

<section-header>



Viewpoint & Project Data Beavertail Lighthouse, Jamestown, RI

Date December 19	2013 Nearest Visible Turbine*
Time 0900	Furthest Visible Turbine*
Camera Coordinates UTM Z19 FT	Number of Turbines Visible* 151
Northing 15063682.570	Temperature
Easting	Weather Conditions Sun & Clouds
Height to Lens 5.1'	Humidity
Ground Elevation 66.3 ft.	Visiblity
Camera Make Nikon	Wave Height 1-2 ft.
Camera Model D800	Lighting Conditions Back & Side Lit
Focal Length 50mm	Sun Elevation 20.4°
Field of View 124° x 55°	Sun Azimuth 206.7°
View Bearing (True) 127°	







<image>



Viewpoint & Project Data Beavertail Lighthouse, Jamestown, RI

Date	December 19, 2013	Nearest Visible Turbine*13.0 mi.
Time	1332	Furthest Visible Turbine*
Camera Coordinates	UTM Z19 FT	Number of Turbines Visible* 151
Northing	15063682.570	Temperature
Easting	982859.075	Weather Conditions Sunny
Height to Lens	5.1'	Humidity
Ground Elevation	66.3 ft.	Visiblity
Camera Make	Nikon	Wave Height 1-2 ft.
Camera Model	D800	Lighting Conditions Back & Side Lit
Focal Length	50 m m	Sun Elevation
Field of View	124° x 55°	Sun Azimuth
View Bearing (True)	127°	
*		







April 16, 2014

Contextual





Viewpoint & Project Data Beavertail Lighthouse, Jamestown, RI

Date	December 19, 2013	Nearest Visible Turbine*13.0 mi.
Time	1530	Furthest Visible Turbine*
Camera Coordinates	UTM Z19 FT	Number of Turbines Visible* 151
Northing	15063682.570	Temperature
Easting	982859.075	Weather Conditions Sunny
Height to Lens	5.1'	Humidity
Ground Elevation	66.3 ft.	Visiblity
Camera Make	Nikon	Wave Height 1-2 ft.
Camera Model	D800	Lighting Conditions Back & Side Lit
Focal Length	50 m m	Sun Elevation
Field of View	124° x 55°	Sun Azimuth
View Bearing (True)	127°	

* Theoretical Visibility based on earth curvature and refraction. Additional screening w weather conditions (considered in this simulation).







Contextual Map



Viewpoint & Project Data Beavertail Lighthouse, Jamestown, RI

Date	December 19, 20	13 Nearest Visible Turbine*1	3.0 mi.
Time	2200	Furthest Visible Turbine*3	1.7 mi.
Camera Coordinates	UTM Z19 FT	Number of Turbines Visible*	151
Northing	15063682.570	Temperature	27°F
Easting	982859.075	Weather Conditions	Clear
Height to Lens	5.1'	Humidity	49%
Ground Elevation	66.3 ft.	Visiblity	32 mi.
Camera Make	Nikon	Wave Height	1-2 ft.
Camera Model	D800	Lighting Conditions	NA
Focal Length	50 m m	Sun Elevation	20.4°
Field of View	124° x 55°	Sun Azimuth	206.7°
View Bearing (True)	127°		
* The second is all Minibility is a second second second		A delition of a second se	

Theoretical Visibility based on earth curvature and refraction. Additional screening will occur as a result of vegetation her conditions (considered in this s







April 16, 2014

Contextual Map





Viewpoint & Project Data Beavertail Lighthouse, Jamestown, RI

Date March 21, 2014	Nearest Visible Turbine*13.0 mi.
Time	Furthest Visible Turbine*
Camera Coordinates UTM Z19 FT	Number of Turbines Visible* 151
Northing 15063682.570	Temperature
Easting	Weather Conditions Sun & Clouds
Height to Lens 5.1'	Humidity
Ground Elevation 66.3 ft.	Visiblity
Camera Make Nikon	Wave Height 1-2 ft.
Camera Model D800	Lighting Conditions Back & Side
Focal Length 50mm	Sun Elevation 20.4°
Field of View 124° x 55°	Sun Azimuth
View Bearing (True) 127°	
* Theoretical Visibility beard on earth surveyurs and refrection. Ad	ditional percenting will ecour as a result of vegetation, structures, and

heoretical Visibility based on earth curvature and refraction. Additional screening will occur as a result of vegetation,







Contextual Map





Viewpoint & Project Data Beavertail Lighthouse, Jamestown, RI

Date March 21, 2014	Nearest Visible Turbine*13.0 mi.
Time 1332	Furthest Visible Turbine*
Camera Coordinates UTM Z19 FT	Number of Turbines Visible*
Northing 15063682.570	Temperature
Easting	Weather Conditions Sunny
Height to Lens 5.1'	Humidity
Ground Elevation 66.3 ft.	Visiblity 25.3 mi.
Camera Make Nikon	Wave Height 1-2 ft.
Camera Model D800	Lighting Conditions Back & Side Lit
Focal Length 50mm	Sun Elevation
Field of View 124° x 55°	Sun Azimuth
View Bearing (True) 127°	







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Contextual





Viewpoint & Project Data Beavertail Lighthouse, Jamestown, RI

Date	March 21, 2014	Nearest Visible Turbine*13.0 mi.
Time	1700	Furthest Visible Turbine*
Camera Coordinates	UTM Z19 FT	Number of Turbines Visible* 151
Northing	15063682.570	Temperature
Easting	982859.075	Weather Conditions Sunny
Height to Lens	5.1'	Humidity
Ground Elevation	66.3 ft.	Visiblity
Camera Make	Nikon	Wave Height 1-2 ft.
Camera Model	D800	Lighting Conditions Back & Side Lit
Focal Length	50 m m	Sun Elevation 20.4°
Field of View	124° x 55°	Sun Azimuth
View Bearing (True)	127°	

* Theoretical Visibility based on earth curvature and refraction. Additional screening will weather conditions (considered in this simulation).









Contextual Map



Viewpoint & Project Data Beavertail Lighthouse, Jamestown, RI

Date	March 21, 2014	Nearest Visible Turbine*1	3.0 mi.
Time	2200	Furthest Visible Turbine*3	1.7 mi.
Camera Coordinates	UTM Z19 FT	Number of Turbines Visible*	151
Northing	15063682.570	Temperature	28°F
Easting	982859.075	Weather Conditions	Clear
Height to Lens	5.1'	Humidity	49%
Ground Elevation	66.3 ft.	Visiblity	32 mi.
Camera Make	Nikon	Wave Height	1-2 ft.
Camera Model	D800	Lighting Conditions	NA
Focal Length	50mm	Sun Elevation	20.4°
Field of View	124° x 55°	Sun Azimuth	206.7°
View Bearing (True)	127°		
* The second section (1) (in the lifety is the second second second			

Theoretical Visibility based on earth curvature and refraction. Additional screening will occur as a result of







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Contextual Map





Viewpoint & Project Data Beavertail Lighthouse, Jamestown, RI

Date June 21, 2014	Nearest Visible Turbine*13.0 mi.
Time 0700	Furthest Visible Turbine*
Camera Coordinates UTM Z19 FT	Number of Turbines Visible* 151
Northing 15063682.570	Temperature
Easting	Weather Conditions Sun & Clouds
Height to Lens 5.1'	Humidity
Ground Elevation 66.3 ft.	Visiblity
Camera Make Nikon	Wave Height 1-2 ft.
Camera Model D800	Lighting Conditions Back & Side Lit
Focal Length 50mm	Sun Elevation 20.4°
Field of View 124° x 55°	Sun Azimuth
View Bearing (True) 127°	

* Theoretical Visibility based on earth curvature and refraction. Additional screening will occur a weather conditions (considered in this simulation).







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Contextual





Viewpoint & Project Data Beavertail Lighthouse, Jamestown, RI

Date J	June 21, 2014	Nearest Visible Turbine*13.0 mi.
Time 1	1332	Furthest Visible Turbine*
Camera Coordinates	UTM Z19 FT	Number of Turbines Visible* 151
Northing 1	15063682.570	Temperature
Easting	982859.075	Weather Conditions Sunny
Height to Lens	5.1'	Humidity
Ground Elevation	66.3 ft.	Visiblity
Camera Make	Nikon	Wave Height 1-2 ft.
Camera Model	D800	Lighting Conditions Back & Side Lit
Focal Length 5	50 m m	Sun Elevation 20.4°
Field of View 1	124° x 55°	Sun Azimuth 206.7°
View Bearing (True) 1	127°	







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Contextual





Viewpoint & Project Data Beavertail Lighthouse, Jamestown, RI

Date June	21, 2014	Nearest Visible Turbine*1	.3.0 mi.
Time 2000	0	Furthest Visible Turbine*3	1.7 mi.
Camera Coordinates UTM	1 Z19 FT	Number of Turbines Visible*	151
Northing 1506	63682.570	Temperature	65°F
Easting	859.075	Weather Conditions	Sunny
Height to Lens 5.1'		Humidity	49%
Ground Elevation 66.3	ft.	Visiblity 1	.8.5 mi.
Camera Make Niko	n	Wave Height	1-2 ft.
Camera Model D800	0	Lighting Conditions Back & S	Side Lit
Focal Length 50m	m	Sun Elevation	20.4°
Field of View 124°	° x 55°	Sun Azimuth	206.7°
View Bearing (True) 127°	5		

* Theoretical Visibility based on earth curvature and refraction. Additional screening will weather conditions (considered in this simulation).







Contextual Map





Viewpoint & Project Data Beavertail Lighthouse, Jamestown, RI

Date	June 21, 2014	Nearest Visible Turbine*1	3.0 mi.
Time	2200	Furthest Visible Turbine*3	1.7 mi.
Camera Coordinates	UTM Z19 FT	Number of Turbines Visible*	151
Northing	15063682.570	Temperature	60°F
Easting	982859.075	Weather Conditions	Clear
Height to Lens	5.1'	Humidity	49%
Ground Elevation	66.3 ft.	Visiblity	32 mi.
Camera Make	Nikon	Wave Height	1-2 ft.
Camera Model	D800	Lighting Conditions	NA
Focal Length	50mm	Sun Elevation	20.4°
Field of View	124° x 55°	Sun Azimuth	206.7°
View Bearing (True)	127°		

Theoretical Visibility based on earth curvature and refraction. Additional screening will occur as a result of vegetation







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Viewpoint & Project Data Beavertail Lighthouse, Jamestown, RI

Date September 21, 2014	Nearest Visible Turbine*13.0 mi.
Time	Furthest Visible Turbine*
Camera Coordinates UTM Z19 FT	Number of Turbines Visible*
Northing 15063682.570	Temperature
Easting	Weather Conditions Sun & Clouds
Height to Lens 5.1'	Humidity
Ground Elevation 66.3 ft.	Visiblity 22.1 mi.
Camera Make Nikon	Wave Height 1-2 ft.
Camera Model D800	Lighting Conditions Back & Side Lit
Focal Length 50mm	Sun Elevation 20.4°
Field of View 124° x 55°	Sun Azimuth 206.7°
View Bearing (True) 127°	







Contextual Map





Viewpoint & Project Data Beavertail Lighthouse, Jamestown, RI

Date	September 21, 2014	Nearest Visible Turbine*13.0 mi.
Time	1332	Furthest Visible Turbine*
Camera Coordinates	UTM Z19 FT	Number of Turbines Visible* 151
Northing	15063682.570	Temperature
Easting	982859.075	Weather Conditions Sunny
Height to Lens	5.1'	Humidity
Ground Elevation	66.3 ft.	Visiblity
Camera Make	Nikon	Wave Height 1-2 ft.
Camera Model	D800	Lighting Conditions Back & Side Lit
Focal Length	50 m m	Sun Elevation
Field of View	124° x 55°	Sun Azimuth
View Bearing (True)	127°	







Contextual Map





Viewpoint & Project Data Beavertail Lighthouse, Jamestown, RI

Date	September 21, 2014	Nearest Visible Turbine*13.0 mi.
Time	1700	Furthest Visible Turbine*
Camera Coordinates	UTM Z19 FT	Number of Turbines Visible* 151
Northing	15063682.570	Temperature
Easting	982859.075	Weather Conditions Sunny
Height to Lens	5.1'	Humidity
Ground Elevation	66.3 ft.	Visiblity 22.1 mi.
Camera Make	Nikon	Wave Height 1-2 ft.
Camera Model	D800	Lighting Conditions Back & Side Lit
Focal Length	50 m m	Sun Elevation
Field of View	124° x 55°	Sun Azimuth 206.7°
View Bearing (True)	127°	









Contextual Map



Viewpoint & Project Data Beavertail Lighthouse, Jamestown, RI

Date	September 21, 20	Nearest Visible Turbine*13	3.0 mi.
Time	2200	Furthest Visible Turbine*32	1.7 mi.
Camera Coordinates	UTM Z19 FT	Number of Turbines Visible*	151
Northing	15063682.570	Temperature	55°F
Easting	982859.075	Weather Conditions	Clear
Height to Lens	5.1'	Humidity	49%
Ground Elevation	66.3 ft.	Visiblity	32 mi.
Camera Make	Nikon	Wave Height	1-2 ft.
Camera Model	D800	Lighting Conditions	NA
Focal Length	50mm	Sun Elevation	20.4°
Field of View	124° x 55°	Sun Azimuth	206.7°
View Bearing (True)	127°		
* Theoretical Visibility based on earth	a our voture and refraction	Additional percoping will occur as a result of vegetation, structures, and	

pretical Visibility based on earth curvature and refraction. Additional screening will occur as a result







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Contextual





Viewpoint & Project Data Beavertail Lighthouse, Jamestown, RI

Date	December 19, 2013	Nearest Visible Turbine*13.0 mi.
Time	0900	Furthest Visible Turbine*
Camera Coordinates	UTM Z19 FT	Number of Turbines Visible* 151
Northing	15063682.570	Temperature
Easting	982859.075	Weather Conditions Cloudy
Height to Lens	5.1'	Humidity
Ground Elevation	66.3 ft.	Visiblity
Camera Make	Nikon	Wave Height 1-2 ft.
Camera Model	D800	Lighting Conditions Back & Side Lit
Focal Length	50 m m	Sun Elevation
Field of View	124° x 55°	Sun Azimuth
View Bearing (True)	127°	

[•] Theoretical Visibility based on earth curvature and refraction. Additional screening wi







Contextual Map





Viewpoint & Project Data Beavertail Lighthouse, Jamestown, RI

Date December 19, 2013	Nearest Visible Turbine*13.0 mi.
Time 1332	Furthest Visible Turbine*
Camera Coordinates UTM Z19 FT	Number of Turbines Visible* 151
Northing 15063682.570	Temperature
Easting	Weather Conditions Sun & Clouds
Height to Lens 5.1'	Humidity
Ground Elevation 66.3 ft.	Visiblity
Camera Make Nikon	Wave Height 1-2 ft.
Camera Model D800	Lighting Conditions Back & Side Lit
Focal Length 50mm	Sun Elevation 20.4°
Field of View 124° x 55°	Sun Azimuth 206.7°
View Bearing (True) 127°	







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Viewpoint & Project Data Beavertail Lighthouse, Jamestown, RI

Date Decem	ber 19, 2013	Nearest Visible Turbine*13.0 mi.
Time 1530	I	Furthest Visible Turbine*
Camera Coordinates UTM Z	19 FT I	Number of Turbines Visible* 151
Northing 15063	682.570	Temperature
Easting	9.075	Weather Conditions Sun & Clouds
Height to Lens 5.1'	I	Humidity
Ground Elevation 66.3 ft	v	Visiblity
Camera Make Nikon	,	Wave Height 1-2 ft.
Camera Model D800	I	Lighting Conditions Back & Side Lit
Focal Length 50mm	9	Sun Elevation 20.4°
Field of View 124° x	55° .	Sun Azimuth 206.7°
View Bearing (True) 127°		







April 16, 2014

Contextual





Viewpoint & Project Data Beavertail Lighthouse, Jamestown, RI

Date	March 21, 2014	Nearest Visible Turbine*13.0 mi.
Time	0800	Furthest Visible Turbine*
Camera Coordinates	UTM Z19 FT	Number of Turbines Visible* 151
Northing	15063682.570	Temperature
Easting	982859.075	Weather Conditions Cloudy
Height to Lens	5.1'	Humidity
Ground Elevation	66.3 ft.	Visiblity
Camera Make	Nikon	Wave Height 1-2 ft.
Camera Model	D800	Lighting Conditions Back & Side
Focal Length	50 m m	Sun Elevation 20.4°
Field of View	124° x 55°	Sun Azimuth
View Bearing (True)	127°	







Contextual Map



Viewpoint & Project Data Beavertail Lighthouse, Jamestown, RI

Date March 21, 2014	Nearest Visible Turbine*13.0 mi.
Time 1332	Furthest Visible Turbine*
Camera Coordinates UTM Z19 FT	Number of Turbines Visible*
Northing 15063682.570	Temperature
Easting	Weather Conditions Sun & Clouds
Height to Lens 5.1'	Humidity
Ground Elevation 66.3 ft.	Visiblity 14.0 mi.
Camera Make Nikon	Wave Height 1-2 ft.
Camera Model D800	Lighting Conditions Back & Side Lit
Focal Length 50mm	Sun Elevation 20.4°
Field of View 124° x 55°	Sun Azimuth 206.7°
View Bearing (True) 127°	
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Viewpoint & Project Data Beavertail Lighthouse, Jamestown, RI

Date	March 21, 2014	Nearest Visible Turbine*13.0 mi.
Time	1700	Furthest Visible Turbine*
Camera Coordinates	UTM Z19 FT	Number of Turbines Visible* 151
Northing	15063682.570	Temperature
Easting	982859.075	Weather Conditions Sun & Clouds
Height to Lens	5.1'	Humidity
Ground Elevation	66.3 ft.	Visiblity
Camera Make	Nikon	Wave Height 1-2 ft.
Camera Model	D800	Lighting Conditions Back & Side Lit
Focal Length	50 m m	Sun Elevation 20.4°
Field of View	124° x 55°	Sun Azimuth 206.7°
View Bearing (True)	127°	
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Contextual





Viewpoint & Project Data Beavertail Lighthouse, Jamestown, RI

Date June 21, 2014	Nearest Visible Turbine*13.0 mi.
Time 0700	Furthest Visible Turbine*
Camera Coordinates UTM Z19 FT	Number of Turbines Visible* 151
Northing 15063682.570	Temperature 62°F
Easting	Weather Conditions Cloudy
Height to Lens 5.1'	Humidity
Ground Elevation 66.3 ft.	Visiblity 11.3 mi.
Camera Make Nikon	Wave Height 1-2 ft.
Camera Model D800	Lighting Conditions Back & Side Lit
Focal Length 50mm	Sun Elevation 20.4°
Field of View 124° x 55°	Sun Azimuth 206.7°
View Bearing (True) 127°	

* Theoretical Visibility based on earth curvature and refraction. Additional screening will occur as weather conditions (considered in this simulation).







Contextual Map





Viewpoint & Project Data Beavertail Lighthouse, Jamestown, RI

Date June 21, 2014	Nearest Visible Turbine*13.0 mi.
Time 1332	Furthest Visible Turbine*
Camera Coordinates UTM Z19 FT	Number of Turbines Visible* 151
Northing 15063682.570	Temperature
Easting	Weather Conditions Sun & Clouds
Height to Lens 5.1'	Humidity
Ground Elevation 66.3 ft.	Visiblity 11.3 mi.
Camera Make Nikon	Wave Height 1-2 ft.
Camera Model D800	Lighting Conditions Back & Side Lit
Focal Length 50mm	Sun Elevation
Field of View 124° x 55°	Sun Azimuth 206.7°
View Bearing (True) 127°	







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Viewpoint & Project Data Beavertail Lighthouse, Jamestown, RI

Date June 21, 2014	Nearest Visible Turbine*13.0 mi.
Time 2000	Furthest Visible Turbine*
Camera Coordinates UTM Z19 FT	Number of Turbines Visible*
Northing 15063682.570	Temperature
Easting	Weather Conditions Sun & Clouds
Height to Lens 5.1'	Humidity
Ground Elevation 66.3 ft.	Visiblity 11.3 mi.
Camera Make Nikon	Wave Height 1-2 ft.
Camera Model D800	Lighting Conditions Back & Side Lit
Focal Length 50mm	Sun Elevation 20.4°
Field of View 124° x 55°	Sun Azimuth 206.7°
View Bearing (True) 127°	







April 16, 2014

Contextual Map





Viewpoint & Project Data Beavertail Lighthouse, Jamestown, RI

Date	September 21, 2014	Nearest Visible Turbine*13.0 mi.
Time	0800	Furthest Visible Turbine*
Camera Coordinates	UTM Z19 FT	Number of Turbines Visible* 151
Northing	15063682.570	Temperature
Easting	982859.075	Weather Conditions Cloudy
Height to Lens	5.1'	Humidity
Ground Elevation	66.3 ft.	Visiblity
Camera Make	Nikon	Wave Height 1-2 ft.
Camera Model	D800	Lighting Conditions Back & Side Lit
Focal Length	50 m m	Sun Elevation
Field of View	124° x 55°	Sun Azimuth
View Bearing (True)	127°	

* Theoretical Visibility based on earth curvature and refraction. Additional screening will occur weather conditions (considered in this simulation).







Contextual Map





Viewpoint & Project Data Beavertail Lighthouse, Jamestown, RI

Date September 21, 2	Nearest Visible Turbine*13.0 mi.
Time 1332	Furthest Visible Turbine*
Camera Coordinates UTM Z19 FT	Number of Turbines Visible*
Northing 15063682.570	Temperature
Easting	Weather Conditions Sun & Clouds
Height to Lens 5.1'	Humidity
Ground Elevation 66.3 ft.	Visiblity
Camera Make Nikon	Wave Height 1-2 ft.
Camera Model D800	Lighting Conditions Back & Side Lit
Focal Length 50mm	Sun Elevation
Field of View 124° x 55°	Sun Azimuth 206.7°
View Bearing (True) 127°	







April 16, 2014

Contextual Map





Viewpoint & Project Data Beavertail Lighthouse, Jamestown, RI

Date Septemb	er 21, 2014 Nearest Visible Turbine*13.0 mi.
Time 1700	Furthest Visible Turbine*
Camera Coordinates UTM Z19	FT Number of Turbines Visible* 151
Northing 1506368	2.570 Temperature 62°F
Easting	Weather ConditionsSun & Clouds
Height to Lens 5.1'	Humidity
Ground Elevation 66.3 ft.	Visiblity 15.0 mi.
Camera Make Nikon	Wave Height 1-2 ft.
Camera Model D800	Lighting Conditions Back & Side Lit
Focal Length 50mm	Sun Elevation 20.4°
Field of View 124° x 55	5° Sun Azimuth
View Bearing (True) 127°	

* Theoretical Visibility based on earth curvature and refraction. Additional screening will occur weather conditions (considered in this simulation).



