

STREAM FIELD ID: ST-A512

Project Name: Ball Hill Wind Project		
Stream Name: <u>unnamed Tributary</u>		Date: <u>11/05/2015</u>
County: Chautauqua		State: New York
Evaluator(s): <u>M. Boberg S. Buckenmeyer</u>		Data Point ID: <u>574</u>
Stream Characteristics		Bottom Characteristics
Perceptible Flow <input checked="" type="checkbox"/> yes <input type="checkbox"/> no Flow Regime: <input checked="" type="checkbox"/> Perennial <input type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral Stream Flow Direction <u>South</u> Width (ft) (water's edge to water's edge) <u>2-4'</u> Width (ft) (bank to bank) <u>6-7'</u>		Substrate Type: Probed Stream Depth (if water present): <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/> 0 - 6" <input checked="" type="checkbox"/> Cobble <input type="checkbox"/> 7 - 12" <input type="checkbox"/> Gravel <input type="checkbox"/> 13 - 24" <input type="checkbox"/> Sand <input type="checkbox"/> 25 - 36" <input checked="" type="checkbox"/> Silt/Clay <input type="checkbox"/> 37" + <input type="checkbox"/> Other <input type="checkbox"/> No Perceptible Depth
Bank Height and Slope		Associated Habitat
Left Bank* <div style="text-align: center;"><u>0-3' High</u></div> <input checked="" type="checkbox"/> 0 - 20% (0-11°) <input checked="" type="checkbox"/> <input type="checkbox"/> 21 - 50% (12-27°) <input type="checkbox"/> <input type="checkbox"/> 51 - 100% + (38-45°) <input type="checkbox"/> <input type="checkbox"/> 100%+(46°+) <input type="checkbox"/> <div style="text-align: center;"><u>3-6' High</u></div> <input type="checkbox"/> 0 - 20% (0-11°) <input type="checkbox"/> <input type="checkbox"/> 21 - 50% (12-27°) <input type="checkbox"/> <input type="checkbox"/> 51 - 100% (38-45°) <input type="checkbox"/> <input type="checkbox"/> 100% (46°+) <input type="checkbox"/> <div style="text-align: center;"><u>6' + High</u></div> <input type="checkbox"/> 0 - 20% (0-11°) <input type="checkbox"/> <input type="checkbox"/> 21 - 50% (12-27°) <input type="checkbox"/> <input type="checkbox"/> 51 - 100% (38-45°) <input type="checkbox"/> <input type="checkbox"/> 100% (46°+) <input type="checkbox"/>	Right Bank* <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Riparian Vegetation <input checked="" type="checkbox"/> yes <input type="checkbox"/> no If yes, list: <u>mixed Hardwoods</u> Aquatic Vegetation <input type="checkbox"/> yes <input checked="" type="checkbox"/> no If yes, list: Associated Wetland <input checked="" type="checkbox"/> yes <input type="checkbox"/> no If yes, list ID: Aquatic Organisms <input type="checkbox"/> yes <input checked="" type="checkbox"/> no If yes, list: Riparian/Terrestrial Organisms <input type="checkbox"/> yes <input checked="" type="checkbox"/> no If yes, list: T&E Species <input type="checkbox"/> yes <input checked="" type="checkbox"/> no If yes, list:
Provide Detail of any Evidence of Erosion: _____ _____ _____ _____		Stream Photos Collected ID, Direction, and Description: <u>PHOTO U14 US/N</u> <u>PHOTO U15 DS/S</u> <u>PHOTO U10 RTL/W</u>

STREAM FIELD ID: A520

Project Name: Ball Hill Wind Project		
Stream Name:		Date: <u>11/12/2015</u>
County: Chautauqua		State: New York
Evaluator(s): <u>B. Virts, S. Burkenmeyer</u>		Data Point ID: <u>609</u>
Stream Characteristics		Bottom Characteristics
Perceptible Flow <input checked="" type="checkbox"/> yes <input type="checkbox"/> no Flow Regime: <input checked="" type="checkbox"/> Perennial <input type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral Stream Flow Direction <u>North SB East</u> Width (ft) (water's edge to water's edge) <u>2-8 feet</u> Width (ft) (bank to bank) <u>4-10 feet</u>		Substrate Type: Probed Stream Depth (if water present): <input type="checkbox"/> Bedrock <input type="checkbox"/> 0 - 6" <input type="checkbox"/> Cobble <input checked="" type="checkbox"/> 7 - 12" <input type="checkbox"/> Gravel <input type="checkbox"/> 13 - 24" <input type="checkbox"/> Sand <input type="checkbox"/> 25 - 36" <input checked="" type="checkbox"/> Silt/Clay <input type="checkbox"/> 37" + <input type="checkbox"/> Other <input type="checkbox"/> No Perceptible Depth
Bank Height and Slope		Associated Habitat
Left Bank* <div style="text-align: center;"><u>0-3' High</u></div> <input checked="" type="checkbox"/> 0 - 20% (0-11°) <input checked="" type="checkbox"/> <input type="checkbox"/> 21 - 50% (12-27°) <input type="checkbox"/> <input type="checkbox"/> 51 - 100% + (38-45°) <input type="checkbox"/> <input type="checkbox"/> 100%+(46°+) <input type="checkbox"/> <div style="text-align: center;"><u>3-6' High</u></div> <input type="checkbox"/> 0 - 20% (0-11°) <input type="checkbox"/> <input type="checkbox"/> 21 - 50% (12-27°) <input type="checkbox"/> <input type="checkbox"/> 51 - 100% (38-45°) <input type="checkbox"/> <input type="checkbox"/> 100% (46°+) <input type="checkbox"/> <div style="text-align: center;"><u>6' + High</u></div> <input type="checkbox"/> 0 - 20% (0-11°) <input type="checkbox"/> <input type="checkbox"/> 21 - 50% (12-27°) <input type="checkbox"/> <input type="checkbox"/> 51 - 100% (38-45°) <input type="checkbox"/> <input type="checkbox"/> 100% (46°+) <input type="checkbox"/>	Right Bank* <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Riparian Vegetation <input checked="" type="checkbox"/> yes <input type="checkbox"/> no If yes, list: <u>Facultative Emergent Herbaceous</u> Aquatic Vegetation <input type="checkbox"/> yes <input checked="" type="checkbox"/> no If yes, list: Associated Wetland <input checked="" type="checkbox"/> yes <input type="checkbox"/> no If yes, list ID: <u>A565</u> Aquatic Organisms <input type="checkbox"/> yes <input checked="" type="checkbox"/> no If yes, list: <u>None observed</u> Riparian/Terrestrial Organisms <input checked="" type="checkbox"/> yes <input type="checkbox"/> no If yes, list: <u>Cattle</u> T&E Species <input type="checkbox"/> yes <input checked="" type="checkbox"/> no If yes, list: <u>None observed</u>
Provide Detail of any Evidence of Erosion: <u>Erosion from livestock. Severe stream instability in upper stream reach. Stable in the lower stream reach.</u>		Stream Photos Collected ID, Direction, and Description: <u>673 W/US, 674 E/DS, 675 N/RTL</u>

STREAM FIELD ID: A521

Project Name: Ball Hill Wind Project

Stream Name: NORTH Branch

Date: 11/12/15

County: Chautauqua

State: New York

Evaluator(s): B. Viets, S. Buckenmeyer

Data Point ID: 612
~~DP-621 (SV)~~ DP-621 (SV)

Stream Characteristics

Bottom Characteristics

Perceptible Flow yes [] no
Flow Regime: Perennial [] Intermittent [] Ephemeral

Substrate Type: Bedrock 0-6"
 Cobble 7-12"
 Gravel 13-24"
 Sand 25-36"
 Silt/Clay 37"+
 Other No Perceptible Depth

Stream Flow Direction North
Width (ft) (water's edge to water's edge) Two channels
1^o = 8', 2^o = 6'
Width (ft) (bank to bank) 1^o = 12'-12', 2^o 8'-10'

Bank Height and Slope

Associated Habitat

Size Class

Left Bank*		Right Bank*
<u>0-3' High</u>		
<input type="checkbox"/>	0 - 20% (0-11°)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	21 - 50% (12-27°)	<input checked="" type="checkbox"/>
<input type="checkbox"/>	51 - 100% + (38-45°)	<input type="checkbox"/>
<input type="checkbox"/>	100%+(46°+)	<input type="checkbox"/>
<u>3-6' High</u>		
<input type="checkbox"/>	0 - 20% (0-11°)	<input type="checkbox"/>
<input type="checkbox"/>	21 - 50% (12-27°)	<input type="checkbox"/>
<input type="checkbox"/>	51 - 100% (38-45°)	<input type="checkbox"/>
<input type="checkbox"/>	100% (46°+)	<input type="checkbox"/>
<u>6' + High</u>		
<input type="checkbox"/>	0 - 20% (0-11°)	<input type="checkbox"/>
<input type="checkbox"/>	21 - 50% (12-27°)	<input type="checkbox"/>
<input type="checkbox"/>	51 - 100% (38-45°)	<input type="checkbox"/>
<input type="checkbox"/>	100% (46°+)	<input type="checkbox"/>

Riparian Vegetation yes [] no
If yes, list: Fruited shrubs
Herbaceous shrubs
Aquatic Vegetation [] yes no
If yes, list:
Associated Wetland yes [] no
If yes, list ID: wetland A567
Aquatic Organisms [] yes no
If yes, list: none observed
Riparian/Terrestrial Organisms [] yes no
If yes, list: not observed
T&E Species [] yes no
If yes, list: none observed

Major >100 ft
 Intermediate >10 ft, <100ft
 Minor <10 ft

Stream Photos Collected ID, Direction, and Description:

680 US/W
681 DS/E
682 RTL/N

Provide Detail of any Evidence of Erosion: _____

Erosion noted in local red areas
Both primary and secondary
channels have head cutting
upstream of their confluence

STREAM FIELD ID: A522

Project Name: Ball Hill Wind Project

Stream Name: unnamed TRIBUTARY

Date: 11/13/15

County: Chautauqua

State: New York

Evaluator(s): B. V. P. T. S.

Data Point ID: DP-619

Stream Characteristics

Bottom Characteristics

Perceptible Flow yes [] no
Flow Regime: [] Perennial Intermittent [] Ephemeral

Substrate Type: Bedrock 0-6"
 Cobble 7-12"
 Gravel 13-24"
 Sand 25-36"
 Silt/Clay 37"+
 Other No Perceptible Depth

Stream Flow Direction North

Width (ft) (water's edge to water's edge) 2'

Width (ft) (bank to bank) 6'-8'

Bank Height and Slope

Associated Habitat

Size Class

Left Bank*

Right Bank*

0-3' High

<input type="checkbox"/>	0 - 20% (0-11°)	<input type="checkbox"/>
<input type="checkbox"/>	21 - 50% (12-27°)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	51 - 100% + (38-45°)	<input checked="" type="checkbox"/>
<input type="checkbox"/>	100%+(46°+)	<input type="checkbox"/>

3-6' High

<input type="checkbox"/>	0 - 20% (0-11°)	<input type="checkbox"/>
<input type="checkbox"/>	21 - 50% (12-27°)	<input type="checkbox"/>
<input type="checkbox"/>	51 - 100% (38-45°)	<input type="checkbox"/>
<input type="checkbox"/>	100% (46°+)	<input type="checkbox"/>

6' + High

<input type="checkbox"/>	0 - 20% (0-11°)	<input type="checkbox"/>
<input type="checkbox"/>	21 - 50% (12-27°)	<input type="checkbox"/>
<input type="checkbox"/>	51 - 100% (38-45°)	<input type="checkbox"/>
<input type="checkbox"/>	100% (46°+)	<input type="checkbox"/>

Riparian Vegetation yes [] no
If yes, list: RT Birch & Pasture
& Bank Apple Trees
Aquatic Vegetation [] yes no
If yes, list:

Major >100 ft
 Intermediate >10 ft, <100ft
 Minor <10 ft

Associated Wetland yes [] no
If yes, list ID:

Wetland A570

Aquatic Organisms [] yes no
If yes, list: none observed

Riparian/Terrestrial Organisms
[] yes no
If yes, list: none observed

T&E Species [] yes no
If yes, list: none observed

Stream Photos Collected ID, Direction, and Description:

690 - S/US

691 - N/DS

692 - W/RTL

Provide Detail of any Evidence of Erosion: _____

Channel is a high gradient
stream that is impacted by
cattle. The channel is generally
unstable throughout the reach

STREAM FIELD ID: ST-A523

Project Name: Ball Hill Wind Project		
Stream Name: <u>unnamed tributary</u>		Date: <u>11/16/2015</u>
County: <u>Chautauqua</u>		State: <u>New York</u>
Evaluator(s): <u>M. Boberg</u> <u>S. Buckenmeyer</u>		Data Point ID: <u>DP-024</u>
Stream Characteristics		Bottom Characteristics
Perceptible Flow <input checked="" type="checkbox"/> yes <input type="checkbox"/> no Flow Regime: <input checked="" type="checkbox"/> Perennial <input type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral Stream Flow Direction <u>North</u> Width (ft) (water's edge to water's edge) <u>2 to 3 feet</u> Width (ft) (bank to bank) <u>2 to 4 feet</u>		Substrate Type: Probed Stream Depth (if water present): <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/> 0 - 6" <input type="checkbox"/> Cobble <input type="checkbox"/> 7 - 12" <input type="checkbox"/> Gravel <input type="checkbox"/> 13 - 24" <input type="checkbox"/> Sand <input type="checkbox"/> 25 - 36" <input checked="" type="checkbox"/> Silt/Clay <input type="checkbox"/> 37" + <input type="checkbox"/> Other <input type="checkbox"/> No Perceptible Depth
Bank Height and Slope		Associated Habitat
Left Bank* <div style="text-align: center;"><u>0-3' High</u></div> <input checked="" type="checkbox"/> 0 - 20% (0-11°) <input checked="" type="checkbox"/> <input type="checkbox"/> 21 - 50% (12-27°) <input type="checkbox"/> <input type="checkbox"/> 51 - 100% + (38-45°) <input type="checkbox"/> <input type="checkbox"/> 100%+(46°+) <input type="checkbox"/> <div style="text-align: center;"><u>3-6' High</u></div> <input type="checkbox"/> 0 - 20% (0-11°) <input type="checkbox"/> <input type="checkbox"/> 21 - 50% (12-27°) <input type="checkbox"/> <input type="checkbox"/> 51 - 100% (38-45°) <input type="checkbox"/> <input type="checkbox"/> 100% (46°+) <input type="checkbox"/> <div style="text-align: center;"><u>6' + High</u></div> <input type="checkbox"/> 0 - 20% (0-11°) <input type="checkbox"/> <input type="checkbox"/> 21 - 50% (12-27°) <input type="checkbox"/> <input type="checkbox"/> 51 - 100% (38-45°) <input type="checkbox"/> <input type="checkbox"/> 100% (46°+) <input type="checkbox"/>	Right Bank* <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Riparian Vegetation <input checked="" type="checkbox"/> yes <input type="checkbox"/> no If yes, list: <u>SCRUB SHRUB</u> Aquatic Vegetation <input type="checkbox"/> yes <input checked="" type="checkbox"/> no If yes, list: Associated Wetland <input checked="" type="checkbox"/> yes <input type="checkbox"/> no If yes, list ID: <u>WL-A578</u> Aquatic Organisms <input type="checkbox"/> yes <input checked="" type="checkbox"/> no If yes, list: Riparian/Terrestrial Organisms <input type="checkbox"/> yes <input checked="" type="checkbox"/> no If yes, list: T&E Species <input type="checkbox"/> yes <input checked="" type="checkbox"/> no If yes, list:
Provide Detail of any Evidence of Erosion: _____ <u>MINOR EROSION</u> _____ _____ _____		Stream Photos Collected ID, Direction, and Description: <u>Photo 097 US/S</u> <u>Photo 098 DS/N</u> <u>Photo 099 RT/E</u> _____ _____

STREAM FIELD ID: ST-A528

Project Name: Ball Hill Wind Project																																																		
Stream Name: <u>unnamed tributary</u>	Date: <u>11/20/15</u>																																																	
County: <u>Chautauqua</u>	State: <u>New York</u>																																																	
Evaluator(s): <u>M. Boberg S. Buckenmeyer</u>	Data Point ID: <u>658</u>																																																	
Stream Characteristics	Bottom Characteristics																																																	
Perceptible Flow <input checked="" type="checkbox"/> yes <input type="checkbox"/> no	Substrate Type:																																																	
Flow Regime: <input checked="" type="checkbox"/> Perennial <input type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral	Probed Stream Depth (if water present):																																																	
Stream Flow Direction <u>WEST</u>	<input type="checkbox"/> Bedrock	<input type="checkbox"/> 0 - 6"																																																
Width (ft) (water's edge to water's edge) <u>6-8'</u>	<input checked="" type="checkbox"/> Cobble	<input checked="" type="checkbox"/> 7 - 12"																																																
Width (ft) (bank to bank) <u>8-10'</u>	<input type="checkbox"/> Gravel	<input type="checkbox"/> 13 - 24"																																																
	<input type="checkbox"/> Sand	<input type="checkbox"/> 25 - 36"																																																
	<input checked="" type="checkbox"/> Silt/Clay	<input type="checkbox"/> 37" +																																																
	<input type="checkbox"/> Other	<input type="checkbox"/> No Perceptible Depth																																																
Bank Height and Slope	Associated Habitat	Size Class																																																
<table style="width:100%; border: none;"> <tr> <td style="width: 33%; text-align: center;">Left Bank*</td> <td style="width: 33%;"></td> <td style="width: 33%; text-align: center;">Right Bank*</td> </tr> <tr> <td colspan="3" style="text-align: center;"><u>0-3' High</u></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>0 - 20% (0-11°)</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td>21 - 50% (12-27°)</td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td>51 - 100% + (38-45°)</td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td>100%+(46°+)</td> <td><input type="checkbox"/></td> </tr> <tr> <td colspan="3" style="text-align: center;"><u>3-6' High</u></td> </tr> <tr> <td><input type="checkbox"/></td> <td>0 - 20% (0-11°)</td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td>21 - 50% (12-27°)</td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td>51 - 100% (38-45°)</td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td>100% (46°+)</td> <td><input type="checkbox"/></td> </tr> <tr> <td colspan="3" style="text-align: center;"><u>6' + High</u></td> </tr> <tr> <td><input type="checkbox"/></td> <td>0 - 20% (0-11°)</td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td>21 - 50% (12-27°)</td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td>51 - 100% (38-45°)</td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td>100% (46°+)</td> <td><input type="checkbox"/></td> </tr> </table>	Left Bank*		Right Bank*	<u>0-3' High</u>			<input checked="" type="checkbox"/>	0 - 20% (0-11°)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	21 - 50% (12-27°)	<input type="checkbox"/>	<input type="checkbox"/>	51 - 100% + (38-45°)	<input type="checkbox"/>	<input type="checkbox"/>	100%+(46°+)	<input type="checkbox"/>	<u>3-6' High</u>			<input type="checkbox"/>	0 - 20% (0-11°)	<input type="checkbox"/>	<input type="checkbox"/>	21 - 50% (12-27°)	<input type="checkbox"/>	<input type="checkbox"/>	51 - 100% (38-45°)	<input type="checkbox"/>	<input type="checkbox"/>	100% (46°+)	<input type="checkbox"/>	<u>6' + High</u>			<input type="checkbox"/>	0 - 20% (0-11°)	<input type="checkbox"/>	<input type="checkbox"/>	21 - 50% (12-27°)	<input type="checkbox"/>	<input type="checkbox"/>	51 - 100% (38-45°)	<input type="checkbox"/>	<input type="checkbox"/>	100% (46°+)	<input type="checkbox"/>	Riparian Vegetation <input checked="" type="checkbox"/> yes <input type="checkbox"/> no If yes, list: <u>mixed hardwoods</u> Aquatic Vegetation <input type="checkbox"/> yes <input checked="" type="checkbox"/> no If yes, list: Associated Wetland <input type="checkbox"/> yes <input checked="" type="checkbox"/> no If yes, list ID: Aquatic Organisms <input type="checkbox"/> yes <input checked="" type="checkbox"/> no If yes, list: Riparian/Terrestrial Organisms <input type="checkbox"/> yes <input checked="" type="checkbox"/> no If yes, list: T&E Species <input type="checkbox"/> yes <input checked="" type="checkbox"/> no If yes, list:	<input type="checkbox"/> Major >100 ft <input checked="" type="checkbox"/> Intermediate >10 ft, <100ft <input checked="" type="checkbox"/> Minor <10 ft
Left Bank*		Right Bank*																																																
<u>0-3' High</u>																																																		
<input checked="" type="checkbox"/>	0 - 20% (0-11°)	<input checked="" type="checkbox"/>																																																
<input type="checkbox"/>	21 - 50% (12-27°)	<input type="checkbox"/>																																																
<input type="checkbox"/>	51 - 100% + (38-45°)	<input type="checkbox"/>																																																
<input type="checkbox"/>	100%+(46°+)	<input type="checkbox"/>																																																
<u>3-6' High</u>																																																		
<input type="checkbox"/>	0 - 20% (0-11°)	<input type="checkbox"/>																																																
<input type="checkbox"/>	21 - 50% (12-27°)	<input type="checkbox"/>																																																
<input type="checkbox"/>	51 - 100% (38-45°)	<input type="checkbox"/>																																																
<input type="checkbox"/>	100% (46°+)	<input type="checkbox"/>																																																
<u>6' + High</u>																																																		
<input type="checkbox"/>	0 - 20% (0-11°)	<input type="checkbox"/>																																																
<input type="checkbox"/>	21 - 50% (12-27°)	<input type="checkbox"/>																																																
<input type="checkbox"/>	51 - 100% (38-45°)	<input type="checkbox"/>																																																
<input type="checkbox"/>	100% (46°+)	<input type="checkbox"/>																																																
Provide Detail of any Evidence of Erosion: _____ <u>Minor erosion on banks</u> <u>evidence of recent flood</u> <u>downstream</u>	Stream Photos Collected ID, Direction, and Description: <u>Photo 743 US/E</u> <u>Photo 744 DS/W</u> <u>Photo 745 RTL/S</u>																																																	

Stream Data Form

Stream Field ID: Stream A529
 Data Point ID: DP-1666 Date: 5/20/16
 Project Name: Ball Hill Wind Project
 Evaluator(s): Ben Urts, Nicole Dutcher
 County: Chautauqua State: NY
 Stream Name: Unnamed trib to Branch Creek
 State Classified: Yes No Not Applicable
 If Yes, Classification: _____
 Lat: 42.407665 Long: -79.114551

Hydrologic Characteristics

Flow Regime: Perennial Intermittent Ephemeral
 Surface Water: Present Absent
 Perceptible Flow: Present Absent
 Water Depth at Thalweg: 4" Wetted Perimeter Width: 1.0'
 Flow/Gradient Direction: North

Geomorphologic Characteristics

Primary Substrate Class: Silt/Clay

		Width	
		at DP	Max
OHWM		<u>5.0'</u>	<u>5.0'</u>
	Top of Bank	<u>10.0'</u>	<u>10.0'</u>
		Left	Right
Bank Slope (H:V)		<u>3/2.5</u>	<u>3/2.5</u>

Bank Stability Summary

Left Bank: No areas of bank instability / fully vegetated

Right Bank: No areas of bank instability / fully vegetated

Habitat Characteristics

Aquatic Vegetation Present: Yes No
 If Yes, Describe: _____
 Aquatic Organisms Observed: Yes No
 If Yes, Describe: _____
 Terrestrial Organisms Observed: Yes No
 If Yes, Describe: _____

Stream Data Form

Data Point ID: DP - 6666

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Right: 0-2' - FAC/Emergent veg.
2'-150' - Cultivated row crops (wheat)

Left: 0-5' - FAC/Emergent veg.
5'-150' - Cultivated row crops (wheat)

Associated Wetland Present: Yes No

If Yes, Describe: Wetland A597

Associated Artificial Drain Present: Yes No

If Yes, ID: AD-AS10

Photos

	Direction	Notes/Additional Description
Upstream	S	
Downstream	N	
Cross Channel	W	RTL

Jurisdictional Connectivity Notes:

Receives hydrology from gradient wetland and discharges to
unnamed tributary of Branch Creek

Supplemental Notes & Comments:

Stream Data Form

Stream Field ID: ST-A530
Data Point ID: DP-667 **Date:** 5/23/16
Project Name: Ball Hill Wind Project
Evaluator(s): Ben Virts and Nicole Dutcher
County: Chautauqua **State:** NY
Stream Name: Unnamed trib to Branch Creek
State Classified: Yes No Not Applicable
 If Yes, Classification: _____
Lat: 42.408745 **Long:** -79.110409

Hydrologic Characteristics

Flow Regime: Perennial Intermittent Ephemeral
Surface Water: Present Absent
Perceptible Flow: Present Absent
Water Depth at Thalweg: 2 in **Wetted Perimeter Width:** 4ft
Flow/Gradient Direction: East

Geomorphologic Characteristics

Primary Substrate Class: Silt/Clay

		Width	
		at DP	Max
OHWM		5ft	5ft
Top of Bank		8ft	10ft
		Left	Right
Bank Slope (H:V)		3/4	1/0.5

Bank Stability Summary

Left Bank: Moderate erosion w/in channel, more severe @ outside meander bends

Right Bank: Minor erosion, stream has good access to flood plain

Habitat Characteristics

Aquatic Vegetation Present: Yes No
 If Yes, Describe: _____
Aquatic Organisms Observed: Yes No
 If Yes, Describe: _____
Terrestrial Organisms Observed: Yes No
 If Yes, Describe: _____

Stream Data Form

Data Point ID: DP - 1067

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Right: Hardwood forest w/ selective timberharvest (beech)

Left: 0-80 + 90-150 = Hardwood forest

~~90-150~~ 80-90: dirt access road

Associated Wetland Present: Yes No

If Yes, Describe: Wetland A598

Associated Artificial Drain Present: Yes No

If Yes, ID: _____

Photos

	Direction	Notes/Additional Description
Upstream	S	
Downstream	N	
Cross Channel	W	RTL

Jurisdictional Connectivity Notes:

Supplemental Notes & Comments:

Stream Data Form

Stream Field ID: STREAM A531
Data Point ID: DP-685 **Date:** 5/24/16
Project Name: Ball Hill Wind Project
Evaluator(s): B. Vietz
County: Chautauqua **State:** NY
Stream Name: Unnamed tributary of Silver Creek
State Classified: Yes No Not Applicable
 If Yes, Classification: _____
Lat: 42.433901 **Long:** -79.130705

Hydrologic Characteristics

Flow Regime: Perennial Intermittent Ephemeral
Surface Water: Present Absent
Perceptible Flow: Present Absent
Water Depth at Thalweg: 2"-4" **Wetted Perimeter Width:** 4'
Flow/Gradient Direction: EAST

Geomorphologic Characteristics

Primary Substrate Class: Gravel

		Width	
		at DP	Max
OHWM		7'	16'
Top of Bank		12'	18'
		Left	Right
Bank Slope (H:V)		1:1	1:1

Bank Stability Summary

Left Bank: Bank is stable with very minor examples of minor erosion present
Right Bank: Bank is stable with very minor examples of minor erosion present

Habitat Characteristics

Aquatic Vegetation Present: Yes No
 If Yes, Describe: _____
Aquatic Organisms Observed: Yes No
 If Yes, Describe: Minnows
Terrestrial Organisms Observed: Yes No
 If Yes, Describe: _____

Stream Data Form

Data Point ID: DP - 685

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Right: 0'-150' Hardwood Forest - mature hemlocks

Left: 0'-150' Hardwood Forest - mature hemlocks

Associated Wetland Present: Yes No

If Yes, Describe: Wetland A608

Associated Artificial Drain Present: Yes No

If Yes, ID: _____

Photos

	Direction	Notes/Additional Description
Upstream	W	
Downstream	E	
Cross Channel	N	RTL

Jurisdictional Connectivity Notes:

Tributary of Silver Creek

Supplemental Notes & Comments:

Stream Data Form

Stream Field ID: Stream A532
Data Point ID: DP-686 **Date:** 5/24/16
Project Name: Ball Hill Wind Project
Evaluator(s): B. Virts
County: Chautauqua **State:** NY
Stream Name: unnamed tributary of Silver Creek
State Classified: Yes No Not Applicable
 If Yes, Classification: _____
Lat: 42.434037 **Long:** -79.130850

Hydrologic Characteristics

Flow Regime: Perennial Intermittent Ephemeral
Surface Water: Present Absent
Perceptible Flow: Present Absent
Water Depth at Thalweg: 4" **Wetted Perimeter Width:** 4'
Flow/Gradient Direction: EAST

Geomorphologic Characteristics

Primary Substrate Class: Gravel

		Width	
		at DP	Max
OHWM Top of Bank	OHWM	6'	8'
	Top of Bank	8'	10'
Bank Slope (H:V)		Left	Right
		1:1	1:1

Bank Stability Summary

Left Bank: Bank stable, no erosion present

Right Bank: Bank stable, no erosion present

Habitat Characteristics

Aquatic Vegetation Present: Yes No
 If Yes, Describe: _____
Aquatic Organisms Observed: Yes No
 If Yes, Describe: _____
Terrestrial Organisms Observed: Yes No
 If Yes, Describe: _____

Stream Data Form

Data Point ID: DP - 686

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Right: 0'-150' Mature Hemlock Forest

Left: 0'-150' mature Hemlock Forest

Associated Wetland Present: Yes No

If Yes, Describe: Wetland A608

Associated Artificial Drain Present: Yes No

If Yes, ID: _____

Photos

	Direction	Notes/Additional Description
Upstream	W	
Downstream	E	
Cross Channel	N	RTL

Jurisdictional Connectivity Notes:

Tributary of Silver Creek

Supplemental Notes & Comments:

Stream Data Form

Stream Field ID: Stream AS33
Data Point ID: DP- 707 **Date:** 5/26/16
Project Name: Ball Hill Wind Project
Evaluator(s): B. Virts, S. Buckenmeyer
County: Chautauqua **State:** NY
Stream Name: Silver Creek
State Classified: Yes No Not Applicable
 If Yes, Classification: A
Lat: 42.451881 **Long:** -79.103028

Hydrologic Characteristics

Flow Regime: Perennial Intermittent Ephemeral
Surface Water: Present Absent
Perceptible Flow: Present Absent
Water Depth at Thalweg: 2.05' **Wetted Perimeter Width:** 7'
Flow/Gradient Direction: EAST

Geomorphologic Characteristics

Primary Substrate Class: Gravel (Large)

		Width	
		at DP	Max
OHWM		21'	30'
Top of Bank		23'	30'
		Left	Right
Bank Slope (H:V)		2:1	2:1

Bank Stability Summary

Left Bank: minor Bank erosion with significant disturbance near stream crossing
Right Bank: minor Bank erosion with significant disturbance near stream crossing

Habitat Characteristics

Aquatic Vegetation Present: Yes No
 If Yes, Describe: _____
Aquatic Organisms Observed: Yes No
 If Yes, Describe: Caddis fly, Stonefly, Mayfly, Red backed Salamander, minnows
Terrestrial Organisms Observed: Yes No
 If Yes, Describe: _____

Stream Data Form

Data Point ID: DP - 707

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Right: Forested and shrub Riparian 0'-150'

Left: Forested and shrub Riparian species 0'-150'

Associated Wetland Present: Yes No

If Yes, Describe: _____

Associated Artificial Drain Present: Yes No

If Yes, ID: AD-514

Photos

	Direction	Notes/Additional Description
Upstream	W	
Downstream	E	
Cross Channel	N	RTL

Jurisdictional Connectivity Notes:

Supplemental Notes & Comments:

Stream appears to have regular maintenance dredging
upstream of the culvert crossing and has a large
concrete apron within the stream down gradient
of the culvert crossing.

Stream Data Form

Stream Field ID: STREAM A534
Data Point ID: DP- 712 **Date:** 5/26/16
Project Name: Ball Hill Wind Project
Evaluator(s): B. V. RITS, S. Buckenmeyer
County: Chautauqua **State:** NY
Stream Name: Unnamed Tributary of Silver Creek
State Classified: Yes No Not Applicable
 If Yes, Classification: A
Lat: 42.456515 **Long:** -79.104645

Hydrologic Characteristics

Flow Regime: Perennial Intermittent Ephemeral
Surface Water: Present Absent
Perceptible Flow: Present Absent
Water Depth at Thalweg: 6" **Wetted Perimeter Width:** 7'
Flow/Gradient Direction: EAST

Geomorphologic Characteristics

Primary Substrate Class: Gravel / Cobble

		Width	
		at DP	Max
OHWM Top of Bank	OHWM	13'	15'
	Top of Bank	9'	25'
		Left	Right
		Bank Slope (H:V)	2:2.5'

Bank Stability Summary

Left Bank: Left bank is stable upstream of existing culvert and unstable/incised below
Right Bank: Right Bank is stable upstream of existing culvert and unstable/incised below

Habitat Characteristics

Aquatic Vegetation Present: Yes No
 If Yes, Describe: _____
Aquatic Organisms Observed: Yes No
 If Yes, Describe: Caddis flies, Stone flies
Terrestrial Organisms Observed: Yes No
 If Yes, Describe: _____

Stream Data Form

Data Point ID: DP-712

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Right: 0'-25' shrub riparian species vegetation and 75'-150' hay field

Left: 0'-75' shrub and forest buffer area with an area mowed for beehives, 75'-150' hay field

Associated Wetland Present: Yes No

If Yes, Describe: _____

Associated Artificial Drain Present: Yes No

If Yes, ID: AD-517

Photos

	Direction	Notes/Additional Description
Upstream	W	
Downstream	E	
Cross Channel	N	RTL

Jurisdictional Connectivity Notes:

Supplemental Notes & Comments:

Stream Data Form

Stream Field ID: STREAM A535
Data Point ID: DP- 719 **Date:** 5/27/16
Project Name: Ball Hill Wind Project
Evaluator(s): B. Virts N. Dutcher
County: Chautauqua **State:** NY
Stream Name: U.T. of Silver-Creek
State Classified: Yes No Not Applicable
 If Yes, Classification: _____
Lat: 42.439573 **Long:** -79.130699

Hydrologic Characteristics

Flow Regime: Perennial Intermittent Ephemeral
Surface Water: Present Absent
Perceptible Flow: Present Absent
Water Depth at Thalweg: 46" **Wetted Perimeter Width:** 1'
Flow/Gradient Direction: North

Geomorphologic Characteristics

Primary Substrate Class: Silt

		Width	
		at DP	Max
OHWM Top of Bank		2'	3'
		4'	5'
		Left	Right
		6":5'	6":5'

Bank Stability Summary

Left Bank: Bank is vegetated and very stable

Right Bank: Bank is vegetated and very stable

Habitat Characteristics

Aquatic Vegetation Present: Yes No
 If Yes, Describe: _____
Aquatic Organisms Observed: Yes No
 If Yes, Describe: _____
Terrestrial Organisms Observed: Yes No
 If Yes, Describe: _____

Stream Data Form

Data Point ID: DP - 719

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Right: within Power Row - herbaceous FACultative and
wetter plants - within forest, shrub and tree species

Left: ↓

Associated Wetland Present: Yes No

If Yes, Describe: wetland A623 (PFO, Pem within Row)

Associated Artificial Drain Present: Yes No

If Yes, ID: _____

Photos

	Direction	Notes/Additional Description
Upstream	S	
Downstream	N	
Cross Channel	W	RTL

Jurisdictional Connectivity Notes:

Supplemental Notes & Comments:

Stream Data Form

Stream Field ID: Stream A537
Data Point ID: DP-747 **Date:** 6/8/16
Project Name: Ball Hill Wind Project
Evaluator(s): B. Viers, N. Dutcher
County: Chautauqua **State:** NY
Stream Name: W. of Silver Creek
State Classified: Yes No Not Applicable
 If Yes, Classification: _____
Lat: 42.437886 **Long:** -79.121326

Hydrologic Characteristics

Flow Regime: Perennial Intermittent Ephemeral
Surface Water: Present Absent
Perceptible Flow: Present Absent
Water Depth at Thalweg (ft.): 26"
Wetted Perimeter Width (ft.): 2'
Flow/Gradient Direction: EAST / Northeast

Geomorphologic Characteristics

Primary Substrate Class: Gravel | Silt

		Width (ft.)	
		at DP	Max
OHWM		2'	5'
Top of Bank		4'	12'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:

Left: 1' : 2.5'

Right: 1' : 2.5'

Bank Stability Summary

Right: Stream banks are heavily impacted by livestock, have vertical eroding banks, and are nearly void of vegetation

Left: Both left and right banks are very unstable throughout the reach

Stream Data Form

Data Point ID: DP-747

Habitat Characteristics

Aquatic Vegetation Present: Yes No

If Yes, Describe: _____

Aquatic Organisms Observed: Yes No

If Yes, Describe: _____

Terrestrial Organisms Observed: Yes No

If Yes, Describe: _____

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Right: 0'-150' Actively grazed Pasture

Left: 0'-50' Actively grazed pasture

50'-70' Dirt Access Road

70'-150' Actively grazed Pasture

Associated Wetland Present: Yes No

If Yes, ID: Wetland A635

Associated Artificial Drain Present: Yes No

If Yes, ID: AD-521

Photos

	Direction	Notes/Additional Description
Upstream	S	
Downstream	N	
Cross Channel	W	RTL

Jurisdictional Connectivity Notes:

Supplemental Notes & Comments:

Stream Data Form

Stream Field ID: ST-A538
 Data Point ID: DP-750 Date: 6/8/16
 Project Name: Ball Hill Wind Project
 Evaluator(s): Ben Lits and Nicole Dutcher
 County: Chautauque State: NY
 Stream Name: unnamed tributary to Silver Creek
 State Classified: Yes No Not Applicable
 If Yes, Classification: _____
 Lat: 42.447305 Long: -79.122743

Hydrologic Characteristics

Flow Regime: Perennial Intermittent Ephemeral
 Surface Water: Present Absent
 Perceptible Flow: Present Absent
 Water Depth at Thalweg: 4" Wetted Perimeter Width: 2'
 Flow/Gradient Direction: East

Geomorphologic Characteristics

Primary Substrate Class: silt / gravel / cobbles

	Width	
	at DP	Max
OHWM	7'	8'
Top of Bank	9'	10'
	Left	Right
Bank Slope (H:V)	2:1	2:1

Bank Stability Summary

Left Bank: Moderately stable, some ferns stabilizing bank but some erosion during highflow periods
 Right Bank: ↑ same

Habitat Characteristics

Aquatic Vegetation Present: Yes No
 If Yes, Describe: _____
 Aquatic Organisms Observed: Yes No
 If Yes, Describe: _____
 Terrestrial Organisms Observed: Yes No
 If Yes, Describe: _____

Stream Data Form

Data Point ID: DP-750

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Right: 0-10' Floodplain wetland

10-150' Upland mixed deciduous/coniferous forest with understory

Left: 0-5' Floodplain wetland

5'-150' Upland mixed deciduous/Coniferous Forest w/ understory

Associated Wetland Present: Yes No

If Yes, Describe: Wetland AS48

Associated Artificial Drain Present: Yes No

If Yes, ID: _____

Photos

	Direction	Notes/Additional Description
Upstream	W	
Downstream	E	
Cross Channel	N	R+L

Jurisdictional Connectivity Notes:

Supplemental Notes & Comments:

Stream starts within wetland AS48 and is outlet for groundwater discharge (water present year round).

Stream Data Form

Stream Field ID: ST-A 539
 Data Point ID: DP-761 Date: 6/9/16
 Project Name: Ball Hill Wind Project
 Evaluator(s): Ben Vits and Nicole Dutcher
 County: Chautauqua State: NY
 Stream Name: U.T. of Walnut Creek
 State Classified: Yes No Not Applicable
 If Yes, Classification: _____
 Lat: 42.478907 Long: -79.149567

Hydrologic Characteristics

Flow Regime: Perennial Intermittent Ephemeral
 Surface Water: Present Absent
 Perceptible Flow: Present Absent
 Water Depth at Thalweg (ft.): N/A
 Wetted Perimeter Width (ft.): N/A
 Flow/Gradient Direction: Northwest

Geomorphologic Characteristics

Primary Substrate Class: Silt Some cobbles

	Width (ft.)	
	at DP	Max
OHWM	<u>N/A</u>	<u>N/A</u>
Top of Bank	<u>3'</u>	<u>10'</u>

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
 Left: 1:1
 Right: 1:1

Bank Stability Summary

Right: Somewhat stable, some nests but evidence of erosion and undercutting during high flow

 Left: Same as above ↑

Stream Data Form

Data Point ID: DP-761

Habitat Characteristics

Aquatic Vegetation Present: Yes No

If Yes, Describe: _____

Aquatic Organisms Observed: Yes No

If Yes, Describe: _____

Terrestrial Organisms Observed: Yes No

If Yes, Describe: _____

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Right: 0-150' : Deciduous forest / secondary growth,
no shrub/scrub layer, little herbaceous layer

Left: 0-80' Deciduous / secondary growth forest, little understory
80-150' - cultivated / mowed hay field

Associated Wetland Present: Yes No

If Yes, ID: _____

Associated Artificial Drain Present: Yes No

If Yes, ID: _____

Photos

	Direction	Notes/Additional Description
Upstream	E	
Downstream	W	
Cross Channel	S	Rtbl

Jurisdictional Connectivity Notes:

Supplemental Notes & Comments:

Stream Data Form

Stream Field ID: Stream ST-A540
Data Point ID: DP-762 **Date:** 0/9/16
Project Name: Ball Hill Wind Project
Evaluator(s): Ben Virts and Nicole Dutcher
County: Chautauqua **State:** NY
Stream Name: W. of Walnut Creek
State Classified: Yes No Not Applicable
 If Yes, Classification: _____
Lat: 42.479320 **Long:** -79.149120

Hydrologic Characteristics

Flow Regime: Perennial Intermittent Ephemeral
Surface Water: Present Absent
Perceptible Flow: Present Absent
Water Depth at Thalweg (ft.): 3"
Wetted Perimeter Width (ft.): 6"
Flow/Gradient Direction: West

Geomorphologic Characteristics

Primary Substrate Class: Bedrock

		Width (ft.)	
		at DP	Max
OHWM		3'	6'
Top of Bank		20'	40'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: 90%
Right: 90%

Bank Stability Summary

Right: Moderately stable, deep channel and very steep drop off but being held up by bedrock layers and roots of trees growing on edge of top of bank and on sides of bank
Left: Same as right side ↑

Stream Data Form

Data Point ID: 762

Habitat Characteristics

Aquatic Vegetation Present: Yes No
 If Yes, Describe: _____
 Aquatic Organisms Observed: Yes No
 If Yes, Describe: _____
 Terrestrial Organisms Observed: Yes No
 If Yes, Describe: Birds

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):
 Right: 0'-150' - Upland deciduous forest a few conifers, little understory and ground cover
 Left: 0'-150' - Upland deciduous forest a few conifers (Hemlock) mixed in, little understory and ground cover

Associated Wetland Present: Yes No
 If Yes, ID: _____
 Associated Artificial Drain Present: Yes No
 If Yes, ID: _____

Photos

	Direction	Notes/Additional Description
Upstream	E	
Downstream	W	
Cross Channel	S	RTL

Jurisdictional Connectivity Notes:

Supplemental Notes & Comments:

- Very large perennial channel with some upland islands throughout.
 During flow events water scours bedrock on banks.
 - Stream has ~~an~~ eroded large area, bank is about 20' wide but gorges/runne area is a total of about 60' including flood plain
 - 90% bank slope at data point, slope turns into more of 45% slope up and down stream of data point but bank vertical height is still about 20'-30' 2
 - about 60' drop just ~~inside~~ about 10' inside of study area, w/ waterfall

Stream Data Form

Stream Field ID: ST-AS41
 Data Point ID: DP-765 Date: 6/9/16
 Project Name: Ball Hill Wind Project
 Evaluator(s): Ben Virts and Nicole Dutcher
 County: Chautauqua State: NY
 Stream Name: h.t. of Walnut creek
 State Classified: Yes No Not Applicable
 If Yes, Classification: _____
 Lat: 42.481276 Long: -79.149353

Hydrologic Characteristics

Flow Regime: Perennial Intermittent Ephemeral
 Surface Water: Present Absent
 Perceptible Flow: Present Absent
 Water Depth at Thalweg (ft.): N/A
 Wetted Perimeter Width (ft.): N/A
 Flow/Gradient Direction: North

Geomorphologic Characteristics

Primary Substrate Class: silt, gravel, cobble

	Width (ft.)	
	at DP	Max
OHWM	10'	7'
Top of Bank	7'	9'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:

Left: 1:1
 Right: 1:1

Bank Stability Summary

Right: evidence of erosion, sloughing and undercutting at meander points, little ground tree vegetation to stabilize bank
 Left: Same as above

Stream Data Form

Data Point ID: 765

Habitat Characteristics

Aquatic Vegetation Present: Yes No

If Yes, Describe: _____

Aquatic Organisms Observed: Yes No

If Yes, Describe: _____

Terrestrial Organisms Observed: Yes No

If Yes, Describe: _____

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Right: 0-150' - Upland deciduous secondary growth
Forest - mostly Acer Saccharum

Left: 0-150' - Upland mixed conifers (E. Hemlock)
and deciduous (Yellow Birch)

Associated Wetland Present: Yes No

If Yes, ID: _____

Associated Artificial Drain Present: Yes No

If Yes, ID: _____

Photos

	Direction	Notes/Additional Description
Upstream	E	
Downstream	W	
Cross Channel	S	Rtbl

Jurisdictional Connectivity Notes:

Supplemental Notes & Comments:

Stream Data Form

Stream Field ID: ST-A542
 Data Point ID: DP-766 Date: 6/9/16
 Project Name: Ball Hill Wind Project
 Evaluator(s): Ben Virts and Nicole Dutcher
 County: Chautauqua State: NY
 Stream Name: h.t. of Walnut Creek
 State Classified: Yes No Not Applicable
 If Yes, Classification: _____
 Lat: 42.482581 Long: -79.149368

Hydrologic Characteristics

Flow Regime: Perennial Intermittent Ephemeral
 Surface Water: Present Absent
 Perceptible Flow: Present Absent
 Water Depth at Thalweg (ft.): N/A
 Wetted Perimeter Width (ft.): N/A
 Flow/Gradient Direction: North

Geomorphologic Characteristics

Primary Substrate Class: silt / rock

	Width (ft.)	
	at DP	Max
OHWM	3'	3'
Top of Bank	5'	7'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:

Left: 1:1

Right: 1:1

Bank Stability Summary

Right: Stable at data point and upstream, becomes very steep / large vertical banks downstream and off site.

Left: Same as above T

Stream Data Form

Data Point ID: 746

Habitat Characteristics

Aquatic Vegetation Present: Yes No

If Yes, Describe: _____

Aquatic Organisms Observed: Yes No

If Yes, Describe: _____

Terrestrial Organisms Observed: Yes No

If Yes, Describe: _____

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Right: 0-150' - Deciduous hardwood forest,
sugar maple, yellow birch and shag bark hickory

Left: Same as above ↑

Associated Wetland Present: Yes No

If Yes, ID: _____

Associated Artificial Drain Present: Yes No

If Yes, ID: _____

Photos

	Direction	Notes/Additional Description
Upstream	S	
Downstream	N	
Cross Channel	E	R to L

Jurisdictional Connectivity Notes:

Ephemeral stream within study area, turns into intermittent
channel off-site, & flowing toward stream AS40.

Supplemental Notes & Comments:

Stream Data Form

Stream Field ID: ST-A543
 Data Point ID: DP-7107 Date: 6/10/16
 Project Name: Ball Hill Wind Project
 Evaluator(s): Ben Vito and Nicole Dierker
 County: Chautauqua State: NY
 Stream Name: Unnamed Tributary of Walnut Creek
 State Classified: Yes No Not Applicable
 If Yes, Classification: _____
 Lat: 42.483904 Long: -79.149354

Hydrologic Characteristics

Flow Regime: Perennial Intermittent Ephemeral
 Surface Water: Present Absent
 Perceptible Flow: Present Absent
 Water Depth at Thalweg (ft.): N/A
 Wetted Perimeter Width (ft.): N/A
 Flow/Gradient Direction: North

Geomorphologic Characteristics

Primary Substrate Class: Rock

	Width (ft.)	
	at DP	Max
OHWB	4'	5'
Top of Bank	6'	10'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:

Left: 1:1

Right: 1:1

Bank Stability Summary

Right: ~~Stable~~ Slightly stable, bedrock and roots holding it up but minor scarring and undercutting at meandering points

Left: Same as above.

Stream Data Form

Data Point ID: 767

Habitat Characteristics

Aquatic Vegetation Present: Yes No
 If Yes, Describe: _____
 Aquatic Organisms Observed: Yes No
 If Yes, Describe: _____
 Terrestrial Organisms Observed: Yes No
 If Yes, Describe: Birds, chipmunks

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):
 Right: 0-150' - Deciduous hardwood forest, about 80% canopy cover w/ little understory and ground cover
 Left: Same as above ↑
steep slope up starting around 100'

Associated Wetland Present: Yes No
 If Yes, ID: _____
 Associated Artificial Drain Present: Yes No
 If Yes, ID: _____

Photos

	Direction	Notes/Additional Description
Upstream	S	
Downstream	N	
Cross Channel	W	RDL

Jurisdictional Connectivity Notes:

Supplemental Notes & Comments:

Deep channel up stream, alluvial fans where major turns are w/ large sediment deposit
About 3 (sinuosity) bends in 100'

Stream Data Form

Stream Field ID: AS44
Data Point ID: DP-770 **Date:** 6/10/16
Project Name: Ball Hill Wind Project
Evaluator(s): Ben Vins on Nicole Dutcher
County: Chautauqua **State:** NY
Stream Name: Unnamed Tributary of Walnut Creek
State Classified: Yes No Not Applicable
 If Yes, Classification: _____
Lat: 42.484673 **Long:** -79.149581

Hydrologic Characteristics

Flow Regime: Perennial Intermittent Ephemeral
Surface Water: Present Absent
Perceptible Flow: Present Absent
Water Depth at Thalweg (ft.): N/A
Wetted Perimeter Width (ft.): N/A
Flow/Gradient Direction: West

Geomorphologic Characteristics

Primary Substrate Class: Silt

	Width (ft.)	
	at DP	Max
OHWM	1'	2'
Top of Bank	2'	3'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:

Left: 1:1
 Right: 1:1

Bank Stability Summary

Right: Very Steep, bank slope about 45% with not a high bank, bank stabilized by herbaceous vegetation

Left: Same as above ↑

Stream Data Form

Data Point ID: 770

Habitat Characteristics

Aquatic Vegetation Present: Yes No
 If Yes, Describe: _____
 Aquatic Organisms Observed: Yes No
 If Yes, Describe: _____
 Terrestrial Organisms Observed: Yes No
 If Yes, Describe: Birds, chipmunks

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):
 Right: 0-150' Deciduous hardwood forest, with little shrub/scrub layer but 100% ground cover
 Left: Same as above ↑

Associated Wetland Present: Yes No
 If Yes, ID: A640
 Associated Artificial Drain Present: Yes No
 If Yes, ID: _____

Photos

	Direction	Notes/Additional Description
Upstream	<u>S</u>	
Downstream	<u>N</u>	
Cross Channel	<u>W</u>	<u>R to L</u>

Jurisdictional Connectivity Notes:

Ephemeral drain runs to wetland A640 that then drains off site to dike along railroad which off site most likely drains to perennial stream to the west.

Supplemental Notes & Comments:

Stream Data Form

Stream Field ID: A 545
 Data Point ID: DP-771 Date: 10/15/16
 Project Name: Ball Hill Wind Project
 Evaluator(s): Ben Virtz and Nicole Dutcher
 County: Chautauqua State: NY
 Stream Name: Unnamed tributary of Walnut Creek
 State Classified: Yes No Not Applicable
 If Yes, Classification: _____
 Lat: 42.485990 Long: -79.149661

Hydrologic Characteristics

Flow Regime: Perennial Intermittent Ephemeral
 Surface Water: Present Absent
 Perceptible Flow: Present Absent
 Water Depth at Thalweg (ft.): 6" (0.5 ft)
 Wetted Perimeter Width (ft.): 3'
 Flow/Gradient Direction: North

Geomorphologic Characteristics

Primary Substrate Class: Silt / cobbles / gravel

	Width (ft.)	
	at DP	Max
OHWB	3'	4'
Top of Bank	4'	6'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
 Left: 1:2
 Right: 1:3

Bank Stability Summary

Right: Moderately stable, some erosion due to bank slope and height, no real herbaceous veg holding substrate evidence of undercutting at meander points
 Left: _____

Stream Data Form

Data Point ID: 771

Habitat Characteristics

Aquatic Vegetation Present: Yes No

If Yes, Describe: _____

Aquatic Organisms Observed: Yes No

If Yes, Describe: _____

Terrestrial Organisms Observed: Yes No

If Yes, Describe: Birds + chipmunks

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Right: 0'-150' - Deciduous hardwood forest

Left: 0'-150' - Deciduous hardwood forest

Associated Wetland Present: Yes No

If Yes, ID: _____

Associated Artificial Drain Present: Yes No

If Yes, ID: _____

Photos

	Direction	Notes/Additional Description
Upstream	S	
Downstream	N	
Cross Channel	W	R to L

Jurisdictional Connectivity Notes:

Supplemental Notes & Comments:

Ephemeral upstream from datapoint and
intermittent downstream.

Stream Data Form

Stream Field ID: A546
Data Point ID: DP-772 **Date:** 6/10/16
Project Name: Ball Hill Wind Project
Evaluator(s): Ben Virts and Nicole Dutcher
County: Chautauqua **State:** NY
Stream Name: Unnamed tributary of Walnut Creek
State Classified: Yes No Not Applicable
 If Yes, Classification: _____
Lat: 42.487339 **Long:** -79.149348

Hydrologic Characteristics

Flow Regime: Perennial Intermittent Ephemeral
Surface Water: Present Absent
Perceptible Flow: Present Absent
Water Depth at Thalweg (ft.): 0.25'
Wetted Perimeter Width (ft.): 2'
Flow/Gradient Direction: North

Geomorphologic Characteristics

Primary Substrate Class: Silt/Clay + cobbles/gravel

		Width (ft.)	
		at DP	Max
OHWM		4'	6'
Top of Bank		5'	8'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:

Left: 1:3
 Right: 1:3

Bank Stability Summary

Right: Moderately stable, mostly rock layers and some
roots preventing erosion, serious undercutting @
meander points due to steep gradient
Left: Same as above

Stream Data Form

Data Point ID: 772

Habitat Characteristics

Aquatic Vegetation Present: Yes No
 If Yes, Describe: _____

Aquatic Organisms Observed: Yes No
 If Yes, Describe: _____

Terrestrial Organisms Observed: Yes No
 If Yes, Describe: birds

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Right: Deciduous hardwood forest

Left: Deciduous hardwood forest

Associated Wetland Present: Yes No
 If Yes, ID: A 641

Associated Artificial Drain Present: Yes No
 If Yes, ID: _____

Photos

	Direction	Notes/Additional Description
Upstream	S	
Downstream	N	
Cross Channel	W	202

Jurisdictional Connectivity Notes:

Supplemental Notes & Comments:

Stream Data Form

Stream Field ID: STREAM A547
 Data Point ID: DP-781 Date: 6/22/16
 Project Name: Ball Hill Wind Project
 Evaluator(s): B. Virts, J. Sanders
 County: Chautauqua State: NY
 Stream Name: U.T. of Silver Creek
 State Classified: Yes No Not Applicable
 If Yes, Classification: C
 Lat: 42.5083579 Long: -79.1580228

Hydrologic Characteristics

Flow Regime: Perennial Intermittent Ephemeral
 Surface Water: Present Absent
 Perceptible Flow: Present Absent
 Water Depth at Thalweg (ft.): NA
 Wetted Perimeter Width (ft.): NA
 Flow/Gradient Direction: South

Geomorphologic Characteristics

Primary Substrate Class: Silt/clay

	Width (ft.)	
	at DP	Max
OHWB	5'	6'
Top of Bank	11'	13'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:

Left: 3:2

Right: 3:2

Bank Stability Summary

Right: Bank is fully vegetated and stable

 Left: Same as Right Bank

Stream Data Form

Data Point ID: DP-781

Habitat Characteristics

Aquatic Vegetation Present: Yes No

If Yes, Describe: _____

Aquatic Organisms Observed: Yes No

If Yes, Describe: _____

Terrestrial Organisms Observed: Yes No

If Yes, Describe: _____

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Right: 0'-5' facultative and facultative wet
shrubs and herbaceous layers
5'-150' cultivated vineyard

Left: same as Right Bank

Associated Wetland Present: Yes No

If Yes, ID: Wetland AS93 connects to stream at site

Associated Artificial Drain Present: Yes No

If Yes, ID: _____

Photos

	Direction	Notes/Additional Description
Upstream	N	
Downstream	S	
Cross Channel	E	LTP

Jurisdictional Connectivity Notes:

Supplemental Notes & Comments:

Stream Data Form

Stream Field ID: ST- A700
 Data Point ID: DP- 794 Date: 4/4/17
 Project Name: Ball Hill Wind Project
 Evaluator(s): B. Virts and N. Dutcher
 County: Chautauqua State: NY
 Stream Name: Unnamed Tributary to Walnut Creek (Class C(C))
 State Classified: Yes No Not Applicable
 If Yes, Classification: _____
 Lat: 42.478558 Long: -79.156846

Hydrologic Characteristics

Flow Regime: Perennial Intermittent Ephemeral
 Surface Water: Present Absent
 Perceptible Flow: Present Absent
 Water Depth at Thalweg: 6'
 Wetted Perimeter Width: 3'
 Flow/Gradient Direction: west

Geomorphologic Characteristics

Primary Substrate Class: cobble, gravel, silt

	Width (ft.)	
	at DP	Max
OHWM	3'	4'
Top of Bank	8'	10'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
 Left: 1:4
 Right: 1:2

Bank Stability Summary

Right: Rock/gravel sliding down bank into stream bed from gravel road. Little vegetation holding bank up.
 Left: Moderate - some rock sliding and undercutting steep bank w/ little herbaceous vegetation

Stream Data Form

Data Point ID: DP- 794

Habitat Characteristics

Aquatic Vegetation Present: Yes No
 If Yes, Describe: _____

Aquatic Organisms Observed: Yes No
 If Yes, Describe: _____

Terrestrial Organisms Observed: Yes No
 If Yes, Describe: _____

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Right: Overgrown cattle pasture

Left: Deciduous hardwood forest - secondary succession

Associated Wetland Present: Yes No
 If Yes, ID: _____

Associated Artificial Drain Present: Yes No
 If Yes, ID: A0-A704

Jurisdictional Connectivity/Supplemental Comments:

Ditch A705 flows into stream.
Stream starts at top of hill and flows through
culvert A704 off site, to large perennial stream
off-site.

Appendix C

Ditch Data Forms

Ditch Data Form

Ditch Field ID: DT-A200
Data Point ID: DP-223 **Date:** 5/24/16
Project Name: Ball Hill Wind Project
Evaluator(s): S. ZAJAC
County: Chautauqua **State:** NY
Jurisdictional: Yes No
Lat: 42.420247 **Long:** -79.135834

Jurisdictional Determination Criteria		
Yes	No	Jurisdictional Attribute
<input checked="" type="checkbox"/>		1) Defined Bed and Bank Present
<input checked="" type="checkbox"/>		2) Ordinary High Water Mark Present
<input checked="" type="checkbox"/>		3) Direct or Indirect Connection to a Traditional Navigable Water
		4) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
<input checked="" type="checkbox"/>		a) Presence of Relatively Permanent Flowing or Standing Water
		b) A Natural Stream That Has Been Altered
		c) Excavated in a Jurisdictional WOTUS
		d) Connects Two or More Jurisdictional WOTUS
		e) Drains Natural Water Bodies (including wetlands) into the tributary system of a TNW

Hydrologic Characteristics		
Surface Water:	Present <input type="checkbox"/>	Absent <input checked="" type="checkbox"/>
Perceptible Flow:	Present <input type="checkbox"/>	Absent <input checked="" type="checkbox"/>
Water Depth at Thalweg:	<u>N/A</u>	Wetted Perimeter Width: <u>N/A</u>
Flow/Gradient Direction:	<u>South</u>	

Geomorphologic Characteristics		
Primary Substrate Class: _____		
	Width	
	at DP	Max
OHWM	<u>2.5'</u>	<u>2.5</u>
Top of Bank	<u>3'</u>	<u>4.5'</u>
	Left	Right
Bank Slope (H:V)	<u>1:3</u>	<u>1:3</u>

Bank Stability Summary	
Left Bank:	<u>not stabilized</u>
Right Bank:	<u>not stabilized</u>

Ditch Data Form

Ditch Field ID: Ditch-61
Data Point ID: DP-237 **Date:** 5/25/16
Project Name: Ball Hill Wind Project
Evaluator(s): Jaime Zayas
County: Chautauqua **State:** NY
Jurisdictional: Yes No
Lat: 42.410551 **Long:** -79.164061

Jurisdictional Determination Criteria		
Yes	No	Jurisdictional Attribute
<input checked="" type="checkbox"/>	<input type="checkbox"/>	1) Defined Bed and Bank Present
<input checked="" type="checkbox"/>	<input type="checkbox"/>	2) Ordinary High Water Mark Present
<input checked="" type="checkbox"/>	<input type="checkbox"/>	3) Direct or Indirect Connection to a Traditional Navigable Water
<input type="checkbox"/>	<input type="checkbox"/>	4) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	a) Presence of Relatively Permanent Flowing or Standing Water
<input type="checkbox"/>	<input type="checkbox"/>	b) A Natural Stream That Has Been Altered
<input type="checkbox"/>	<input type="checkbox"/>	c) Excavated in a Jurisdictional WOTUS
<input type="checkbox"/>	<input type="checkbox"/>	d) Connects Two or More Jurisdictional WOTUS
<input checked="" type="checkbox"/>	<input type="checkbox"/>	e) Drains Natural Water Bodies (including wetlands) into the tributary system of a TNW

Hydrologic Characteristics			
Surface Water:	Present	<input checked="" type="checkbox"/>	Absent <input type="checkbox"/>
Perceptible Flow:	Present	<input checked="" type="checkbox"/>	Absent <input type="checkbox"/>
Water Depth at Thalweg:	<u>1"</u>	Wetted Perimeter Width:	<u>16-20"</u>
Flow/Gradient Direction:	<u>N</u>		

Geomorphologic Characteristics			
Primary Substrate Class:			
		Width	
		at DP	Max
OHWM	7'	7'	
Top of Bank	9'	9'	
		Left	Right
Bank Slope (H:V)	1:3	1:1	

Bank Stability Summary	
Left Bank:	<u>Stable</u>
Right Bank:	<u>Stable</u>

Ditch Data Form

Data Point ID: DP- 237

Habitat Characteristics

Aquatic Vegetation Present: Yes No
 If Yes, Describe: scattered *T. latifolia* (<1%) and *C. arvense* (1%)

Aquatic Organisms Observed: Yes No
 If Yes, Describe: Tadpoles

Terrestrial Organisms Observed: Yes No
 If Yes, Describe: _____

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):
 Right: *P. lanceolata*, *D. glomerata*, *T. officinalis*

 Left: autumn olive, *P. aceris*, *D. glomerata*

Associated Wetland Present: Yes No
 If Yes, Describe: Wetland 01 to south

Associated Artificial Drain(s) Present: Yes No
 If Yes, ID: Culvert 200

Photos

	Direction	Description
Upstream	S	
Downstream	N	
Cross Channel	W	R to L bank

Supplemental Notes & Comments:

Extension of previously delineated ditch
into new search area

Ditch Data Form

Ditch Field ID: DT-A201
Data Point ID: DP-251 **Date:** 5/26/16
Project Name: Ball Hill Wind Project
Evaluator(s): Jaime Zeros
County: Chautauqua **State:** NY
Jurisdictional: Yes No
Lat: 42.393015 **Long:** -79.141955

Jurisdictional Determination Criteria		
Yes	No	Jurisdictional Attribute
X		1) Defined Bed and Bank Present
X		2) Ordinary High Water Mark Present
X		3) Direct or Indirect Connection to a Traditional Navigable Water
		4) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
X		a) Presence of Relatively Permanent Flowing or Standing Water
		b) A Natural Stream That Has Been Altered
		c) Excavated in a Jurisdictional WOTUS
		d) Connects Two or More Jurisdictional WOTUS
		e) Drains Natural Water Bodies (including wetlands) into the tributary system of a TNW

Hydrologic Characteristics

Surface Water: Present Absent
Perceptible Flow: Present Absent
Water Depth at Thalweg: N/A **Wetted Perimeter Width:** N/A
Flow/Gradient Direction: N

Geomorphologic Characteristics

Primary Substrate Class: Clay / Sand / Gravel / Cobble

		Width	
		at DP	Max
OHWM Top of Bank	OHWM	7'	1'
	Top of Bank	27"	27"
		Left	Right
Bank Slope (H:V)		1:1	1:1

Bank Stability Summary

Left Bank: Stable

Right Bank: Stable

Ditch Data Form

Data Point ID: DP- 251

Habitat Characteristics

Aquatic Vegetation Present: Yes No

If Yes, Describe: _____

Aquatic Organisms Observed: Yes No

If Yes, Describe: _____

Terrestrial Organisms Observed: Yes No

If Yes, Describe: _____

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Right: A. scaberrimum, T. canadensis, P. alleghaniensis

Left: Same

Associated Wetland Present: Yes No

If Yes, Describe: _____

Associated Artificial Drain(s) Present: Yes No

If Yes, ID: _____

Photos

	Direction	Description
Upstream	W	
Dowstream	E	
Cross Channel	N	R to L

Supplemental Notes & Comments:

Flows into ST-A204

Ditch Data Form

Ditch Field ID: DT-E1 EXT
Data Point ID: DP-264 **Date:** 5/31/16
Project Name: Ball Hill Wind Project
Evaluator(s): James Zuro
County: Chautauqua **State:** NY
Jurisdictional: Yes No
Lat: 42.407138 **Long:** -79.139979

Jurisdictional Determination Criteria		
Yes	No	Jurisdictional Attribute
/		1) Defined Bed and Bank Present
X		2) Ordinary High Water Mark Present
X		3) Direct or Indirect Connection to a Traditional Navigable Water
		4) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
X		a) Presence of Relatively Permanent Flowing or Standing Water
		b) A Natural Stream That Has Been Altered
		c) Excavated in a Jurisdictional WOTUS
		d) Connects Two or More Jurisdictional WOTUS
		e) Drains Natural Water Bodies (including wetlands) into the tributary system of a TNW

Hydrologic Characteristics			
Surface Water:	Present	<input type="checkbox"/>	Absent <input checked="" type="checkbox"/>
Perceptible Flow:	Present	<input type="checkbox"/>	Absent <input checked="" type="checkbox"/>
Water Depth at Thalweg:	<u>N/A</u>		Wetted Perimeter Width: <u>N/A</u>
Flow/Gradient Direction:	<u>S</u>		

Geomorphologic Characteristics

Primary Substrate Class: _____

		Width	
		at DP	Max
OHWM		13	12'
Top of Bank		26	3'
		Left	Right
Bank Slope (H:V)		1:1	1:1

Bank Stability Summary

Left Bank: Relatively stable

Right Bank: Relatively stable

Ditch Data Form

Ditch Field ID: DT-A201
Data Point ID: DP-280 **Date:** 6/1/16
Project Name: Ball Hill Wind Project
Evaluator(s): Jaine Zanos
County: Chautauqua **State:** NY
Jurisdictional: Yes No
Lat: 42.452183 **Long:** -79.112629

Jurisdictional Determination Criteria		
Yes	No	Jurisdictional Attribute
<input checked="" type="checkbox"/>	<input type="checkbox"/>	1) Defined Bed and Bank Present
<input checked="" type="checkbox"/>	<input type="checkbox"/>	2) Ordinary High Water Mark Present
<input checked="" type="checkbox"/>	<input type="checkbox"/>	3) Direct or Indirect Connection to a Traditional Navigable Water
		4) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	a) Presence of Relatively Permanent Flowing or Standing Water
<input type="checkbox"/>	<input type="checkbox"/>	b) A Natural Stream That Has Been Altered
<input type="checkbox"/>	<input type="checkbox"/>	c) Excavated in a Jurisdictional WOTUS
<input type="checkbox"/>	<input type="checkbox"/>	d) Connects Two or More Jurisdictional WOTUS
<input type="checkbox"/>	<input type="checkbox"/>	e) Drains Natural Water Bodies (including wetlands) into the tributary system of a TNW

Hydrologic Characteristics

Surface Water: Present Absent
Perceptible Flow: Present Absent
Water Depth at Thalweg: N/A **Wetted Perimeter Width:** N/A
Flow/Gradient Direction: S

Geomorphologic Characteristics

Primary Substrate Class: _____

	Width	
	at DP	Max
OHWM	1'	1'
Top of Bank	1.5'	1.5'
	Left	Right
Bank Slope (H:V)	1:1	1:1

Bank Stability Summary

Left Bank: Stable
Right Bank: Stable

Ditch Data Form

Data Point ID: DP- 280

Habitat Characteristics

Aquatic Vegetation Present: Yes No

If Yes, Describe: _____

Aquatic Organisms Observed: Yes No

If Yes, Describe: _____

Terrestrial Organisms Observed: Yes No

If Yes, Describe: _____

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Right: I. americana forest

Left: Same

Associated Wetland Present: Yes No

If Yes, Describe: outside of search area

Associated Artificial Drain(s) Present: Yes No

If Yes, ID: _____

Photos

	Direction	Description
Upstream	N	
Downstream	S	
Cross Channel	W	L to R

Supplemental Notes & Comments:

Drains agricultural field to a wetland and state mapped stream outside of delineation area.

Ditch Data Form

Ditch Field ID: DT-A203
Data Point ID: DP-287 **Date:** 6/2/16
Project Name: Ball Hill Wind Project
Evaluator(s): Jaime Santos
County: Chautauqua **State:** NY
Jurisdictional: Yes No
Lat: 42.460326 **Long:** -79.148835

Jurisdictional Determination Criteria		
Yes	No	Jurisdictional Attribute
/		1) Defined Bed and Bank Present
/		2) Ordinary High Water Mark Present
/		3) Direct or Indirect Connection to a Traditional Navigable Water
		4) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
/		a) Presence of Relatively Permanent Flowing or Standing Water
		b) A Natural Stream That Has Been Altered
		c) Excavated in a Jurisdictional WOTUS
		d) Connects Two or More Jurisdictional WOTUS
		e) Drains Natural Water Bodies (including wetlands) into the tributary system of a TNW

Hydrologic Characteristics		
Surface Water:	Present <input checked="" type="checkbox"/>	Absent <input type="checkbox"/>
Perceptible Flow:	Present <input checked="" type="checkbox"/>	Absent <input type="checkbox"/>
Water Depth at Thalweg:	<u>2"</u>	Wetted Perimeter Width: <u>30"</u>
Flow/Gradient Direction:	<u>West</u>	

Geomorphologic Characteristics		
Primary Substrate Class: <u>Concrete</u>		
	Width	
	at DP	Max
OHWM	<u>30"</u>	<u>25"</u>
Top of Bank	<u>41"</u>	<u>41"</u>
	Left	Right
Bank Slope (H:V)	<u>1:1</u>	<u>1:1</u>

Bank Stability Summary	
Left Bank:	<u>Stable</u>
Right Bank:	<u>Stable</u>

Ditch Data Form

Data Point ID: DP- 282

Habitat Characteristics

Aquatic Vegetation Present: Yes No
 If Yes, Describe: *Monarda J. latifolia*

Aquatic Organisms Observed: Yes No
 If Yes, Describe: _____

Terrestrial Organisms Observed: Yes No
 If Yes, Describe: _____

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):
 Right: Rt 39, Shrub field

Left: 9 days field

Associated Wetland Present: Yes No
 If Yes, Describe: _____

Associated Artificial Drain(s) Present: Yes No
 If Yes, ID: _____

Photos

	Direction	Description
Upstream	E	
Downstream	W	
Cross Channel	N	R to L

Supplemental Notes & Comments:

Ditch parallels Rt. 39. Most of the area located within the delineation area is comprised of concrete. Ditch likely connects to a WOTUS and would be considered jurisdictional. Water levels are down and flow is stagnant

Ditch Data Form

Ditch Field ID: DT-A204
 Data Point ID: DP-283 Date: 6/2/16
 Project Name: Ball Hill Wind Project
 Evaluator(s): Joanne Janos
 County: Chautauqua State: NY
 Jurisdictional: Yes No
 Lat: 42.460459 Long: -79.148818

Jurisdictional Determination Criteria		
Yes	No	Jurisdictional Attribute
<input checked="" type="checkbox"/>	<input type="checkbox"/>	1) Defined Bed and Bank Present
<input checked="" type="checkbox"/>	<input type="checkbox"/>	2) Ordinary High Water Mark Present
<input checked="" type="checkbox"/>	<input type="checkbox"/>	3) Direct or Indirect Connection to a Traditional Navigable Water
<input type="checkbox"/>	<input type="checkbox"/>	4) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	a) Presence of Relatively Permanent Flowing or Standing Water
<input type="checkbox"/>	<input type="checkbox"/>	b) A Natural Stream That Has Been Altered
<input type="checkbox"/>	<input type="checkbox"/>	c) Excavated in a Jurisdictional WOTUS
<input type="checkbox"/>	<input type="checkbox"/>	d) Connects Two or More Jurisdictional WOTUS
<input type="checkbox"/>	<input type="checkbox"/>	e) Drains Natural Water Bodies (including wetlands) into the tributary system of a TNW

Hydrologic Characteristics

Surface Water: Present Absent
 Perceptible Flow: Present Absent
 Water Depth at Thalweg: N/A Wetted Perimeter Width: N/A
 Flow/Gradient Direction: W

Geomorphologic Characteristics

Primary Substrate Class: Concrete

	Width	
	at DP	Max
OHWM	1'	1'
Top of Bank	42"	42"
Bank Slope (H:V)	Left	Right
	1:1	1:1

Bank Stability Summary

Left Bank: Stable
 Right Bank: Stable



Ditch Data Form

Ditch Field ID: DT-A205
Data Point ID: DP-284 **Date:** 6/2/16
Project Name: Ball Hill Wind Project
Evaluator(s): Jaime Zayas
County: Chautauqua **State:** NY
Jurisdictional: Yes No
Lat: 42.463673 **Long:** -79.149544

Jurisdictional Determination Criteria		
Yes	No	Jurisdictional Attribute
X		1) Defined Bed and Bank Present
X		2) Ordinary High Water Mark Present
X		3) Direct or Indirect Connection to a Traditional Navigable Water
		4) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
X		a) Presence of Relatively Permanent Flowing or Standing Water
		b) A Natural Stream That Has Been Altered
		c) Excavated in a Jurisdictional WOTUS
		d) Connects Two or More Jurisdictional WOTUS
		e) Drains Natural Water Bodies (including wetlands) into the tributary system of a TNW

Hydrologic Characteristics

Surface Water: Present Absent
Perceptible Flow: Present Absent
Water Depth at Thalweg: N/A **Wetted Perimeter Width:** N/A
Flow/Gradient Direction: W

Geomorphologic Characteristics

Primary Substrate Class: _____

		Width	
		at DP	Max
OHWM		21"	21"
Top of Bank		4.5'	4.5'
		Left	Right
Bank Slope (H:V)		1:1	1:1

Bank Stability Summary

Left Bank: Stable

Right Bank: Stable

Ditch Data Form

Ditch Field ID: 1 - Ditch-A501
Data Point ID: DP-665 **Date:** 5/20/16
Project Name: Ball Hill Wind Project
Evaluator(s): Ben Virts, Nicole Dutcher
County: Chautauqua **State:** NY
Jurisdictional: Yes No
Lat: 42.407788 **Long:** -79.113959

Jurisdictional Determination Criteria		
Yes	No	Jurisdictional Attribute
<input checked="" type="checkbox"/>		1) Defined Bed and Bank Present
<input checked="" type="checkbox"/>		2) Ordinary High Water Mark Present
	<input checked="" type="checkbox"/>	3) Direct or Indirect Connection to a Traditional Navigable Water
		4) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
<input checked="" type="checkbox"/>		a) Presence of Relatively Permanent Flowing or <u>Standing</u> Water
	<input checked="" type="checkbox"/>	b) A Natural Stream That Has Been Altered
	<input checked="" type="checkbox"/>	c) Excavated in a Jurisdictional WOTUS
	<input checked="" type="checkbox"/>	d) Connects Two or More Jurisdictional WOTUS
	<input checked="" type="checkbox"/>	e) Drains Natural Water Bodies (including wetlands) into the tributary system of a TNW

Hydrologic Characteristics

Surface Water: Present Absent
Perceptible Flow: Present Absent
Water Depth at Thalweg: 3" **Wetted Perimeter Width:** 1.0'
Flow/Gradient Direction: 102° N

Geomorphologic Characteristics

Primary Substrate Class: Silt/Clay

	Width	
	at DP	Max
OHWM	4.0'	6.0'
Top of Bank	9.0'	12.0'
	Left	Right
Bank Slope (H:V)	2' / 3'	2' : 3'

Bank Stability Summary

Left Bank: bank is stable, no erosion present
Right Bank: bank is stable, no erosion present

Ditch Data Form

Data Point ID: DP-665

Habitat Characteristics

Aquatic Vegetation Present: Yes No

If Yes, Describe: _____

Aquatic Organisms Observed: Yes No

If Yes, Describe: _____

Terrestrial Organisms Observed: Yes No

If Yes, Describe: _____

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Right: 0-5' maintained FAC herbaceous
5'-150' cultivated row crops (wheat)

Left: 0-40' FAC/FACw herbaceous veg.
40'-50' Access road
50'-150' Cultivated row crops (wheat)

Associated Wetland Present: Yes No

If Yes, Describe: Wetland A597

Associated Artificial Drain(s) Present: Yes No

If Yes, ID: AD-A509

Photos

	Direction	Description
Upstream	S	
Dowstream	N	
Cross Channel	W	RTL

Supplemental Notes & Comments:

Ditch Data Form

Ditch Field ID: Ditch A504
Data Point ID: DP-720 **Date:** 5/27/16
Project Name: Ball Hill
Evaluator(s): Ben Virfs and Nicole Dutcher
County: Chautauque **State:** NY
Jurisdictional: Yes No
Lat: 42.439850 **Long:** -79.129355

Jurisdictional Determination Criteria		
Yes	No	Jurisdictional Attribute
<input checked="" type="checkbox"/>		1) Defined Bed and Bank Present
<input checked="" type="checkbox"/>		2) Ordinary High Water Mark Present
<input checked="" type="checkbox"/>		3) Direct or Indirect Connection to a Traditional Navigable Water
		4) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
	<input checked="" type="checkbox"/>	a) Presence of Relatively Permanent Flowing or Standing Water
	<input checked="" type="checkbox"/>	b) A Natural Stream That Has Been Altered
<input checked="" type="checkbox"/>		c) Excavated in a Jurisdictional WOTUS
	<input checked="" type="checkbox"/>	d) Connects Two or More Jurisdictional WOTUS
	<input checked="" type="checkbox"/>	e) Drains Natural Water Bodies (including wetlands) into the tributary system of a TNW

Hydrologic Characteristics			
Surface Water:	Present	<input type="checkbox"/>	Absent <input checked="" type="checkbox"/>
Perceptible Flow:	Present	<input type="checkbox"/>	Absent <input checked="" type="checkbox"/>
Water Depth at Thalweg:	<u>N/A</u>	Wetted Perimeter Width:	
Flow/Gradient Direction:	<u>East</u>		

Geomorphologic Characteristics	
Primary Substrate Class:	<u>Silt</u>

		Width	
		at DP	Max
OHWM		1.5ft	2.5ft
Top of Bank		2ft	3ft
		Left	Right
Bank Slope (H:V)		0.5/0.5	1/0.5

Bank Stability Summary	
Left Bank:	<u>Stable</u>
Right Bank:	<u>Stable</u>

Ditch Data Form

Data Point ID: DP-720

Habitat Characteristics

Aquatic Vegetation Present: Yes No

If Yes, Describe: _____

Aquatic Organisms Observed: Yes No

If Yes, Describe: _____

Terrestrial Organisms Observed: Yes No

If Yes, Describe: _____

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Right: 0-3' herbaceous cover
3-100' Road , 100-150' Upland/

Left: 0-150' PSS wetland WL-A624

Associated Wetland Present: Yes No

If Yes, Describe: Wetland WL-A624

Associated Artificial Drain(s) Present: Yes No

If Yes, ID: _____

Photos

	Direction	Description
Upstream	W	
Downstream	E	
Cross Channel	N	L to R

Supplemental Notes & Comments:

Road side ditch dug in original boundary of wetlands.

Ditch Data Form

Ditch Field ID: DI-A507
 Data Point ID: DP-754 Date: 6/8/10
 Project Name: Ball Hill Wind Project
 Evaluator(s): Ben Virrs and Nicole Dutcher
 County: Chautauqua State: NY
 Jurisdictional: Yes No
 Lat: 42.419441 Long: -79.152273

Jurisdictional Determination Criteria		
Yes	No	Jurisdictional Attribute
<input checked="" type="checkbox"/>	<input type="checkbox"/>	1) Defined Bed and Bank Present
<input type="checkbox"/>	<input checked="" type="checkbox"/>	2) Ordinary High Water Mark Present
<input type="checkbox"/>	<input checked="" type="checkbox"/>	3) Direct or Indirect Connection to a Traditional Navigable Water
<input type="checkbox"/>	<input type="checkbox"/>	4) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	a) Presence of Relatively Permanent Flowing or Standing Water
<input type="checkbox"/>	<input checked="" type="checkbox"/>	b) A Natural Stream That Has Been Altered
<input type="checkbox"/>	<input checked="" type="checkbox"/>	c) Excavated in a Jurisdictional WOTUS
<input type="checkbox"/>	<input checked="" type="checkbox"/>	d) Connects Two or More Jurisdictional WOTUS
<input type="checkbox"/>	<input checked="" type="checkbox"/>	e) Drains Natural Water Bodies (including wetlands) into the tributary system of a TNW

Hydrologic Characteristics

Surface Water: Present Absent
 Perceptible Flow: Present Absent
 Water Depth at Thalweg (ft.): N/A
 Wetted Perimeter Width (ft.): N/A
 Flow/Gradient Direction: _____

Geomorphologic Characteristics

Primary Substrate Class: Silt

	Width (ft.)	
	at DP	Max
OHWL	<u>N/A</u>	<u>N/A</u>
Top of Bank		

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
 Left: 1:1
 Right: 1:1

Ditch Data Form

Data Point ID: DP-754

Bank Stability Summary

Left Bank: Stable vegetation well established, no evidence of undercutting or erosion

Right Bank: ↑ Same as Left ↑

Habitat Characteristics

Aquatic Vegetation Present: Yes No

If Yes, Describe: _____

Aquatic Organisms Observed: Yes No

If Yes, Describe: _____

Terrestrial Organisms Observed: Yes No

If Yes, Describe: _____

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Right: 0-3' - upland herbaceous vegetation
3'-150' - cultivated crop field

Left: 0-2' - upland herbaceous vegetation
2'-25' - Asphalt Road

Associated Wetland Present: Yes No

If Yes, ID: Wetland A587

Associated Artificial Drain(s) Present: Yes No

If Yes, ID: AD-S23

Photos

	Direction	Description
Upstream	S	
Downstream	N	
Cross Channel	W	P-to-L

Supplemental Notes & Comments:

Non-jurisdictional roadside ditch along Pope Hill Road

Ditch Data Form

Ditch Field ID: DI-AS09
 Data Point ID: DP-760 Date: 6/9/16
 Project Name: Ball Hill Wind Project
 Evaluator(s): Ben Virts and Nicole Dunbar
 County: Chautauqua State: NY
 Jurisdictional: Yes No
 Lat: 42.475060 Long: -79.149393

Jurisdictional Determination Criteria		
Yes	No	Jurisdictional Attribute
<input checked="" type="checkbox"/>	<input type="checkbox"/>	1) Defined Bed and Bank Present
<input checked="" type="checkbox"/>	<input type="checkbox"/>	2) Ordinary High Water Mark Present
<input type="checkbox"/>	<input checked="" type="checkbox"/>	3) Direct or Indirect Connection to a Traditional Navigable Water
4) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)		
<input type="checkbox"/>	<input checked="" type="checkbox"/>	a) Presence of Relatively Permanent Flowing or Standing Water
<input type="checkbox"/>	<input checked="" type="checkbox"/>	b) A Natural Stream That Has Been Altered
<input type="checkbox"/>	<input checked="" type="checkbox"/>	c) Excavated in a Jurisdictional WOTUS
<input checked="" type="checkbox"/>	<input type="checkbox"/>	d) Connects Two or More Jurisdictional WOTUS
<input checked="" type="checkbox"/>	<input type="checkbox"/>	e) Drains Natural Water Bodies (including wetlands) into the tributary system of a TNW

Hydrologic Characteristics

Surface Water: Present Absent
 Perceptible Flow: Present Absent
 Water Depth at Thalweg (ft.): N/A
 Wetted Perimeter Width (ft.): N/A
 Flow/Gradient Direction: NW

Geomorphologic Characteristics

Primary Substrate Class: Silt/Clay

		Width (ft.)	
		at DP	Max
OHWM		N/A	N/A
Top of Bank		3'	3'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:

Left: 1:1
 Right: 1:1

Ditch Data Form

Data Point ID: DP-760

Bank Stability Summary

Left Bank: Very Stable, vegetation growing on bank, no
evidence of undercutting or sloughing

Right Bank: ↑ same as above ↑

Habitat Characteristics

Aquatic Vegetation Present: Yes No

If Yes, Describe: _____

Aquatic Organisms Observed: Yes No

If Yes, Describe: _____

Terrestrial Organisms Observed: Yes No

If Yes, Describe: _____

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Right: 0-5' Upland/FAC plants (not mowed)
5'-150' cultivated/mowed hay field

Left: 0-150' PFD wetland on ditch part flowing E to W
and Upland forest on section of ditch flowing S to N

Associated Wetland Present: Yes No

If Yes, ID: Wetland A638

Associated Artificial Drain(s) Present: Yes No

If Yes, ID: Artificial Drain AD 524

Photos

	Direction	Description
Upstream	E	
Downstream	W	
Cross Channel	S	R to L

Supplemental Notes & Comments:

Drains wetland A638 to agricultural pond outside study area

Ditch Data Form

Ditch Field ID: DI - AS10
Data Point ID: DP- 776 **Date:** 6/10/16
Project Name: Ball Hill Wind Project
Evaluator(s): Ben Viree and Nicole Dohy
County: Chautauqua **State:** NY
Jurisdictional: Yes No
Lat: 42.4900502 **Long:** -79.151437

Jurisdictional Determination Criteria		
Yes	No	Jurisdictional Attribute
<input checked="" type="checkbox"/>	<input type="checkbox"/>	1) Defined Bed and Bank Present
<input checked="" type="checkbox"/>	<input type="checkbox"/>	2) Ordinary High Water Mark Present
<input checked="" type="checkbox"/>	<input type="checkbox"/>	3) Direct or Indirect Connection to a Traditional Navigable Water
4) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)		
<input type="checkbox"/>	<input checked="" type="checkbox"/>	a) Presence of Relatively Permanent Flowing or Standing Water
<input type="checkbox"/>	<input checked="" type="checkbox"/>	b) A Natural Stream That Has Been Altered
<input checked="" type="checkbox"/>	<input type="checkbox"/>	c) Excavated in a Jurisdictional WOTUS
<input checked="" type="checkbox"/>	<input type="checkbox"/>	d) Connects Two or More Jurisdictional WOTUS
<input checked="" type="checkbox"/>	<input type="checkbox"/>	e) Drains Natural Water Bodies (including wetlands) into the tributary system of a TNW

Hydrologic Characteristics

Surface Water: Present Absent
Perceptible Flow: Present Absent
Water Depth at Thalweg (ft.): N/A
Wetted Perimeter Width (ft.): N/A
Flow/Gradient Direction: West

Geomorphologic Characteristics

Primary Substrate Class: S. H

	Width (ft.)	
	at DP	Max
OHWM	1'	2'
Top of Bank	2'	3'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
 Left: 1:3
 Right: 1:1

Ditch Data Form

Data Point ID: 775

Bank Stability Summary

Left Bank: Stable - well vegetated

Right Bank: Stable - well vegetated

Habitat Characteristics

Aquatic Vegetation Present: Yes No

If Yes, Describe: _____

Aquatic Organisms Observed: Yes No

If Yes, Describe: _____

Terrestrial Organisms Observed: Yes No

If Yes, Describe: _____

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Right: 0-150' - P_{SS} Wetland

Left: 0-5' - Roadside bank

5'-30' - Asphalt main road

30'-35' - Ditch 35'-150' - Upland

Associated Wetland Present: Yes No

If Yes, ID: A641

Associated Artificial Drain(s) Present: Yes No

If Yes, ID: AD-526

Photos

	Direction	Description
Upstream	S	
Downstream	N	
Cross Channel	W	R to L

Supplemental Notes & Comments:

Ditch Data Form

Ditch Field ID: Ditch #511
Data Point ID: DP-782 **Date:** 6/22/16
Project Name: Ball Hill Wind Project
Evaluator(s): B. Viers, J. Scudder
County: Chautauqua **State:** NY
Jurisdictional: Yes No
Lat: 42.5083498 **Long:** -79.1573107

Jurisdictional Determination Criteria		
Yes	No	Jurisdictional Attribute
x		1) Defined Bed and Bank Present
x		2) Ordinary High Water Mark Present
x		3) Direct or Indirect Connection to a Traditional Navigable Water
		4) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
	x	a) Presence of Relatively Permanent Flowing or Standing Water
	x	b) A Natural Stream That Has Been Altered
	x	c) Excavated in a Jurisdictional WOTUS
x		d) Connects Two or More Jurisdictional WOTUS
	x	e) Drains Natural Water Bodies (including wetlands) into the tributary system of a TNW

Hydrologic Characteristics

Surface Water: Present Absent
Perceptible Flow: Present Absent
Water Depth at Thalweg (ft.): NA
Wetted Perimeter Width (ft.): NA
Flow/Gradient Direction: west

Geomorphologic Characteristics

Primary Substrate Class: Silt/Clay

	Width (ft.)	
	at DP	Max
OHWM	2'	3'
Top of Bank	9'	9'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: 1:1
Right: 1:1

Ditch Data Form

Data Point ID: DP-782

Bank Stability Summary

Left Bank: Banks are fully vegetated with no
erosion present

Right Bank: Same as Left Bank

Habitat Characteristics

Aquatic Vegetation Present: Yes No

If Yes, Describe: _____

Aquatic Organisms Observed: Yes No

If Yes, Describe: _____

Terrestrial Organisms Observed: Yes No

If Yes, Describe: _____

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Right: Forest 0'-150'

Left: 0'-10' facultative shrubs and herbaceous buffer
10'-150' Plowed Row crop field

Associated Wetland Present: Yes No

If Yes, ID: offset to East, no ID.

Associated Artificial Drain(s) Present: Yes No

If Yes, ID: _____

Photos

	Direction	Description
Upstream	E	
Dowstream	W	
Cross Channel	S	RTL

Supplemental Notes & Comments:

Ditch Data Form

Ditch Field ID: DT- A600
Data Point ID: DP- 783A **Date:** 4/4/17
Project Name: Ball Hill Wind Project
Evaluator(s): Ben Virts and Nicole Dutzler
County: Chautauqua **State:** NY
Jurisdictional: Yes No
Lat: 42.492961 **Long:** -79.150090

Jurisdictional Determination Criteria		
Yes	No	Jurisdictional Attribute
<input checked="" type="checkbox"/>	<input type="checkbox"/>	1) Defined Bed and Bank/Channel Present
<input checked="" type="checkbox"/>	<input type="checkbox"/>	2) Ordinary High Water Mark Present
<input checked="" type="checkbox"/>	<input type="checkbox"/>	3) Direct or Indirect Connection to a Traditional Navigable Water
<input type="checkbox"/>	<input type="checkbox"/>	4) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	a) Presence of Relatively Permanent Flowing or Standing Water
<input type="checkbox"/>	<input checked="" type="checkbox"/>	b) A Natural Stream That Has Been Altered
<input type="checkbox"/>	<input checked="" type="checkbox"/>	c) Excavated in a Jurisdictional WOTUS
<input checked="" type="checkbox"/>	<input type="checkbox"/>	d) Connects Two or More Jurisdictional WOTUS
<input checked="" type="checkbox"/>	<input type="checkbox"/>	e) Drains Natural Water Bodies (including wetlands) into the tributary system of a TNW

Hydrologic Characteristics

Surface Water: Present Absent
Perceptible Flow: Present Absent
Water Depth at Thalweg: 6"
Wetted Perimeter Width: 4'
Flow/Gradient Direction: East

Geomorphologic Characteristics

Primary Substrate Class: Gravel / Silt

		Width (ft.)	
		at DP	Max
OHWM		4'	8'
Top of Bank		8'	10'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: 1:2
Right: 1:3

Ditch Data Form

Data Point ID: DP- 783A

Bank Stability Summary

Left Bank: Stable, vegetated

Right Bank: Stable, vegetated and road buildup

Habitat Characteristics

Aquatic Vegetation Present: Yes No

If Yes, Describe: milfoil, macrophytes

Aquatic Organisms Observed: Yes No

If Yes, Describe: _____

Terrestrial Organisms Observed: Yes No

If Yes, Describe: _____

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Right: 0-3' road/ditch bank
3-45' Asphalt road
45+ - cow pasture.

Left: 0-150' - PSS/PEM wetland

Associated Wetland Present: Yes No

If Yes, ID: WL-A1646

Associated Artificial Drain(s) Present: Yes No

If Yes, ID: _____

Supplemental Notes & Comments:

Roadside ditch receiving flows from wetland A1646.
Ditch flows off site to intersection of King Road and
Deprison Road where it flows through culvert into
a field becoming a stream.

Ditch Data Form

Ditch Field ID: DT- A607
Data Point ID: DP- 800 **Date:** 4/5/17
Project Name: Ball Hill Wind Project
Evaluator(s): B. Vints and N. Dutcher
County: Chautauqua **State:** NY
Jurisdictional: Yes No
Lat: 42.503261 **Long:** -79.150051

Jurisdictional Determination Criteria		
Yes	No	Jurisdictional Attribute
X		1) Defined Bed and Bank/Channel Present
X		2) Ordinary High Water Mark Present
X		3) Direct or Indirect Connection to a Traditional Navigable Water
		4) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
X		a) Presence of Relatively Permanent Flowing or Standing Water
	X	b) A Natural Stream That Has Been Altered
	X	c) Excavated in a Jurisdictional WOTUS
X		d) Connects Two or More Jurisdictional WOTUS
	X	e) Drains Natural Water Bodies (including wetlands) into the tributary system of a TNW

Hydrologic Characteristics

Surface Water: Present Absent
Perceptible Flow: Present Absent
Water Depth at Thalweg: 6"
Wetted Perimeter Width: 3'
Flow/Gradient Direction: West

Geomorphologic Characteristics

Primary Substrate Class: grass/silt

	Width (ft.)	
	at DP	Max
OHWM	<u>4'</u>	<u>4'</u>
Top of Bank	<u>8</u>	<u>12</u>

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: 1:2
Right: 1:2

Ditch Data Form

Data Point ID: DP- 800

Bank Stability Summary

Left Bank: Stable highly vegetated w/ grasses, no evidence of erosion

Right Bank: ↑ same as above ↑

Habitat Characteristics

Aquatic Vegetation Present: Yes No

If Yes, Describe: monocult, algae, duckweed, horsetail

Aquatic Organisms Observed: Yes No

If Yes, Describe: _____

Terrestrial Organisms Observed: Yes No

If Yes, Describe: _____

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Right: active hay field and mixed deciduous forest

Left: active hay field and wetland A648

Associated Wetland Present: Yes No

If Yes, ID: wetland A648 and A649

Associated Artificial Drain(s) Present: Yes No

If Yes, ID: AD707 and AD708

Supplemental Notes & Comments:

Ditch Data Form

Ditch Field ID: DT- A608
Data Point ID: DP- 801 **Date:** 4/5/17
Project Name: Ball Hill Wind Project
Evaluator(s): B. Vicks and N. Outcher
County: Chautauqua **State:** NY
Jurisdictional: Yes No
Lat: 42.503531 **Long:** -79.150129

Jurisdictional Determination Criteria		
Yes	No	Jurisdictional Attribute
X		1) Defined Bed and Bank/Channel Present
X		2) Ordinary High Water Mark Present
X		3) Direct or Indirect Connection to a Traditional Navigable Water
		4) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
X		a) Presence of Relatively Permanent Flowing or Standing Water
	X	b) A Natural Stream That Has Been Altered
	X	c) Excavated in a Jurisdictional WOTUS
X		d) Connects Two or More Jurisdictional WOTUS
	X	e) Drains Natural Water Bodies (including wetlands) into the tributary system of a TNW

Hydrologic Characteristics

Surface Water: Present Absent
Perceptible Flow: Present Absent
Water Depth at Thalweg: 4"
Wetted Perimeter Width: 4'
Flow/Gradient Direction: North

Geomorphologic Characteristics

Primary Substrate Class: Silt/clay

	Width (ft.)	
	at DP	Max
OHWM	3'	4'
Top of Bank	10'	15'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: 1:1
Right: 1:1

Ditch Data Form

Data Point ID: DP-801

Bank Stability Summary

Left Bank: Some sediment deposit from bank, but overall stable due to low slope and presence of some vegetation

Right Bank: ↑ some as above ↑

Habitat Characteristics

Aquatic Vegetation Present: Yes No

If Yes, Describe: Moneywort, duckweed

Aquatic Organisms Observed: Yes No

If Yes, Describe: _____

Terrestrial Organisms Observed: Yes No

If Yes, Describe: _____

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Right: Secondary deciduous tree/shrub forest

Left: Active hay field

Associated Wetland Present: Yes No

If Yes, ID: Wetland A648 and A649

Associated Artificial Drain(s) Present: Yes No

If Yes, ID: A0-A707 and A0-A708

Supplemental Notes & Comments:

Constructed ditch along edges of agricultural/hay field receiving water from overland sheet flow and wetlands A648 and A649 that are discharging into ditch. Ditch is relatively stable due to constant maintenance by farmer and gradual 30-45% slope along bank.

Ditch Data Form

Ditch Field ID: DT-A709
Data Point ID: DP-805 **Date:** 4/5/17
Project Name: Ball Hill Wind Project
Evaluator(s): B. Virts and N. Duzher
County: Chautauqua **State:** NY
Jurisdictional: Yes No
Lat: 42.426653 **Long:** -79.163573

Jurisdictional Determination Criteria		
Yes	No	Jurisdictional Attribute
X		1) Defined Bed and Bank/Channel Present
X		2) Ordinary High Water Mark Present
X		3) Direct or Indirect Connection to a Traditional Navigable Water
		4) Supplementing Attributes (Must Satisfy At Least 1 of 5 Below)
	X	a) Presence of Relatively Permanent Flowing or Standing Water
	X	b) A Natural Stream That Has Been Altered
	X	c) Excavated in a Jurisdictional WOTUS
X		d) Connects Two or More Jurisdictional WOTUS
X		e) Drains Natural Water Bodies (including wetlands) into the tributary system of a TNW

Hydrologic Characteristics

Surface Water: Present Absent
Perceptible Flow: Present Absent
Water Depth at Thalweg: 3"
Wetted Perimeter Width: 4'
Flow/Gradient Direction: West

Geomorphologic Characteristics

Primary Substrate Class: silt

	Width (ft.)	
	at DP	Max
OHWM	3'	5'
Top of Bank	4'	6'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:
Left: 1:1
Right: 1:1

Ditch Data Form

Data Point ID: DP- 805

Bank Stability Summary

Left Bank: Stable - highly vegetated

Right Bank: Stable - highly vegetated

Habitat Characteristics

Aquatic Vegetation Present: Yes No

If Yes, Describe: many warts, duckweed

Aquatic Organisms Observed: Yes No

If Yes, Describe: _____

Terrestrial Organisms Observed: Yes No

If Yes, Describe: _____

Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Right: 0-80' - Asphalt main road

80'-150'+ - Private property - farmyard

Left: 0-150'+ - Deciduous forest

Associated Wetland Present: Yes No

If Yes, ID: _____

Associated Artificial Drain(s) Present: Yes No

If Yes, ID: A0-A709 and A710

Supplemental Notes & Comments:

Jurisdictional roadside ditch, flow from outfall of stock pond on private property off site.

Town snow plow has pushed gravel and dirt into ditch.

Appendix D

Photo Log

Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No.: 150001
--	--	-------------------------------

Photo No. 1

Data Point 13
Facing East

Description:
Overview of Wetland C1 from PEM Data Point 13.



Photo No. 2

Data Point 14
Facing West

Description:
Upland Data Point 14 adjacent to Wetland C1.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 3

Data Point 15
Facing West

Description:
PEM Wetland Data
Point 15 for Wetland
D1.



Photo No. 4

Data Point 16
Facing East

Description:
Upland Data Point 16
for Wetland D1.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No.: 150001
--	--	-------------------------------

Photo No. 5	
Data Point 19 Facing East	
Description: PSS Wetland Data Point 19 for Wetland F1.	

Photo No. 6	
Data Point 20 Facing West	
Description: Upland Data Point 20 adjacent to Wetland F1.	

Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 7

Data Point 21
Facing East

Description:
PEM Wetland Data Point 21 for Wetland G1.



Photo No. 8

Data Point 22
Facing East

Description:
PEM Wetland Data Point 22 for Wetland H2.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 9	
Data Point 23 Facing West	
Description: Upland Data Point 23 adjacent to Wetland F1, Wetland H1, Wetland I1 and Wetland I2.	

Photo No. 10	
Data Point 24 Facing North	
Description: PEM Wetland Data Point for Wetlands I1 and I2.	

Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 11

Data Point 26
Facing East

Description:
PEM Wetland Data Point for Wetland J1.



Photo No. 12

Data Point 27
Facing West

Description:
Upland Data Point 27 adjacent to Wetland J1.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 13

Data Point 28
Facing East

Description:
PEM Wetland Data Point for Wetland J2.



Photo No. 14

Data Point 29
Facing East

Description:
Upland Data Point 29 adjacent to Wetland J2.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 15

Data Point 30
Facing East

Description:
PEM Wetland Data
Point 30 for Wetland J3.



Photo No. 16

Data Point 31
Facing West

Description:
Upland Data Point 31
for Wetland J3.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 17

Data Point 32
Facing West

Description:
PEM Wetland Data
Point 32 for Wetland J4.



Photo No. 18

Data Point 33
Facing East

Description:
Upland Data Point 33
adjacent to Wetland J4.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 19

Data Point 38
Facing West

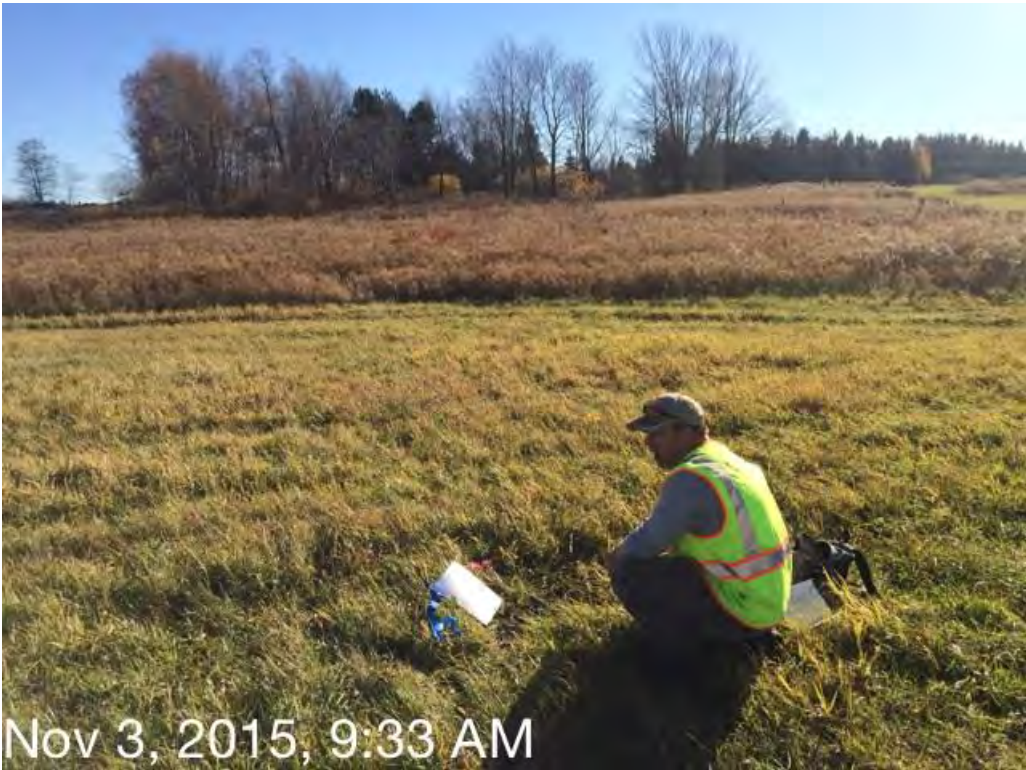
Description:
PEM Wetland Data
Point 38 from Wetland
K3.



Photo No. 20

Data Point 39
Facing East

Description:
Upland Data Point 39
adjacent to Wetland K3.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 21

Data Point 40
Facing South

Description:
PEM Wetland Data
Point 40 for Wetland L1.



Photo No. 22

Data Point 41
Facing West

Description:
Upland Data Point 41
adjacent to Wetland L1.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 23

Data Point 42
Facing North

Description:
PEM Wetland Data
Point 42 for Wetland L2.



Photo No. 24

Data Point 43
Facing South

Description:
Upland Data Point 43
adjacent to Wetland L2.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 25

Data Point 44
Facing East

Description:
PEM Wetland Data
Point 44 for wetland M1.



Photo No. 26

Data Point 45
Facing West

Description:
Upland Data Point 45
adjacent to Wetland M1.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 27

Data Point 46
Facing North

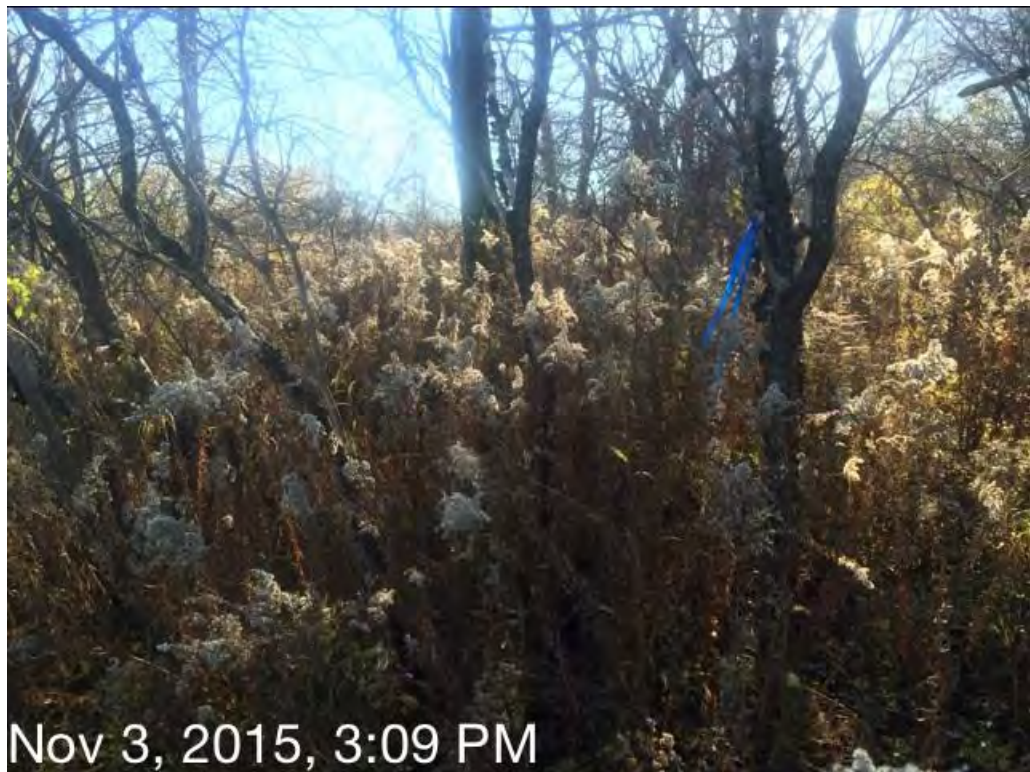
Description:
PEM Wetland Data
Point 46 for Wetland N1



Photo No. 28

Data Point 47
Facing South

Description:
Upland Data Point 47
for Wetland N1



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 29

Data Point 48
Facing West

Description:
PEM Wetland Data
Point 48 for Wetland
O1.



Photo No. 30

Data Point 49
Facing East

Description:
Upland Data Point 49
adjacent to Wetland O1.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 31	
Data Point 52 Facing West	
Description: PSS Wetland Data Point 52 for Wetland Q1.	

Photo No. 32	
Data Point 53 Facing East	
Description: Upland Data Point 53 adjacent to Wetland Q1.	

Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No.: 150001
--	--	-------------------------------

Photo No. 33	 <p>11/04/2015</p>
Data Point 54 Facing West / Upstream	
Description: Stream Data Point for Stream 10.	

Photo No. 34	 <p>11/04/2015</p>
Data Point 54 Facing East / Downstream	
Description: Stream Data Point for Stream 10.	

Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No.: 150001
--	--	-------------------------------

Photo No. 35

Data Point 54
Facing North /
Right Bank to Left Bank

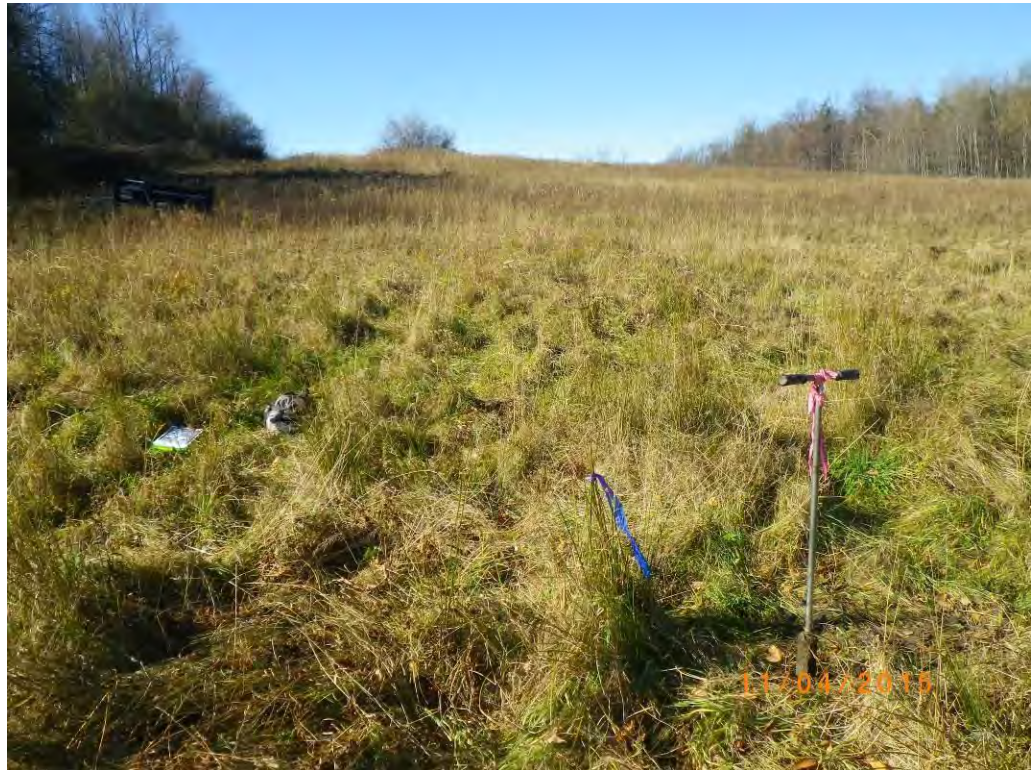
Description:
Stream Data Point for
Stream 10.



Photo No. 36

Data Point 55
Facing West

Description:
PEM Wetland Data
Point 55 for Wetland
R1.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No.: 150001
--	--	-------------------------------

Photo No. 37	
Data Point 56 Facing East	
Description: Upland Data Point 56 adjacent to Wetland R1.	

Photo No. 38	
Data Point 57 Facing West	
Description: PEM Data Point 57 for Wetland S1.	

Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 39

Data Point 58
Facing East

Description:
Upland Data Point 58 adjacent to Wetland S1.



Photo No. 40

Data Point 61
Facing West

Description:
PEM Wetland Data Point 61 for Wetland U1.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 41

Data Point 62
Facing East

Description:
Upland Data Point 62 adjacent to Wetland U1.



Photo No. 42

Data Point 63
Facing South /
Upstream

Description:
Stream Data Point for
Stream 11.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No.: 150001
--	--	-------------------------------

Photo No. 43	 A photograph of a stream in a wooded area with many fallen yellow leaves on the banks. A pink survey flag is visible in the background. A date stamp '11/05/2015' is in the bottom right corner.
Data Point 63 Facing North / Downstream	
Description: Stream Data Point for Stream 11.	

Photo No. 44	 A photograph of a stream with a black corrugated pipe outlet on the left bank. A pink survey flag is placed near the pipe. The banks are covered in grass and fallen leaves. A date stamp '11/05/2015' is in the bottom right corner.
Data Point 63 Facing West / Right Bank to Left Bank	
Description: Stream Data Point for Stream 11.	

Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 45

Data Point 64
Facing East

Description:
PEM Wetland Data Point 64 for Wetland V1.



Photo No. 46

Data Point 65
Facing West

Description:
Upland Data Point 65 adjacent to Wetland V1.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No.: 150001
--	--	-------------------------------


Photo No. 47	 <p>11/05/2015</p>
Data Point 69 Facing South / Upstream	
Description: Stream Data Point for Stream 13.	

Photo No. 48	 <p>11/05/2015</p>
Data Point 69 Facing North / Downstream	
Description: Stream Data Point for Stream 13.	

Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No.: 150001
--	--	-------------------------------

Photo No. 49	
Data Point 69 Facing West / Right Bank to Left Bank	
Description: Stream Data Point for Stream 13.	

Photo No. 50	
Data Point 72 Facing South / Upstream	
Description: Stream Data Point for Stream 14.	

Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 51

Data Point 72
Facing North /
Downstream

Description:
Stream Data Point for
Stream 14.



Photo No. 52

Data Point 72
Facing West /
Right Bank to Left Bank

Description:
Stream Data Point for
Stream 14.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No.: 150001
--	--	-------------------------------

Photo No. 53	 A close-up photograph of a stream channel. The water is dark and still, reflecting the surrounding vegetation. The banks are heavily overgrown with tall, thin, brownish reeds and grasses. Some yellow leaves are scattered on the water's surface. A blue plastic strip is visible on the right bank. An orange date stamp '11/06/2015' is in the bottom right corner.
Data Point 73 Facing West / Upstream	
Description: Stream Data Point for Stream 15.	

Photo No. 54	 A wider photograph of a stream channel. The water is dark and still, reflecting the sky and the surrounding vegetation. The banks are heavily overgrown with tall, thin, brownish reeds and grasses. An orange date stamp '11/06/2015' is in the bottom right corner.
Data Point 73 Facing East / Downstream	
Description: Stream Data Point for Stream 15.	

Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 55

Data Point 73
Facing North /
Right Bank to Left Bank

Description:
Stream Data Point for
Stream 15.



Photo No. 56

Data Point 74
Facing North

Description:
PSS Wetland Data
Point 74 for Wetland
V3.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No.: 150001
--	--	-------------------------------

Photo No. 57	
Data Point 77 Facing South	
Description: PFO Wetland Data Point for Wetland W1.	

Photo No. 58	
Data Point 78 Facing North	
Description: Upland Data Point 78 adjacent to Wetland W1.	

Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 59	
Data Point 81 Facing Northwest	
Description: PEM Wetland Data Point 81 for Wetland X1.	

Photo No. 60	
Data Point 82 Facing Southeast	
Description: Upland Data Point 82 adjacent to Wetland X1.	

Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 61

Data Point 86
Facing North

Description:
PFO Wetland Data
Point 86 for Wetland
Y2.



Photo No. 62

Data Point 87
Facing South

Description:
Upland Data Point 87
adjacent to Wetland Y2.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No.: 150001
--	--	-------------------------------

Photo No. 63

Data Point 90
Facing West /
Upstream

Description:
Stream Data Point for
Stream 18.



Photo No. 64

Data Point 90
Facing East /
Downstream

Description:
Stream Data Point for
Stream 18.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 65

Data Point 90
Facing North /
Right Bank to Left Bank

Description:
Stream Data Point for
Stream 18.



Photo No. 66

Data Point 91
Facing North

Description:
PEM Wetland Data
Point 91 for Wetland
A5.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No.: 150001
--	--	-------------------------------

Photo No. 67

Data Point 92
Facing South

Description:
Upland Data Point 92 for Wetland A5.



Photo No. 68

Data Point 93
Facing North

Description:
PEM Wetland Data Point 93 for Wetland A6.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 69

Data Point 94
Facing South

Description:
Upland Data Point 94 adjacent to Wetland A6.



Photo No. 70

Data Point 95
Facing West /
Upstream

Description:
Stream Data Point for Stream 19.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 71

Data Point 95
Facing East /
Downstream

Description:
Stream Data Point for
Stream 19.



Photo No. 72

Data Point 95
Facing North /
Left Bank to Right Bank

Description:
Stream Data Point for
Stream 19.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No.: 150001
--	--	-------------------------------

Photo No. 73

Data Point 99
Facing Southeast

Description:
PEM Wetland Data Point 99 for Wetland A8.



Photo No. 74

Data Point 100
Facing South

Description:
Upland Data Point 100 for Wetland A8.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 75

Data Point 101
Facing Southwest

Description:
PEM Wetland Data Point 101 for Wetland A9.



Photo No. 76

Data Point 102
Facing Northeast

Description:
Upland Data Point 102 adjacent Wetland A9.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No.: 150001
--	--	-------------------------------

Photo No. 77

Data Point 103
Facing East

Description:
PEM Wetland Data Point 103 for Wetland A10.



Photo No. 78

Data Point 104
Facing West

Description:
Upland Data Point 104 adjacent to Wetland A10.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 79	
Data Point 200 Facing North	
Description: Overview of PEM portion of Wetland A200 from PEM Data Point 200.	

Photo No. 80	
Data Point 201 Facing Southeast	
Description: Overview of PSS portion of Wetland A200 from PSS Data Point 201.	

Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No.: 150001
--	--	-------------------------------

Photo No. 81

Data Point 202
Facing Southeast

Description:
Overview of PFO portion of Wetland A200 from PFO Data Point 202



Photo No. 82

Data Point 203
Facing East

Description:
Overview of Uplands adjacent to Wetland A200.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No.: 150001
--	--	-------------------------------

Photo No. 83

Data Point 204
Facing West

Description:
Overview of Wetland A201 from PEM Data Point 204.



Photo No. 84

Data Point 205
Facing East

Description:
Overview of Uplands adjacent to Wetland A201 from Data Point 205.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 85

Data Point 206
Facing Southwest

Description:
Overview of Wetland A202 from PEM Data Point 206.



Photo No. 86

Data Point 207
Facing Southeast

Description:
Overview of Uplands adjacent to Wetlands A202 and A203 from Data Point 207.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No.: 150001
--	--	-------------------------------

Photo No. 87

Data Point 208
Facing Northwest

Description:

Overview of Wetland A203 from PEM Data Point 208.



Photo No. 88

Data Point 209
Facing West

Description:

Overview of PSS portion of Wetland A203 from PSS Data Point 209.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 89

Data Point 211
Facing Upstream/
Northeast

Description:
Stream Data Point for
Stream A200.



Photo No. 90

Data Point 211
Facing Northwest /
Downstream

Description:
Stream Data Point for
Stream A200.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 91

Data Point 211
Facing Southeast /
Right Bank to Left Bank

Description:
Stream Data Point for
Stream A200.



Photo No. 92

Data Point 213
Facing Northwest

Description:
Overview of Wetland
A204 from PEM Data
Point 213.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No.: 150001
--	--	-------------------------------

Photo No. 93

Data Point 214
Facing South

Description:
Overview of Wetland A205 from PFO Data Point 214.



Photo No. 94

Data Point 215
Facing East

Description:
Overview of Uplands adjacent to Wetland A204 and Wetland A205 from Data Point 215.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No.: 150001
--	--	-------------------------------

Photo No. 95	
Data Point 216 Facing Southwest	
Description: Overview of Wetland A206 from PEM Data Point 216.	

Photo No. 96	
Data Point 222 Facing East / Upstream	
Description: Stream Data Point for Stream A202.	

Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------


Photo No. 97	 <p>05.24.2016 08:49</p>
Data Point 222 Facing West / Downstream	
Description: Stream Data Point for Stream A202.	

Photo No. 98	 <p>05.24.2016 08:49</p>
Data Point 222 Facing North / Left to Right Bank	
Description: Stream Data Point for Stream A202.	

Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 99	
Data Point 224 Facing West	
Description: Overview of Wetland A209 from PEM Data Point 224.	

Photo No. 100	
Data Point 225 Facing East	
Description: Overview of Uplands adjacent to Wetland A209 from Data Point 225.	

Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No.: 150001
--	--	-------------------------------

Photo No. 101	
Data Point 226 Facing North	
Description: Overview of Uplands adjacent to Wetland A209, Wetland A210 and Wetland A211 from Data Point 226.	

Photo No. 102	
Data Point 227 Facing West	
Description: Overview of Wetland A10 from PEM Data Point 227	

Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No.: 150001
--	--	-------------------------------

Photo No. 103

Data Point 228
Facing West

Description:
Overview of Wetland A211 from PEM Data Point 228.



Photo No. 104

Data Point 229
Facing East

Description:
Overview of Wetland A212 from PEM Data Point 229.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 105	
Data Point 230 Facing West	
Description: Overview of Wetland A213 from PSS Data Point 230.	

Photo No. 106	
Data Point 231 Facing North	
Description: Overview of Uplands adjacent to Wetland A213 from Data Point 231.	

Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No.: 150001
--	--	-------------------------------

Photo No. 107	
Data Point 232 Facing South	
Description: Overview of Wetland A214 from PEM Data Point 232.	

Photo No. 108	
Data Point 233 Facing South	
Description: Overview of PEM portion of Wetland A215 from PEM Data Point 233.	

Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No.: 150001
--	--	-------------------------------

Photo No. 109

Data Point 234
Facing North

Description:
Overview of PSS portion of Wetland A215 from PSS Data Point 234.



Photo No. 110

Data Point 235
Facing West

Description:
Overview of Wetland A216 from PSS Data Point 235.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 111	
Data Point 236 Facing South	
Description: Overview of Uplands adjacent to Wetland A215 and Wetland A216 from Data Point 236.	

Photo No. 112	
Data Point 238 Facing North	
Description: Overview of Wetland A217 from PEM Data Point 238.	

Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 113	
Data Point 239 Facing West	
Description: Overview of Uplands adjacent to Wetland A217 and Wetland A218.	

Photo No. 114	
Data Point 240 Facing South	
Description: Overview of Wetland A218 from PSS Data Point 240.	

Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 115

Data Point 241
Facing East

Description:
Overview of Uplands adjacent to Wetland A212 from Data Point 241.



Photo No. 116

Data Point 242
Facing South

Description:
Overview of Wetland A219 from PEM Data Point 242.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 117

Data Point 243
Facing South /
Upstream

Description:
Stream Data Point for
Stream A203.



Photo No. 118

Data Point 243
Facing North /
Downstream

Description:
Stream Data Point for
Stream A203.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 119	
Data Point 243 Facing West / Left Bank to Right Bank	
Description: Stream Data Point for Stream A203.	

Photo No. 120	
Data Point 244 Facing West	
Description: Overview of Wetland A220 from PEM Data Point 244.	

Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No.: 150001
--	--	-------------------------------

Photo No. 121

Data Point 245
Facing East

Description:
Overview of Uplands adjacent to Wetland A220 from Data Point 245.



Photo No. 122

Data Point 247
Facing South

Description:
Overview of Wetland A221 from PEM Data Point 247.



Project Name:
Ball Hill Wind Project

Site Location:
Chautauqua County, NY

Project No.
150001

Photo No. 123

Data Point 248
Facing East

Description:

Overview of Wetland
A222 from PEM Data
Point 248.



Photo No. 124

Data Point 249
Facing Northwest /
Upstream

Description:

Stream Data Point for
Stream A204.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No.: 150001
--	--	-------------------------------

Photo No. 125

Data Point 249
Facing Downstream/
Southeast

Description:
Stream Data Point for
Stream A204.



Photo No. 126

Data Point 249
Facing Southwest / Left
Bank to Right Bank

Description:
Stream Data Point for
Stream A204.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 127	
Data Point 250 Facing North	
Description: Overview of Uplands adjacent to Wetland A221, Wetland A222 and Wetland A223 from Data Point 250.	

Photo No. 128	
Data Point 252 Facing South	
Description: Overview of Wetland A223 from PEM Data Point 252.	

Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No.: 150001
--	--	-------------------------------

Photo No. 129

Data Point 253
Facing East

Description:
Overview of Wetland A224 from PEM Data Point 253.



Photo No. 130

Data Point 254
Facing East

Description:
Overview of Wetland A225 from PEM Data Point 254.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 131	
Data Point 255 Facing East	
Description: Overview of Wetland A226 from PEM Data Point 255.	

Photo No. 132	
Data Point 256 Facing West	
Description: Overview of Uplands adjacent to Wetland A224, Wetland A225 and Wetland A226 from Data Point 256.	

Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 133	
Data Point 257 Facing West	
Description: Overview of Wetland A227 from PEM Data Point 257.	

Photo No. 134	
Data Point 258 Facing South	
Description: Overview of Wetland A228 from PEM Data Point 258.	

Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No.: 150001
--	--	-------------------------------

Photo No. 135	
Data Point 259 Facing South	
Description: Overview of Uplands adjacent to Wetland A227, Wetland A228, and Wetland A229 from Data Point 259.	

Photo No. 136	
Data Point 261 Facing South / Upstream	
Description: Stream Data Point for Stream A204.	

Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 137

Data Point 261
Facing North /
Downstream

Description:
Stream Data Point for
Stream A204.



Photo No. 138

Data Point 261
Facing West /
Right Bank to Left Bank

Description:
Stream Data Point for
Stream A204.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 139

Data Point 263
Facing West

Description:
Overview of Uplands near proposed T11 location from Data Point 263.



Photo No. 140

Data Point 265
Facing North

Description:
Overview of Wetland A230 from PEM Data Point 265.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 141	
Data Point 266 Facing East	
Description: Overview of Wetland A231 from PEM Data Point 266.	

Photo No. 142	
Data Point 267 Facing East	
Description: Overview of Uplands adjacent to Wetland A230 and Wetland A231 from Data Point 267.	

Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No.: 150001
--	--	-------------------------------

Photo No. 143

Data Point 269
Facing East

Description:
Overview of Wetland A232 from PEM Data Point 269.



Photo No. 144

Data Point 270
Facing East

Description:
Overview of Wetland A233 from PEM Data Point 270.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 145

Data Point 271
Facing East

Description:
Overview of Uplands adjacent to Wetlands A232 and A233 from Data Point 271.



Photo No. 146

Data Point 272
Facing West /
Upstream

Description:
Stream Data Point for Stream A205.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 147

Data Point 272
Facing East /
Downstream

Description:
Stream Data Point for
Stream A205.



Photo No. 148

Data Point 272
Facing South /
Left Bank to Right Bank

Description:
Stream Data Point for
Stream A205.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------


Photo No. 149	
Data Point 273 Facing East	
Description: Overview of Wetland A234 from PEM Data Point 273.	

Photo No. 150	
Data Point 274 Facing West	
Description: Overview of Wetland A235 from PEM Data Point 274.	

Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 151	
Data Point 275 Facing north / Upstream	
Description: Stream Data Point for Stream A206.	

Photo No. 152	
Data Point 275 Facing South / Downstream	
Description: Stream Data Point for Stream A206.	

Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 153

Data Point 275
Facing West /
Left Bank to Right Bank

Description:
Stream Data Point for
Stream A206.



Photo No. 154

Data Point 276
Facing East

Description:
Overview of Wetland
A236 from PEM Data
Point 276.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No.: 150001
--	--	-------------------------------

Photo No. 155	
Data Point 277 Facing South	
Description: Overview of Wetland A236 from PSS Data Point 277.	

Photo No. 156	
Data Point 278 Facing South / Upstream	
Description: Stream Data Point for Stream A207.	

Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No.: 150001
--	--	-------------------------------

Photo No. 157	
Data Point 278 Facing North / Downstream	
Description: Stream Data Point for Stream A207.	

Photo No. 158	
Data Point 278 Facing East / Right Bank to Left Bank	
Description: Stream Data Point for Stream A207.	

Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 159	
Data Point 279 Facing North	
Description: Overview of Uplands adjacent to Wetland A235 and Wetland 236 from Data Point 279.	

Photo No. 160	
Data Point 285 Facing East / Upstream	
Description: Stream Data Point for Stream AA209.	

Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 161

Data Point 285
Facing West /
Downstream

Description:
Stream Data Point for
Stream AA209.



Photo No. 162

Data Point 285
Facing South /
Right Bank to Left Bank

Description:
Stream Data Point for
Stream AA209.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 163

Data Point 286
Facing South /
Upstream

Description:
Stream Data Point for
Stream A208.



Photo No. 164

Data Point 286
Facing North /
Downstream

Description:
Stream Data Point for
Stream A208.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No.: 150001
--	--	-------------------------------

Photo No. 165

Data Point 286
Facing West /
Right Bank to Left Bank

Description:
Stream Data Point for
Stream A208.



Photo No. 166

Data Point 287
Facing East /
Upstream

Description:
Stream Data Point for
Stream A210.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No.: 150001
--	--	-------------------------------

Photo No. 167

Data Point 287
Facing West /
Downstream

Description:
Stream Data Point for
Stream A210.



Photo No. 168

Data Point 287
Facing South /
Right Bank to Left Bank

Description:
Stream Data Point for
Stream A210.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No.: 150001
--	--	-------------------------------

Photo No. 169	
Data Point 288 Facing South / Upstream	
Description: Stream Data Point for Stream A211.	

Photo No. 170	
Data Point 288 Facing North / Downstream	
Description: Stream Data Point for Stream A211.	

Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 171

Data Point 288
Facing West /
Right Bank to Left Bank

Description:
Stream Data Point for
Stream A211.



Photo No. 172


Data Point 289
Facing East

Description:
Overview of Wetland
A237 from PEM Data
Point 289.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No.: 150001
--	--	-------------------------------

Photo No. 173	 <p>06.03.2016 09:21</p>
Data Point 290 Facing North	
Description: Overview of Uplands adjacent to Wetland A237 and Wetland A238 from Data Point 290.	

Photo No. 174	 <p>06.03.2016 11:22</p>
Data Point 291 Facing South	
Description: Overview of Wetland A238 from PEM Data Point 291.	

Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 175	
Data Point 292 Facing East	
Description: Overview of Wetland A238 from PSS Data Point 292.	

Photo No. 176	
Data Point 293 Facing East / Upstream	
Description: Stream Data Point for Stream A212.	

Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No.: 150001
--	--	-------------------------------

Photo No. 177

Data Point 293
Facing West /
Downstream

Description:
Stream Data Point for
Stream A212.



Photo No. 178

Data Point 293
Facing South /
Right Bank to Left Bank

Description:
Stream Data Point for
Stream A212.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 179

Data Point 294
Facing East /
Upstream

Description:
Stream Data Point for
Stream A213.



Photo No. 180

Data Point 294
Facing West /
Downstream

Description:
Stream Data Point for
Stream A213.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 181

Data Point 294
Facing South /
Right Bank to Left Bank

Description:
Stream Data Point for
Stream A213.



Photo No. 182

Data Point 295
Facing East

Description:
Overview of Wetland
A239 from PEM Data
Point 295.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No.: 150001
--	--	-------------------------------

Photo No. 183

Data Point 296
Facing South

Description:
Overview of Wetland A239 from PFO Data Point 296.



Photo No. 184

Data Point 297
Facing West

Description:
Overview of Uplands Adjacent to Wetlands A238 and A239 from Data Point 297.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 185

Data Point 500
Facing South

Description:
PEM Wetland Data
Point for Wetland A500



Photo No. 186

Data Point 501
Facing North

Description:
Upland Data Point for
Wetland A500



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 187

Data Point 502
Facing East /
Upstream

Description:
Stream Data Point for
Stream A500



Photo No. 188

Data Point 502
Facing West /
Downstream

Description:
Stream Data Point for
Stream A500



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No.: 150001
--	--	-------------------------------

Photo No. 189

Data Point 502
Facing North /
Right Bank to Left Bank

Description:
Stream Data Point for
Stream A500



Photo No. 190

Data Point 503
Facing North

Description:
PSS/PEM Wetland Data
Point for Wetland A501.



Project Name: Ball Hill Wind Project	Site Location: Chautauqua County, NY	Project No. 150001
--	--	------------------------------

Photo No. 191

Data Point 504
Facing North /
Upstream

Description:
Stream Data Point for
Stream A501.



Photo No. 192

Data Point 504
Facing South /
Downstream

Description:
Stream Data Point for
Stream A501.

