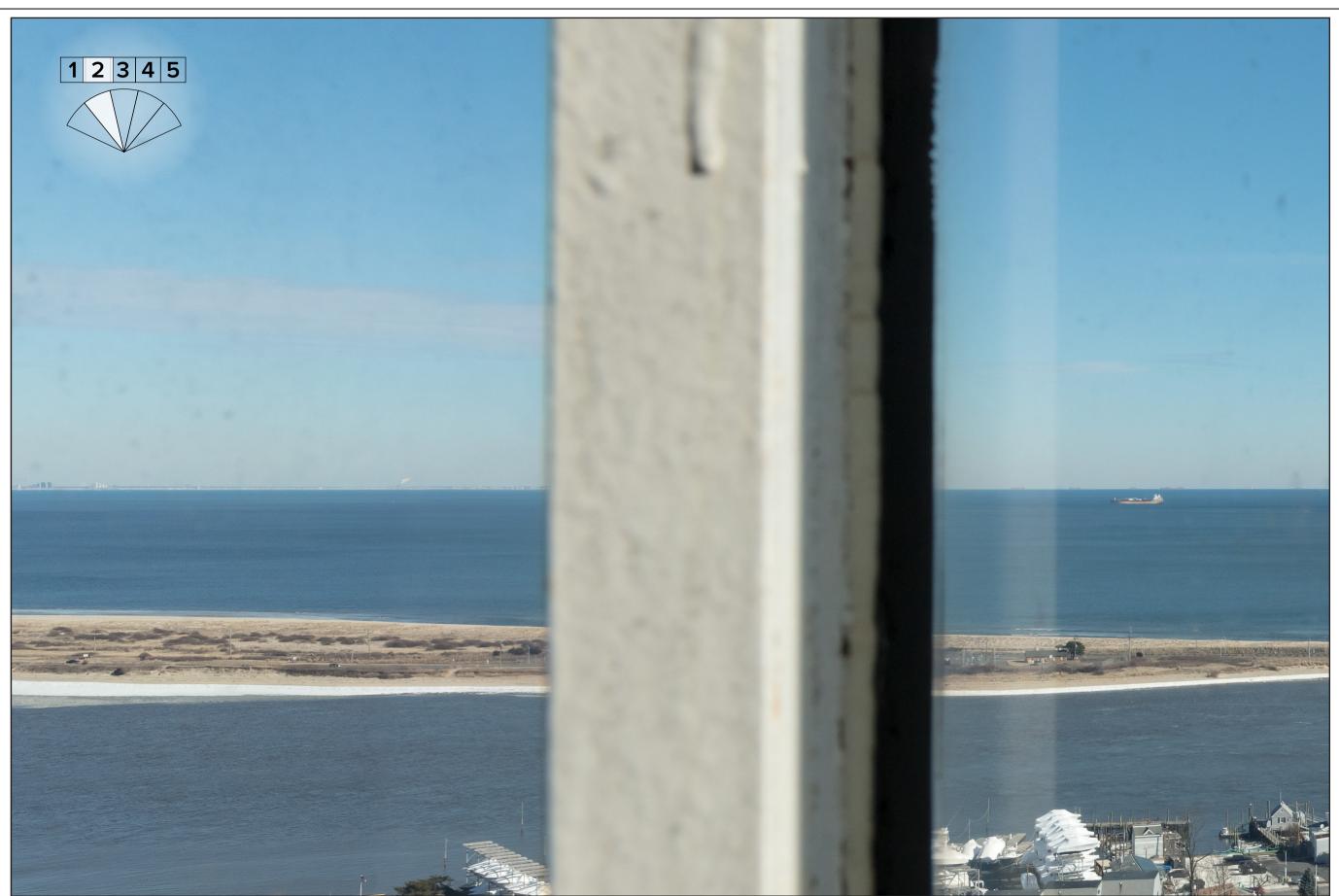
Truescape®

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For on-screen displa Scale bar to be 4 ind

2/04/2023 at 12:11 - KOP 35



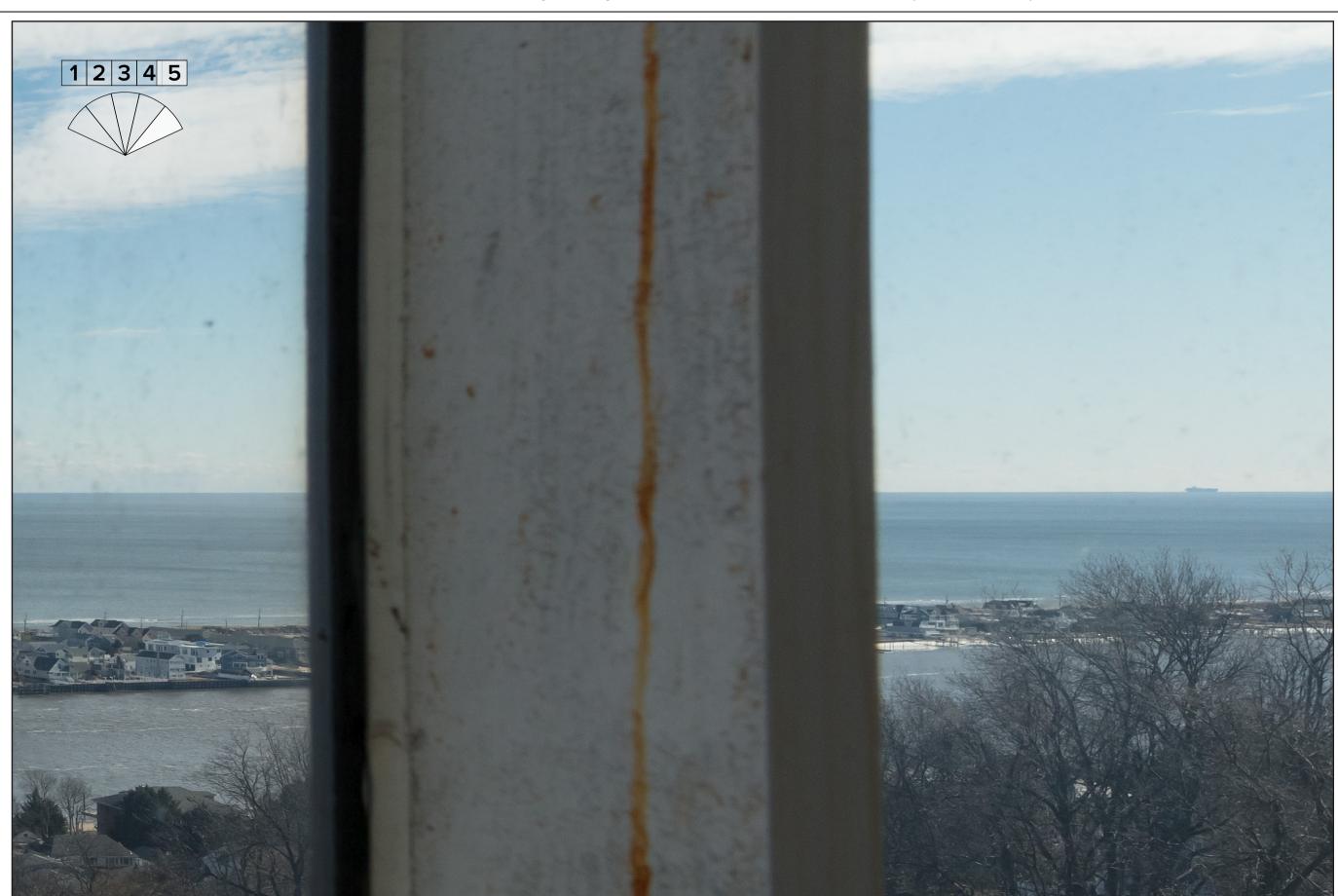
For on-screen displ Scale bar to be 4 in Viewing distance 19

./04/2023 at 12:11 - KOP 3



2/04/2023 at 12:11 - KOP 35





2/04/2023 at 12:11 - KOP 3



KOP 35, Navesink Twin Lights Lighthouse - Top, Noon, Heading 86° - Proposed View - External Leases - Predicted Visibility

For on-screen display:
Scale bar to be 4 inches wide
Viewing distance 19.7 inches

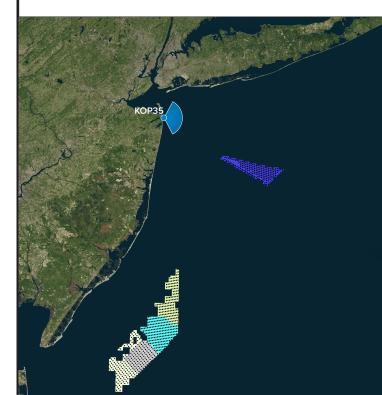


New York Bight

Navesink Twin Lights Lighthouse - Top

Camera Heading 86°

Viewpoint LocationTurbines



Latitude:
Longitude:
Elevation of Viewpoint Position:
Height of Camera Above Ground:
Date of Photography:
Horizontal Field of View:
Vertical Field of View:

CORRECT VIEWING OF TRUEVIEWTM PHOTO SIMULATIONS

NOTES:

Viewpoint locations have been precision surveyed by

Viewpoint locations have been precision surveyed

New York City Land Surveyors PC
63 Montgomery Avenue
Staten Island NY 10301

Heights are above mean sea level.

Structure design and placement are subject to final engine

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Photo Simulation Created Using TrueView™ Technology (Patent No.: US 8,184,906 B2)

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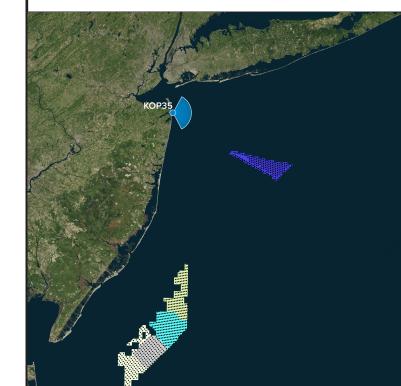
For on-screen display: Scale bar to be 4 inches wide Viewing distance 19.7 inches Argonne Argonational Laboratory

New York Bight

Navesink Twin Lights Lighthouse - Top

Camera Heading 86°

Viewpoint LocationTurbines



Latitude: 40.396
Longitude: -73.98!
Elevation of Viewpoint Position: 269
Height of Camera Above Ground:
Date of Photography: 2/04/2023 at
Horizontal Field of View:
Vertical Field of View:

CORRECT VIEWING OF TRUEVIEWTM PHOTO SIMULATIONS

OTES:
ewpoint locations have been precision survey

Viewpoint locations have been precision surveyed by

New York City Land Surveyors PC
63 Montgomery Avenue
Staten Island NY 10301

Heights are above mean sea level.

Structure design and placement are subject to final engineer

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No part of this photo simulation shall be altered in any way.

Photo Simulation Created Using
TrueViewTM Technology
(Patent No.: US 8,184,906 B2)

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2/04/2023 at 12:11 - KOP 35



'04/2023 at 12:11 - KOP



For on-screen display: Scale bar to be 4 inches wide Viewing distance 19.7 inches

2/04/2023 at 12:11 - KOP 35



2/04/2023 at 12:11 - KO



/04/2023 at 12:11 - KOP 3



KOP 35, Navesink Twin Lights Lighthouse - Top, Noon, Heading 86° - Proposed View - External Leases - Maximum Visibility

For on-screen display:
Scale bar to be 4 inches wide
Viewing distance 19.7 inches

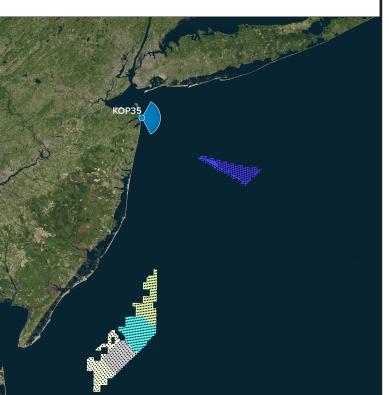


New York Bight

Navesink Twin Lights Lighthouse - Top

Camera Heading 86°

Viewpoint LocationTurbines



Latitude: 4
Longitude: -7
Elevation of Viewpoint Position:
Height of Camera Above Ground:
Date of Photography: 2/04/20
Horizontal Field of View:
Vertical Field of View:

CORRECT VIEWING OF TRUEVIEWTM PHOTO SIMULATIONS

IOTES:

Tiewpoint locations have been precision surveyed.

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New York City Land Surveyors PC
63 Montgomery Avenue
Staten Island NY 10301

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Photo Simulation Created Using TrueView™ Technology (Patent No.: US 8,184,906 B2)

(Patent No.: US 8,184,906 B2)

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For on-screen display:
Scale bar to be 4 inches wide
Viewing distance 19.7 inches

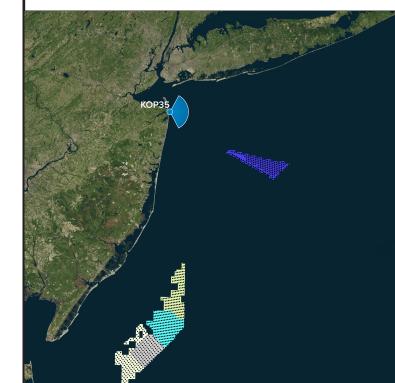
Argonne Argonational Laboratory

New York Bight

Navesink Twin Lights Lighthouse - Top

Camera Heading 86°

Viewpoint LocationTurbines



Latitude: 40.396
Longitude: -73.989
Elevation of Viewpoint Position: 269
Height of Camera Above Ground:
Date of Photography: 2/04/2023 at
Horizontal Field of View:
Vertical Field of View:

CORRECT VIEWING OF TRUEVIEWTM PHOTO SIMULATIONS

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2/04/2023 at 12:11 - KOP 35



/04/2023 at 12:11 - KOP 3



2/04/2023 at 12:11 - KOP 35





/04/2023 at 12:11 - KOP :