Full Environmental Assessment Form Part 1 - Project and Setting

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the project sponsor to verify that the information contained in Part 1 is accurate and complete.

A. Project and Sponsor Information.

Name of Action or Project:		
Project Location (describe, and attach a general location map):		
Brief Description of Proposed Action (include purpose or need):		
Name of Applicant/Sponsor:	Telephone:	
Tunic of Applicant Sponsor.		
	E-Mail:	
Address:		
Addicss.		
City/PO:	State:	Zip Code:
City/1 O.	State.	Zip code.
Project Contact (if not same as sponsor; give name and title/role):	Telephone:	
Troject Contact (ii not same as sponsor, grit name and track role).		
	E-Mail:	
Address:	L	
Audicos.		
CI. TO	Lac	7' 0 1
City/PO:	State:	Zip Code:
Property Owner (if not same as sponsor):	Telephone:	
	E-Mail:	
	L-Man.	
Address:		
City/PO:	State:	Zip Code:
		_

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.)			
Government Entity	If Yes: Identify Agency and Approval(s) Required	Application (Actual or p	
a. City Council, Town Board, ☐ Yes ☐ No or Village Board of Trustees			
b. City, Town or Village ☐ Yes ☐ No Planning Board or Commission			
c. City Council, Town or ☐ Yes ☐ No Village Zoning Board of Appeals			
d. Other local agencies □ Yes □ No			
e. County agencies □ Yes □ No			
f. Regional agencies □ Yes □ No			
g. State agencies □ Yes □ No			
h. Federal agencies □ Yes □ No			
i. Coastal Resources.i. Is the project site within a Coastal Area, or	or the waterfront area of a Designated Inland Wat	erway?	□ Yes □ No
ii. Is the project site located in a communityiii. Is the project site within a Coastal Erosion	with an approved Local Waterfront Revitalization Hazard Area?	n Program?	□ Yes □ No □ Yes □ No
C. Planning and Zoning			
C.1. Planning and zoning actions.			
only approval(s) which must be granted to ena • If Yes, complete sections C, F and G.	mendment of a plan, local law, ordinance, rule or ble the proposed action to proceed? mplete all remaining sections and questions in Par	•	□ Yes □ No
C.2. Adopted land use plans.			
a. Do any municipally- adopted (city, town, vil where the proposed action would be located?	lage or county) comprehensive land use plan(s) in	nclude the site	□ Yes □ No
	ecific recommendations for the site where the pro	posed action	□ Yes □ No
	local or regional special planning district (for examated State or Federal heritage area; watershed ma		□ Yes □ No
c. Is the proposed action located wholly or part or an adopted municipal farmland protectio If Yes, identify the plan(s):	tially within an area listed in an adopted municipan plan?	d open space plan,	□ Yes □ No

C.3. Zoning	
a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. If Yes, what is the zoning classification(s) including any applicable overlay district?	□ Yes □ No
b. Is the use permitted or allowed by a special or conditional use permit?	□ Yes □ No
c. Is a zoning change requested as part of the proposed action? If Yes,	□ Yes □ No
i. What is the proposed new zoning for the site?	
C.4. Existing community services.	
a. In what school district is the project site located?	
b. What police or other public protection forces serve the project site?	
c. Which fire protection and emergency medical services serve the project site?	
d. What parks serve the project site?	
D. Project Details	
D.1. Proposed and Potential Development	
a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed components)?	, include all
b. a. Total acreage of the site of the proposed action? acres	
b. Total acreage to be physically disturbed? acres c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? acres	
c. Is the proposed action an expansion of an existing project or use?	□ Yes □ No
i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, square feet)? % Units:	housing units,
d. Is the proposed action a subdivision, or does it include a subdivision?	□ Yes □ No
If Yes, i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)	
ii. Is a cluster/conservation layout proposed?iii. Number of lots proposed?	□ Yes □ No
iv. Minimum and maximum proposed lot sizes? Minimum Maximum	
 e. Will proposed action be constructed in multiple phases? i. If No, anticipated period of construction: months ii. If Yes: 	□ Yes □ No
 Total number of phases anticipated Anticipated commencement date of phase 1 (including demolition) month year Anticipated completion date of final phase month year Generally describe connections or relationships among phases, including any contingencies where progress determine timing or duration of future phases: 	

	t include new resid				□ Yes □ No
If Yes, show num	bers of units propo				
	One Family	Two Family	Three Family	Multiple Family (four or more)	
Initial Phase					
At completion					
of all phases				- -	
D 4	1 1 1	• • • • •	1	1	- 77 - 77
	osed action include	new non-residentia	al construction (inclu	iding expansions)?	□ Yes □ No
If Yes,	of structures				
ii Dimensions (in feet) of largest p	ronosed structure:	height	width; andlength	
iii. Approximate	extent of building s	space to be heated	or cooled:	square feet	
				I result in the impoundment of any	□ Yes □ No
				result in the impoundment of any agoon or other storage?	⊔ res ⊔ No
If Yes,	s creation of a water	suppry, reservoir,	, pond, take, waste ia	igoon of other storage:	
	e impoundment:				
ii. If a water imp	e impoundment: oundment, the princ	cipal source of the	water:	☐ Ground water ☐ Surface water stream	s □ Other specify:
	· · ·				
iii. If other than w	vater, identify the ty	pe of impounded/o	contained liquids and	d their source.	
iv. Approximate	size of the proposed	d impoundment.	Volume:	million gallons; surface area:	acres
v. Dimensions o	f the proposed dam	or impounding str	ructure:	height; length	
				ructure (e.g., earth fill, rock, wood, conc	rete):
D.2. Project Op	erations				
			mine en desdeine de	i	D Vas D Na
				uring construction, operations, or both? or foundations where all excavated	□ Yes □ No
materials will r		mon, grading or in	stanation of utilities	or foundations where all excavated	
If Yes:	chiam onsite)				
	rnose of the excava	tion or dredging?			
				be removed from the site?	-
	nat duration of time?				
				ged, and plans to use, manage or dispose	of them.
iv. Will there be	onsite dewatering of	or processing of ex	cavated materials?		□ Yes □ No
y What is the to	otal area to be dredg	ed or excavated?		acres	
vi What is the m	naximum area to be	worked at any one	time?	acres	
		•		feet	
	vation require blast		,, areasing	1001	□ Yes □ No
		1			
				crease in size of, or encroachment	□ Yes □ No
•	ng wetland, waterbo	ody, shoreline, bea	ch or adjacent area?		
If Yes:			66 . 1.6		
				vater index number, wetland map number	
description):					

<i>ii.</i> Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placemalteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square	
iii. Will proposed action cause or result in disturbance to bottom sediments? If Yes, describe:	□ Yes □ No
iv. Will proposed action cause or result in the destruction or removal of aquatic vegetation?If Yes:	□ Yes □ No
acres of aquatic vegetation proposed to be removed:	
expected acreage of aquatic vegetation remaining after project completion:	
purpose of proposed removal (e.g. beach clearing, invasive species control, boat access):	
proposed method of plant removal:	
if chemical/herbicide treatment will be used, specify product(s):	
v. Describe any proposed reclamation/mitigation following disturbance:	
. Will the proposed action use, or create a new demand for water? EYes:	□ Yes □ No
i. Total anticipated water usage/demand per day: gallons/day	
ii. Will the proposed action obtain water from an existing public water supply?	□ Yes □ No
Yes:	
Name of district or service area:	
 Does the existing public water supply have capacity to serve the proposal? 	□ Yes □ No
• Is the project site in the existing district?	□ Yes □ No
• Is expansion of the district needed?	□ Yes □ No
• Do existing lines serve the project site?	□ Yes □ No
ii. Will line extension within an existing district be necessary to supply the project? Yes:	□ Yes □ No
Describe extensions or capacity expansions proposed to serve this project:	
Source(s) of supply for the district:	
iv. Is a new water supply district or service area proposed to be formed to serve the project site? , Yes:	□ Yes □ No
Applicant/sponsor for new district:	
Date application submitted or anticipated:	
Proposed source(s) of supply for new district:	
v. If a public water supply will not be used, describe plans to provide water supply for the project:	
vi. If water supply will be from wells (public or private), maximum pumping capacity: gallons/m	inute.
. Will the proposed action generate liquid wastes?	□ Yes □ No
f Yes:	
i. Total anticipated liquid waste generation per day: gallons/day	
ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe a approximate volumes or proportions of each):	
approximate volumes of proportions of each).	
i. Will the proposed action use any existing public wastewater treatment facilities? If Yes:	□ Yes □ No
Name of wastewater treatment plant to be used:	
Name of district:	
• Does the existing wastewater treatment plant have capacity to serve the project?	□ Yes □ No
• Is the project site in the existing district?	□ Yes □ No
• Is expansion of the district needed?	□ Yes □ No

Do existing sewer lines serve the project site?	□ Yes □ No
Will line extension within an existing district be necessary to serve the project?	\square Yes \square No
If Yes:	
Describe extensions or capacity expansions proposed to serve this project:	
<i>iv.</i> Will a new wastewater (sewage) treatment district be formed to serve the project site?	□ Yes □ No
If Yes:	
Applicant/sponsor for new district:	
Date application submitted or anticipated:	
What is the receiving water for the wastewater discharge?	
v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including spec	ifying proposed
receiving water (name and classification if surface discharge, or describe subsurface disposal plans):	
vi. Describe any plans or designs to capture, recycle or reuse liquid waste:	
e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point	\square Yes \square No
sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point	
source (i.e. sheet flow) during construction or post construction?	
If Yes: i. How much impervious surface will the project create in relation to total size of project parcel?	
Square feet or acres (impervious surface)	
Square feet or acres (parcel size)	
ii. Describe types of new point sources.	
iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent p	roperties,
groundwater, on-site surface water or off-site surface waters)?	
If to surface waters, identify receiving water bodies or wetlands:	
	
Will stormwater runoff flow to adjacent properties?	D Vac D Na
<i>iv.</i> Does proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater?	 □ Yes □ No □ Yes □ No
f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel	□ Yes □ No
combustion, waste incineration, or other processes or operations?	
If Yes, identify:	
<i>i.</i> Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)	
ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)	
iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)	
g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit,	□ Yes □ No
or Federal Clean Air Act Title IV or Title V Permit?	
If Yes:	
i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet	□ Yes □ No
ambient air quality standards for all or some parts of the year) ii In addition to emissions as calculated in the application, the project will generate:	
ii. In addition to emissions as calculated in the application, the project will generate:	
 Tons/year (short tons) of Carbon Dioxide (CO₂) Tons/year (short tons) of Nitrous Oxide (N₂O) 	
 lons/year (short tons) of Nitrous Oxide (N₂O) Tons/year (short tons) of Perfluorocarbons (PFCs) 	
 Tons/year (short tons) of Perhuorocarbons (PFCs) Tons/year (short tons) of Sulfur Hexafluoride (SF₆) 	
 Tons/year (short tons) of Suntir Hexandonide (SF₆) Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflourocarbons (HFCs) 	
Tons/year (short tons) of Carbon Bloxide equivalent of Trydronourocarbons (Tri-Cs) Tons/year (short tons) of Hazardous Air Pollutants (HAPs)	

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? If Yes:		
i. Estimate methane generation in tons/year (metric):ii. Describe any methane capture, control or elimination mean electricity, flaring):	asures included in project design (e.g., combustion to ge	enerate heat or
Will the proposed action result in the release of air pollutar quarry or landfill operations? If Yes: Describe operations and nature of emissions (e.g., die proposed action result in the release of air pollutar quarry or landfill operations?		□ Yes □ No
j. Will the proposed action result in a substantial increase in new demand for transportation facilities or services? If Yes: i. When is the peak traffic expected (Check all that apply): □ Randomly between hours of to	☐ Morning ☐ Evening ☐ Weekend 	□ Yes □ No
iv. Does the proposed action include any shared use parking v. If the proposed action includes any modification of exist	<u>5</u> ?	\square Yes \square No
vi. Are public/private transportation service(s) or facilities a vii Will the proposed action include access to public transpo or other alternative fueled vehicles?viii. Will the proposed action include plans for pedestrian or pedestrian or bicycle routes?	ortation or accommodations for use of hybrid, electric	□ Yes □ No □ Yes □ No □ Yes □ No
k. Will the proposed action (for commercial or industrial profor energy?If Yes:i. Estimate annual electricity demand during operation of the		□ Yes □ No
ii. Anticipated sources/suppliers of electricity for the project other):	t (e.g., on-site combustion, on-site renewable, via grid/lo	ocal utility, or
iii. Will the proposed action require a new, or an upgrade to,	an existing substation?	□ Yes □ No
Hours of operation. Answer all items which apply. i. During Construction:	 ii. During Operations: Monday - Friday: Saturday: Sunday: Holidays: 	

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction,	□ Yes □ No
operation, or both? If yes:	
i. Provide details including sources, time of day and duration:	
<i>ii.</i> Will proposed action remove existing natural barriers that could act as a noise barrier or screen?	□ Yes □ No
Describe:	
n Will the proposed action have outdoor lighting? If yes:	□ Yes □ No
i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:	
ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen?	□ Yes □ No
Describe:	
o. Does the proposed action have the potential to produce odors for more than one hour per day?	□ Yes □ No
If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest	
occupied structures:	
p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons)	□ Yes □ No
or chemical products 185 gallons in above ground storage or any amount in underground storage?	1 103 L NO
If Yes:	
i. Product(s) to be storedii. Volume(s) per unit time (e.g., month, year)	
iii. Generally describe proposed storage facilities:	
q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides,	□ Yes □ No
insecticides) during construction or operation? If Yes:	
<i>i.</i> Describe proposed treatment(s):	
	-
ii. Will the proposed action use Integrated Pest Management Practices?	□ Yes □ No
r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)?	□ Yes □ No
of solid waste (excluding nazardous materials)? If Yes:	
i. Describe any solid waste(s) to be generated during construction or operation of the facility:	
• Construction: tons per (unit of time)	
 Operation: tons per (unit of time) ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste: 	
Construction:	
Operation:	
iii. Proposed disposal methods/facilities for solid waste generated on-site:	
Construction:	
Operation:	

s. Does the proposed action include construction or mod If Yes:	ification of a solid waste ma	anagement facility?	□ Yes □ No	
i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or				
other disposal activities): ii. Anticipated rate of disposal/processing:				
Tons/month, if transfer or other non-	combustion/thermal treatme	ent, or		
Tons/hour, if combustion or thermal		, 01		
iii. If landfill, anticipated site life:	years			
t. Will proposed action at the site involve the commercia waste?	l generation, treatment, stor	rage, or disposal of hazardous	□ Yes □ No	
If Yes:				
i. Name(s) of all hazardous wastes or constituents to be	e generated, handled or man	aged at facility:		
<i>ii.</i> Generally describe processes or activities involving	hazardous wastes or constitu	ients:		
iii. Specify amount to be handled or generated tiv. Describe any proposals for on-site minimization, rec	ons/month cycling or reuse of hazardou	s constituents:		
v. Will any hazardous wastes be disposed at an existing If Yes: provide name and location of facility:			□ Yes □ No	
if ites, provide fiame and location of facility.				
If No: describe proposed management of any hazardous	wastes which will not be se	nt to a hazardous waste facility	/:	
	·			
E. Site and Setting of Proposed Action				
E.1. Land uses on and surrounding the project site				
 a. Existing land uses. i. Check all uses that occur on, adjoining and near the □ Urban □ Industrial □ Commercial □ Resident 	project site. dential (suburban) □ Rui	ral (non-farm)		
	r (specify):			
b. Land uses and covertypes on the project site.				
Land use or	Current	Acreage After	Change	
Covertype	Acreage	Project Completion	(Acres +/-)	
 Roads, buildings, and other paved or impervious surfaces 				
• Forested				
 Meadows, grasslands or brushlands (non- agricultural, including abandoned agricultural) 				
Agricultural				
(includes active orchards, field, greenhouse etc.)Surface water features				
(lakes, ponds, streams, rivers, etc.)				
Wetlands (freshwater or tidal)				
Non-vegetated (bare rock, earth or fill)				
Other				
• Other Describe:	İ			
Describe.				

i. If Yes: explain: d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? If Yes, i. Identify Facilities: e. Does the project site contain an existing dam? If Yes: i. Dimensions of the dam and impoundment: • Dam height: • Dam length: • Surface area: • Volume impounded: iii. Dam's existing hazard classification: iii. Provide date and summarize results of last inspection: If Yes: i. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility? If Yes: i. Has the facility been formally closed? • If Yes: i. Has the facility been formally closed? If Yes: iii. Describe any development constraints due to the prior solid waste activities: g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? If Yes: i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred: If Yes: i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred:	c. Is the project site presently used by members of the community for public recreation?	
day care centers, or group homes) within 1500 feet of the project site? If Yes, i. Identify Facilities:	i. If Yes: explain:	□ Yes □ No
e. Does the project site contain an existing dam? If Yes: i. Dimensions of the dam and impoundment: • Dam height: • Dam height: • Surface area: • Volume impounded: iii. Provide date and summarize results of last inspection: f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, Yes No or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? If Yes: i. Has the facility been formally closed? • If yes, cite sources/documentation: iii. Describe the location of the project site relative to the boundaries of the solid waste management facility: iiii. Describe any development constraints due to the prior solid waste activities: g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? If Yes: i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred: h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? If Yes: i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: Yes = Provide DEC ID number(s): Neither database Provide DEC ID number(s): Yes No Remediation database? Yes No Remediation database? No Remediation database Provide DEC ID number(s): Yes No Remediation database? Yes No Remediation database?	day care centers, or group homes) within 1500 feet of the project site? If Yes,	□ Yes □ No
If Yes: i. Dimensions of the dam and impoundment: Dam height: Dam height: Dam length: Da		
If Yes: i. Dimensions of the dam and impoundment: Dam height: Dam height: Dam length: Da	e. Does the project site contain an existing dam?	□ Yes □ No
Dam height: feet Dam length: feet Surface area: acres volume impounded: gallons OR acre-feet ii. Dam's existing hazard classification: gallons OR acre-feet iii. Provide date and summarize results of last inspection: gallons OR acre-feet iii. Provide date and summarize results of last inspection: Yes □ No or does the project site ever been used as a municipal, commercial or industrial solid waste management facility. □ Yes □ No or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? If Yes: If yes, cite sources/documentation: Yes □ No or does the facility been formally closed? □ Yes □ No If yes, cite sources/documentation: Iii. Describe the location of the project site relative to the boundaries of the solid waste management facility: Yes □ No If Yes: Iiii. Describe any development constraints due to the prior solid waste activities: Yes □ No If Yes: Iiii. Describe waste(s) handled and waste management activities, including approximate time when activities occurred: Yes □ No If Yes:	100 110	
Dam length: Surface area:	•	
Surface area:	· · · · · · · · · · · · · · · · · · ·	
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ii. Dam's existing hazard classification: iii. Provide date and summarize results of last inspection: F. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, Yes No or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? If Yes: I. Has the facility been formally closed? Yes No		
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or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? If Yes: i. Has the facility been formally closed? • If yes, cite sources/documentation: ii. Describe the location of the project site relative to the boundaries of the solid waste management facility: iii. Describe any development constraints due to the prior solid waste activities: g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? If Yes: i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred: Yes No remedial actions been conducted at or adjacent to the proposed site? If Yes: i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Yes No Remediation database? Check all that apply: Yes Spills Incidents database Provide DEC ID number(s): Yes Provide DEC ID number(s): Neither database Neither database Provide DEC ID number(s): Neither database Yes No Remediation database Provide DEC ID number(s): Neither database Yes No Remediation database Provide DEC ID number(s): Neither database Yes No Remediation datab		
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v. Is the project site subject to an institutional control limiting property uses?		□ Yes □ No
If yes, DEC site ID number:		
Describe the type of institutional control (e.g., deed restriction or easement): Describe any year limitations:		
 Describe any use limitations: Describe any engineering controls: 		
Will the project affect the institutional or engineering controls in place?		□ Yes □ No
Explain:		= 103 = 140
Explain.		
E.2. Natural Resources On or Near Project Site		
a. What is the average depth to bedrock on the project site?	feet	
	1001	
b. Are there bedrock outcroppings on the project site?	0/	□ Yes □ No
If Yes, what proportion of the site is comprised of bedrock outcroppings?	%	
c. Predominant soil type(s) present on project site:	%	
	%	
	%	
d. What is the average depth to the water table on the project site? Average:fe	eet	
e. Drainage status of project site soils: Well Drained: "% of site		
□ Moderately Well Drained:% of site		
□ Poorly Drained% of site		
f. Approximate proportion of proposed action site with slopes: 0-10%:	% of site	
□ 10-15%:	% of site	
□ 15% or greater:	% of site	
g. Are there any unique geologic features on the project site? If Yes, describe:		□ Yes □ No
h. Surface water features.		
i. Does any portion of the project site contain wetlands or other waterbodies (including str	reams, rivers,	□ Yes □ No
ponds or lakes)?		
ii. Do any wetlands or other waterbodies adjoin the project site?		\square Yes \square No
If Yes to either <i>i</i> or <i>ii</i> , continue. If No, skip to E.2.i.		
iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by	y any federal,	□ Yes □ No
state or local agency? iv. For each identified regulated wetland and waterbody on the project site, provide the fol	lowing information:	
Streams: Name	•	
Lakes or Ponds: Name		
• Wetlands: Name	Approximate Size	
Wetland No. (if regulated by DEC)		
v. Are any of the above water bodies listed in the most recent compilation of NYS water q	uality-impaired	\square Yes \square No
waterbodies?		
If yes, name of impaired water body/bodies and basis for listing as impaired:		
i. Is the project site in a designated Floodway?		□ Yes □ No
j. Is the project site in the 100 year Floodplain?		□ Yes □ No
k. Is the project site in the 500 year Floodplain?		□ Yes □ No
1. Is the project site located over, or immediately adjoining, a primary, principal or sole sou If Yes:	rce aquifer?	□ Yes □ No
i. Name of aquifer:		

m. Identify the predominant wildlife species that occupy	or use the project site:	
n. Does the project site contain a designated significant of the signi	•	□ Yes □ No
 ii. Source(s) of description or evaluation: iii. Extent of community/habitat: Currently: Following completion of project as proposed: Gain or loss (indicate + or -): o. Does project site contain any species of plant or animal 	acres acres acres	
endangered or threatened, or does it contain any areas		
p. Does the project site contain any species of plant or a special concern?	nimal that is listed by NYS as rare, o	or as a species of □ Yes □ No
q. Is the project site or adjoining area currently used for If yes, give a brief description of how the proposed actio		
E.3. Designated Public Resources On or Near Project	t Site	
a. Is the project site, or any portion of it, located in a des Agriculture and Markets Law, Article 25-AA, Section If Yes, provide county plus district name/number:	1 303 and 304?	•
b. Are agricultural lands consisting of highly productive <i>i</i> . If Yes: acreage(s) on project site? <i>ii</i> . Source(s) of soil rating(s):	soils present?	
c. Does the project site contain all or part of, or is it sub Natural Landmark? If Yes: i. Nature of the natural landmark: □ Biological ii. Provide brief description of landmark, including val	Community □ Geological I	Feature
d. Is the project site located in or does it adjoin a state list If Yes: i. CEA name: ii. Basis for designation: iii. Designating agency and date:		

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on, or has been nominated by the NYS Board of Historic Preservation for inclusion on, the State or National Register of Historic Places? If Yes:	□ Yes □ No			
i. Nature of historic/archaeological resource: □ Archaeological Site □ Historic Building or District				
ii. Name:iii. Brief description of attributes on which listing is based:				
f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	□ Yes □ No			
g. Have additional archaeological or historic site(s) or resources been identified on the project site? If Yes: i. Describe possible resource(s): ii. Basis for identification:	□ Yes □ No			
h. Is the project site within fives miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? If Yes: Identify resource:	□ Yes □ No			
i. Identify resource:ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail of etc.):	or scenic byway,			
iii. Distance between project and resource: miles.				
 i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? If Yes: i. Identify the name of the river and its designation: 	□ Yes □ No			
ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666?	□ Yes □ No			
F. Additional Information Attach any additional information which may be needed to clarify your project. If you have identified any adverse impacts which could be associated with your proposal, please describe those measures which you propose to avoid or minimize them.	impacts plus any			
G. Verification I certify that the information provided is true to the best of my knowledge.				
icant/Sponsor Name Date				

Full Environmental Assessment Form Ball Hill Wind Energy Project Modification of Special Use Permits and Height Restrictions Towns of Villenova and Hanover, Chautauqua County, NY

Section F. Additional Information

The following supplements and expands upon the information provided in the Full Environmental Assessment Form (FEAF) – Part 1 completed for the Ball Hill Wind Energy Project. The Project has been described in detail previously in the DEIS (2008), SDEIS (2016), FEIS (2016) and SEQRA Statement of Findings (2016) that were developed by the Applicant and the Lead Agency. The information provided herein represents a discussion of substantive changes to the information arising from the proposed modifications to the Project.

A. Project Purpose and Need

The Proposed Action modifies the previously approved Ball Hill Wind Energy Project (which consists of 29 wind turbines, associated electrical collection and transmission lines, access roads and related wind energy facilities which include an operations and maintenance facility) by increasing the total maximum permissible height of all 29 wind turbines from 495 feet to a maximum of 599 feet, the minor relocation of three (3) wind turbines (less than 135' from their approved locations), and replacement of the ± 5.7 -mile overhead 115kV transmission interconnection circuit and associated Collection Substation with ± 5.0 miles of four (4) predominantly underground 34.5kV circuits. The locations of twenty-six (26) of the wind turbines remain unchanged, as does the substation for interconnection with the existing 230 kV transmission line.

The proposed height increase is necessary to increase the efficiency and capacity of the wind turbines allowing for production of the most electricity within the same project footprint. Replacement of the overhead lines with underground cables will minimize visual, wetland, noise and agricultural impacts from the previously proposed 5.7-mile transmission line, which included the proposed use of approximately 80-foot-high poles and an additional substation. These changes will require the amendment of the Town of Villenova and Town of Hanover Zoning Laws to increase the maximum permitted height to accommodate the proposed wind turbines, and modification of the previously issued special use permits from the Town of Villenova and the Town of Hanover.

B. Government Approvals

Discretionary approvals may include the following:

Town of Villenova: Amendment to Special Use Permit and Local Law Amendment Town of Hanover: Amendment to Special Use Permit and Local Law Amendment

County of Chautauqua Planning Board: Review and Referral

C. Planning and Zoning

C.3. Zoning

The zoning laws for both the Town of Villenova and the Town of Hanover regulate wind energy facilities and were discussed in the DEIS (Section 2.23), SDEIS (Section 2.12), and SEQRA Statement of Findings (pp. 24-32) for the Project. The proposed action seeking amendment of the maximum permitted height regulations in both the Villenova and Hanover Zoning Laws to allow for a height increase of 104 feet to accommodate the proposed wind turbines.

D. Project Details

D.2. Project Operations

D.2.a Excavation

Each wind turbine would permanently occupy a round foundation base that is approximately 78 feet in diameter, only a portion of which would be exposed. Preparation of each turbine site for installation of spread footer foundations would involve excavation of surface materials to a depth of approximately 10 feet. After excavation is complete, concrete would be spread on the bottom of the excavation to level it in preparation of the rebar installation. After the rebar, steel and a turbine bolt cage would be installed, and the concrete placed for the foundation and turbine pedestal. Each foundation would utilize approximately 625 cubic yards of concrete and rebar steel. The final design of each foundation will be submitted with the building permit application for each turbine site.

Additional details relative to Project construction can be found in section 1.2.2 of the DEIS and 1.3.3 of the FEIS.

D.2.b Wetlands and Waterbodies

While the proposed turbine height increase will not result in changes to the wetland and waterbody impacts discussed in the SDEIS and FEIS, the layout changes resulting from the minor shift of T8 will result in avoidance of approximately 408 square feet of temporary impacts to Wetland Q1, a palustrine scrub-shrub (PSS) wetland. However, the revised limits of disturbance for T8 now encroaches on a small portion (566 square feet [.013 acres]) of Wetland A653, a Palustrine Emergent wetland (PEM). This increase in impact, 166 square feet, is de minimis and is offset by the significant decrease in impacts resulting from the transmission line modifications described below.

The replacement of the 115kV overhead transmission line with four circuits of collection that will be installed predominantly underground will result in a significant decrease in the wetland impacts discussed in the SDEIS, FEIS, and SEQRA Statement of Findings. The decrease is the result of the elimination of a portion of the right-of-way southwest of T35, the realignment of a portion of the right-of-way between Dennison Road and the Interconnection Substation, and the planned directional bore under the forested portions of NYSDEC Freshwater Wetland SC-12 and SC-13. Table 1 presents the changes in the impacts resulting from the construction of transmission and substation facilities since the SDEIS.

The route and installation modifications have resulted in a 6.52 acre decrease in the temporary wetland impacts, an approximately 50% reduction in the impacts previously anticipated from the

electrical corridor connecting the Project to the Interconnection Substation. This reduction includes avoidance of more than 3 acres of forested wetland conversion, of which 2.8 acres are NYSDEC jurisdictional.

The reroute between Dennison Road and the Interconnection Substation was facilitated by the change from overhead to underground construction. Previously the overhead 115kV transmission line was routed to minimize permanent impacts to active agricultural land from the placement of pole structures, which resulted in additional wetland impacts. As the installation of underground electrical lines only temporarily impacts agricultural activities during the construction season, the alignment was modified allowing for minimization of impacts to several large NYSDEC Freshwater Wetlands. This change, coupled with the proposed directional bore, resulted in a decrease in impacts to NYSDEC Freshwater Wetlands SC-12 and SC-12 from 5.9 acres of temporary disturbance to 0.55 acres. It also eliminated all 2.82 acres of impacts resulting from the permanent removal of trees in these wetlands. In addition, the impacts to the 100-foot regulated adjacent areas decreased from 3.33 acre to 1.97 acres and an additional 1.55 acres of adjacent area tree removal was avoided. As proposed, the 0.55 acres of temporary impacts are limited to portions of the Freshwater Wetlands located within active or fallow agricultural fields.

A Joint Application for Permit describing the proposed Project impacts, including the removal of the overhead transmission line, and mitigation was submitted to the USACE and NYSDEC in May 2017, copies of which were provided to the towns of Villanova and Hanover. An addendum describing the minor changes associated with the shifting of the three turbines will be provided in June 2018. Ball Hill is in discussion with the USACE to determine a final mitigation plan to address the proposed impacts. It is anticipated that final permits will be received in Fall 2018.

Table 1
Transmission Line and Substation Wetland Impacts

Transmission Eine and Substation Wetland Impacts						
		Ground Disturbance and Placement				
		of Fill Impacts in all Wetlands		Forested Wetlan	d Impacts	
			Temporary			
			Ground			Emergent and
			Disturbance and	Permanent		Scrub/Shrub
			Temporary	Impacts due to	Temporary	Wetlands Allowed
	Total Construction	Placement of	Placement of Fill	Permanent Forest	Forest	to Revert to Their
Document	Disturbance (acres)	Fill (acres)	(acres)	Conversion (acres)	Conversion	Natural State
SDEIS	10.44	1.02	9.42	3.17	0.00	6.24
FEIS	13.44	0.00	13.44	6.13	0.00	7.31
June 2018 Amendment	6.92	0.00	6.92	3.03	0.00	3.89
Change from FEIS	(-6.52)	0.00	(-6.52)	(-3.10)	0.00	(-3.42)

D.2.e Stormwater

The proposed modifications to the Project will not result in significant changes to the potential impacts from stormwater runoff that were described in the DEIS, SDEIS, and FEIS. The removal of the Collection Substation results in a decrease of approximately 1 acre of graveled surface. A draft Stormwater Pollution Prevention Plan (SWPPP) was provided in Appendix E of the FEIS. This document will be updated prior to construction to reflect the final design changes, and authorization under the State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from Construction Activity (GP-0-15-002) will be obtained from NYSDEC.

D.2.j Traffic

The proposed modifications to the Project may result in an increase in construction related traffic. The Transportation Study provided in Appendix M of the FEIS assumed approximately 1,392 truckloads of concrete would be necessary to complete the foundations for the 29 turbines. Given the larger turbine requires a larger foundation, it is anticipated that 1,812 truckloads will be needed (assuming 10 yards per trip) which represents an additional 420 truckloads (approximately 14 additional trips per turbine).

As discussed in Section 2.11 of the SDEIS and in the SEQRA Statement of Findings, construction related traffic will be limited to the hours allowed in the local laws. In addition, Ball Hill will manage construction traffic in accordance with its road use agreements, which designate approved routes as well as provide a commitment to repair and/or improve roadways utilized by the Project.

D.2.1 Hours of Operation

D.2.m Noise

The comprehensive sound level assessment report prepared for the Project on October 4, 2016 (Sound Report) and incorporated in the FEIS was revised October 23, 2017 to assess the sound level effects of the turbine changes and elimination of Collection Substation proposed herein (Revised Sound Modeling Memo, see Appendix F of the Application). A summary of the changes in A-weighted L₁₀ sound power levels at the 769 receptor points studied for the Project in the Sound Report is presented in Table 2.

 $\label{eq:Table 2} Table \ 2 \\ Change in \ A-weighted \ L_{10} \ Sound \ Power \ Levels$

Sound Level Change	Number of Receptor Points	Resulting Sound Level
No Change	589	
Quieter	161	
+1db	17	≤26db (16 points); 36db (1 point)
+2db	2	22db

With the proposed changes, the Project remains fully compliant with all applicable noise restrictions in Town local laws.

D.2.n Outdoor Lighting

Pursuant to Federal Aviation Administration (FAA) requirements, all 29 WECS will include hazard lighting. This is required as all twenty-nine (29) proposed WECS have received a Determination of No Hazard from the FAA, each of which is conditioned on the obstruction marking and lighting condition of white paint and synchronized red lights. Copies of all FAA Determinations of No Hazard are provided in Appendix I of the Application. There will be no lights during the day. There will be red flashing lights during the night, designed at a minimum intensity and duration of time with an illumination pattern that will primarily be directed upward, as recommended by the FAA

As described in the FEIS (FEIS; Table 2.4-1) lighting at the substation and O&M facility will consist of manually activated full-cutoff exterior lighting and temporary work lighting, with no drop-down optics. During normal operations, the substation will not be lit except as required for site security and/or as required by federal, state, or local agencies. Routine maintenance work at the substation is expected to occur during daylight hours; however nighttime work (requiring lighting) may be required in an emergency or for reliability reasons. Elimination of the Collection Substation will result in a decrease in the anticipated light sources from the Project.

D.2.p Bulk Storage of Petroleum

Sources of oil could include the main power transformer, gear oils, and hydraulic fluids located in the turbines, and any oil or fuel storage as part of construction. As discussed in the DEIS, SDEIS, and FEIS, Ball Hill will develop and implement a construction spill prevention and control (SPCC) plan prior to construction. In addition, prior to operation of the Project, Ball Hill will develop an operational SPCC plan, pursuant to 40 Code of Federal Regulations (CFR) Part 112, because the volume of oil stored on site would be greater than 1,320 gallons. Ball Hill general policies for the implementation of environmental monitoring practices are included in the Environmental Monitoring Plan in Appendix S of the FEIS.

D.2.q Use of Pesticides

As noted in the SEQRA Statement of Findings (pp. 81), the application of herbicides and pesticides is not anticipated, except for within the fenced substation enclosure. The elimination of the Collection Substation, as well as most of the overhead lines, has minimized the potential areas that herbicides may be used.

E. Site and Setting of Proposed Action

E.1.a Existing Land Uses

The proposed modifications to the Project do not result in any substantive changes to the existing land uses described in the DEIS, SDEIS, and FEIS.

E.1.b Land Use and Covertypes

The proposed modifications to the height of the proposed turbines and the minor shifts of three turbines do not result in any substantive changes to the existing land uses described in the DEIS, SDEIS, and FEIS.

The replacement of the 115kV overhead transmission line with four circuits of predominantly buried electrical lines will result in a minor decrease in the amount of tree clearing necessary and a slight increase in the acreage of agricultural lands crossed by the Project. The realignment of the right-of-way that was facilitated by the change from overhead to underground, as well as the directional bore under the NYSDEC wetland, decreases the proposed tree clearing necessary for the project by approximately 7 acres. The realignment will result in approximately 3.7 acres (approximately 2,000 linear feet) of additional impacts to agricultural land. However, unlike the placement of poles and guy wires, these impacts will be temporary and limited to the duration of construction and restoration. As described in the SEQRA Statement of Findings (pp. 22), activities within agricultural fields will be conducted in accordance with applicable NY State Department of Agriculture and Markets (NYSDAM) guidelines to the greatest extent practicable, and in accordance with Town approvals and landowner input. It should be noted that NYSDAM has

indicated a strong preference for underground placement of electrical collection wires within agricultural fields.

E.1.h. Potential Contamination History

Ball Hill is unaware of any sources of contamination exist near Project facilities. A Phase I Environmental Site Assessment will be completed as part of Project to identify any possible environmental concerns."

E.2. Natural Resources on or Near Project Site

E.2.c-f Soils

See DEIS (Section 2.3), SDEIS (Section 2.2), and FEIS (Section 1.4.2) for a detailed discussion of soil types that occur within the Project Area.

E.2.h Surface Water Features

The proposed modifications to the Project will not result in a substantive change the surface water bodies discussed in the DEIS, SDEIS, nor FEIS.

E.2.m Wildlife

Section 2.9.3 of the DEIS, 2.5 of the SDEIS, and various comment responses within the FEIS describe the wildlife that occur within the Project Area. The proposed Project modifications do not result in substantive changes to these discussions.

Please see the Additional Information section below for a discussion of the potential effects on bird and bat species resulting from the proposed Project modifications.

E.2.0 Threatened and Endangered Species

Section 2.9.3.2 of the DEIS, 2.5 of the SDEIS, and various comment responses within the FEIS address the potential for occurrence and impacts to non-avian and bat threatened and endangered species. The proposed Project modifications do not result in substantive changes to these discussions.

Please see the Additional Information section below for a discussion of the potential effects on bird and bat species resulting from the proposed Project modifications.

E.3. Designated Public Resources on or Near Project Site

E.3.a-b Agricultural Land

The Project is located in two Chautauqua County Agricultural Districts: District 5 (CHAT005) and District 10 (CHAT010). While the modification to the collection line right-of-way north of Dennison Road will involve additional active agricultural land, it is generally located within the same mapped soil types as the previous route. These soils have been identified as Prime Farmland, Prime Farmland if drained, and Farmland of Statewide Importance.

As discussed previously, the realignment will result in approximately 3.7 acres (approximately 2,000 linear feet) of additional impacts to agricultural land. However, unlike the placement of poles and guy wires, these impacts will be temporary and limited to the duration of construction and restoration. As described in the SEQRA Statement of Findings (pp. 22), activities within agricultural fields will be conducted in accordance with applicable NY State Department of Agriculture and Markets (NYSDAM) guidelines to the greatest extent practicable, and in accordance with Town approvals and landowner input. It should be noted that NYSDAM has indicated a strong preference for underground placement of electrical collection wires within agricultural fields.

E.3.e-f Cultural Resources

Archaeological

On May 25, 2018 Panamerican Consultants, Inc (Panamerican) sent correspondence to the NYS Historic Preservation Office (SHPO) which described the proposed Project modifications, noted that they constitute a reduction in proposed Project disturbance area, and requested concurrence with their findings that no additional impacts to archaeological resources will occur. On May 29, 2018 Ball Hill received correspondence from the SHPO concurring with Panamerican's findings and indicating that no additional archaeological investigations are required. This correspondence is provided in Appendix G of the application.

Architectural

On June 5, 2018 Panamerican issued a letter summarizing the results of its review of any potential additional impacts to historic structures that might result from the modified viewshed associated with the proposed Project changes. This letter states: "The revised viewshed map documenting minimal increase in the positive viewshed and the [Saratoga Associates] report concludes that it is not anticipated that the adjustments (turbine model and layout) will significantly change the appearance of the previously approved Project layout, or its impacts on historic structures. This recommendation will be submitted to the New York SHPO for their confirmation and concurrence."

E.3.h Scenic and Aesthetic Resources (Visual Impacts)

In February 2018, Saratoga Associates completed a Technical Memorandum which analyzed the potential for additional impacts resulting from the proposed modifications (see Appendix E of the application). The review found that the increase in turbine height would result in the following:

- The Project screening would decrease by approximately 1.1% (from 67.7% to 66.6%) within the five-mile study area utilizing the vegetated viewshed mapping. However, this increase in visibility would be further mitigated by localized conditions such as landscaping, hedgerows, and structures.
- Within the 33.4% of the study area where the Project is visible, the increase in height has increased the area where 26-29 turbines will be visible by 2.2% (approximately 2,200 acres).
- A review of potential sensitive resources indicates that one additional resource, the Hamlet of Balltown, would potentially have the view of one turbine.

- A review of resources of Statewide Significance indicates that the Project would remain not notably visible at either Boutwell Hill State Forest or Canadaway Creek Wildlife Management Area.
- The Project previously anticipated having 22 of 29 turbines fitted with FAA lighting. Given the increase in height all 29 turbines will require lighting. However, as the previously lit turbines were located around the perimeter of the site, the increase in the area where lit turbines will be visible is relatively small (approximately 2%, from 28.1% to 29.6%)
- The increased height will result in an increase in the number of receptors potentially receiving 10-20 and 30+ hours of shadow flicker per year. In total, 35 receptors may exceed 30 hours of shadow flicker (an increase of 13 from 2016). The increases are:
 - o 10-20 hrs/yr: 5 additional receptors (+2.1%)
 - o 30-40 hrs/yr: 2 additional receptors (+0.8%)
 - o 40+ hrs/yr: 11 additional receptors (+4.5%)

It should be noted that in the Statement of Findings issued for the Project, the Lead Agency found that the shadow flicker analysis is considered to present a worst-case scenario, and that it is anticipated that the number of hours per year that some receptors will experience shadow flicker will be less than modeled.

While the increase in turbine height has resulted in minor increases to the potential visual impacts from the proposed Project, the replacement of the overhead 115kV overhead transmission line with a 34.5kV collection system installed predominately underground has resulted in decreased impacts to residences along the proposed transmission corridor.

Mitigation for the visual effects of the proposed Project were described in Section 2.7 of the SDEIS, Appendix I of the FEIS, and contemplated by the Lead Agency in the Statement of Findings (pp. 149-155).

Additional Information

Effects on Bird/Bats from Increased Tower Height

There is an increase in overall Project rotor sweep area of approximately 667,535 square feet with the change to 29 taller turbines. This is the equivalent of adding the sweep area of approximately five more turbines at the previously proposed dimensions. This is a ~17% increase in rotor sweep for the entire project. The maximum blade tip height at the new proposed turbines would increase 104 feet from 495 feet to 599 feet above ground level (agl). The minimum blade tip height at these turbines would rise by 58 feet, going from a previous height of 78 feet agl to 136 feet agl. These changes in dimensions and sweep area have been reviewed for possible changes in the potential impacts on bird and bat resources from those previously identified in the FEIS (Appendix H-1).

In the FEIS, the approximate number of bird and bat fatalities for the Ball Hill Wind project were estimated on a per-turbine and per-megawatt (MW) basis. The minimum and maximum per-turbine and per-MW rates from post-construction mortality monitoring studies in New York were used to establish a range of potential bird and bat fatalities. There are many differences in the post-construction mortality monitoring studies conducted in New York, including turbine height and turbine rotor sweep. The range of New York study

results are within the North American range of study results and provide reasonable estimates of bird and bat fatalities from collision for a project in New York. As the number of turbines and total MWs proposed for the Ball Hill Wind project are unchanged, there are no changes to these fatality estimate calculations. The approximate fatalities in the FEIS ranged from 19 to 563 birds per year and 20 to 1,630 bats per year. Ball Hill's plan to voluntarily reduce operations during the times of increased bat risk will result in lower mortality than the sites previously studied that did not employ similar operational reductions.

Taller turbines and more overall rotor sweep in the Project area could result in some slightly higher fatality rates than the previous proposed turbines. Most nocturnal songbird migration occurs between 400 feet agl and 2,000 feet agl. With turbines that are 104 feet taller and now reaching to 599 feet agl, more nocturnal bird migrants than previously may encounter the risk of turbine collision. Most diurnal bird flight occur below 500 feet agl, and with the lower reach of the rotors 42 feet higher than previously proposed, there could be slightly fewer bird collisions with the turbines in the daytime.

Potential changes are less clear for bats, but the current consensus is that taller turbines serve as a greater attractant to bats, perhaps being viewed as "taller trees" and from greater distances, and thus pose increased risk of collision. Similar to diurnal bird flight, the 58 feet of more open-air space from the ground could benefit some bat species that tend to fly closer to the ground when foraging. Even with taller turbines and more rotor swept area, it is not anticipated that fatalities to birds and bats would fall outside of the minimum and maximum rates from other studies in New York, as identified in the FEIS.

As part of the Article 11 permitting process, Ball Hill is coordinating with NYSDEC to develop a plan to mitigate for the potential incidental take of Northern Long Eared Bats (NLEB) which is listed as Threatened by both the State and Federal governments. While the details of this mitigation are not yet final, it will include periodic adjustments to the cut-in speed of the WECS as well as other components which will result in net positive benefits to the species. The final mitigation plan will be provided to the Town upon completion.