NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Permits

625 Broadway, 4th Floor, Albany, New York 12233-1750 P: (518) 402-9167 | F: (518) 402-9168 | deppermitting@dec.ny.gov www.dec.ny.gov

April 13, 2018

Tanja Grzeskowitz Helix Generation LLC 38-54 Vernon Blvd. Long Island City, NY 11101

Re: Notice of Incomplete Application for a Water Withdrawal Permit Ravenswood Generating Station, DEC ID# 2-6304-00024/00054 Queens, Queens County

Dear Ms. Grzeskowitz,

Due to the outcome of recent litigation, the water withdrawal permit issued for the Ravenswood Generating Station on November 15, 2013 has been annulled and remitted back to the department for further action on the application in accordance with SEQR.

The Department is using information presented in the initial water withdrawal permit application dated May 31, 2013 as well as the information presented in the permit renewal application dated August 2, 2017 as the basis for our review. Because the facility has the capacity to withdraw 1,527.84 million gallons per day of water, the project must be considered a Type 1 action under the State Environmental Quality Review Act.

The Department has determined that the following information is necessary:

- A completed and signed Part 1 of a Full Environmental Assessment Form. The form is available at <u>http://www.dec.ny.gov/permits/6191.html</u>. Please note that the Department has received a Short Environmental Assessment Form dated January 13, 2017 for the action of transfer to Helix Generation LLC. The Full Environmental Assessment Form must describe the water withdrawal activity at the facility.
- 2. A letter signed by the owner or owner's representative indicating what, if any, changes to the water withdrawal system have been made since August 2, 2017.

Please mail three paper copies of this information by April 27, 2018 to me at the address indicated in the letterhead above.

If you have any questions or concerns, please contact me at (518) 402-9178 or at Kent.Sanders@dec.ny.gov.



Ms. Grzeskowitz April 13, 2018 Page 2

Sincerely,

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Kent Sanders Deputy Chief Permit Administrator

ec: S. Watts, NYSDEC Region 2 Regional Permit Administrator C. Conyers, NYSDEC Office of General Counsel D. English, NYSDEC Division of Water



Ravenswood Generating Station 38-54 Vernon Blvd. Long Island City, NY 11101

May 4, 2018

Kent Sanders Deputy Chief Permit Administrator NYSDEC Headquarters 625 Broadway, 4th Floor Albany, NY 12233-1750

Re: Ravenswood Generating Station SEQR to Water Withdrawal Permit # 2-6304-00024/00054

Dear Mr. Sanders,

The Ravenswood Generating Station ("Ravenswood") is a longstanding electric generating facility. Ravenswood has played a significant role by supplying New York City's energy needs within a constantly growing New York City market for decades. The original design of the facility included boilers, steam-turbines, generators and auxiliary electrical equipment. Multiple surface water intake withdrawals were incorporated into the design to supply noncontact cooling water to condensers, heat exchangers and other facility needs. As per the requirements of the facility's Water Withdrawal Permit, annual water withdrawal reports have been filed annually. Ravenswood staff examines numbers used for water withdrawal calculations to ensure complete and transparent reporting is performed. In the reporting year 2017, the facility's maximum withdrawal rate was 1,358 million gallons per day (MGD); the facility's maximum permitted withdrawal rate is 1,527.84 MGD. The daily average withdrawal for 2017 was 371 MGD.

Ravenswood's water withdrawal design utilizes a once through cooling water intake system to condense low pressure steam exhausted from the low pressure turbine. Two circulating water pumps per unit are used inject surface water from the East River into steam surface condensers. Also included in the design is the low pressure salt water system which provides cooling water to various heat exchangers for auxiliary systems. The high pressure salt water system takes suction from the low pressure saltwater system and is accounted for in the low pressure systems withdrawal.

While the water withdrawal equipment utilized at the plant was included in the original design and has been used since its inception, Ravenswood has been working collaboratively with the NYSDEC continuously to install equipment to reduce its water withdrawal and overall environmental impact. The installation of variable speed drives on the circulating water pumps has, on average, reduced surface water withdrawal from the East River by approximately 142 MGD. The water withdrawal reductions from the installation of variable speed pumps allows Ravenswood to operate without exceeding its

current permitted withdrawal during normal day-to-day operation. As of August 2nd 2017, no changes or modifications have been made to the water withdrawal system at Ravenswood.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely, Tanja Grzeskowitz

Compliance Manager Tel. 718-706-2705 e-mail:tanja.grzeskowitz@ethosenergygroup.com

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:			
Application for Water Withdrawal Permit (DEC ID# 2-6304-00024-00054)			
Project Location (describe, and attach a general location map):			
Ravenswood cooling water intakes; located on the shoreline of the East River. North of the Q	ueensboro Bridge and south of the F	Roosevelt Island Bridge	
Brief Description of Proposed Action (include purpose or need):			
The Ravenswood Generating Station (RGS), an electric generating facility consisting of three (3) conventional bollers (Units 10/20/30), a combined cycle unit (Unit 40), and three (3) operational simple cycle units (GT1, GT10, GT11), is located in Long Island City, New York and is situated along the bank of the upper East River, across from Roosevelt Island. The existing water withdrawal system was commissioned in 1963 and is used to supply once through cooling water for Units 10, 20 and 30. Circulating Water Pumps (CWP) take suction from the East River and circulate water through the condenser to condense exhausted steam from the low pressure turbine. Water withdrawn is return to the East River via SPDES permit NY 0005193. The facility holds a valid SPDES permit for discharge of cooling water Intake Structures (CWIS). This technology includes Variable Speed Pumps (VSP) and Vacuum Priming Systems (VPS) on the Cooling water intake flows by operating the circulating water pumps at less than full capacity. For 2017-2018, the daily average water withdrawal from the East River was 371 million gallons per day (MGD) and the maximum day withdrawal was 1358 MGD. As of August 2, 2017, there have been no modifications or changes to the water withdrawal system.			
Name of Applicant/Sponsor:	Telephone: 718.706.2705		
Helix Ravenswood, LLC	E-Mail: Tanja.grzeskowitz@ethosenergygroup.com		
Address: 38-54 Vernon Blvd.	• • • • • • • • • • • • • • • • • • • •		
City/PO: Long Island City	State: New York	Zip Code: 11101	
Project Contact (if not same as sponsor; give name and title/role):	Telephone:		
Tanja Grzeskowitz - Compliance Manager	E-Mail:		
Address: 38-54 Vernon Blvd.			
City/PO:	State:	Zip Code:	
Long Island City	New York	11101	
Property Owner (if not same as sponsor):	Telephone: 718.706.2705		
	E-Mail: Tanja.grzeskowitz@ethosenergygroup.com		
Address:			
City/PO:	State:	Zip Code:	

B. Government Approvals

B. Government Approvals, assistance.)	, Funding, or Spon	isorship. ("Funding" includes grants, loans, ta	x relief, and any other	forms of financial
Government E	intity	If Yes: Identify Agency and Approval(s) Required	Applicati (Actual or j	on Date projected)
a. City Council, Town Board or Village Board of Truste	I, Yes No ees			
b. City, Town or Village Planning Board or Comm	∐Yes ZNo ission			
c. City Council, Town or Village Zoning Board of <i>I</i>	∐Yes ZNo Appeals			
d. Other local agencies	∐Yes ZNo			
e. County agencies	Yes No			
f. Regional agencies	Yes N o			
g. State agencies	☑Yes□No	New York State Department of Environmental Conservation		
h. Federal agencies	Yes ZNo			
i. Coastal Resources. <i>i</i> . Is the project site withi	in a Coastal Area, o	r the waterfront area of a Designated Inland W	'aterway?	☑ Yes □No
<i>ii.</i> Is the project site locatiii. Is the project site within	ed in a community n a Coastal Erosion	with an approved Local Waterfront Revitalizat	ion Program?	☑ Yes□No □ Yes☑No
C. Planning and Zoning				
C.1. Planning and zoning a	etions.			
 Will administrative or legisla only approval(s) which must If Yes, complete see If No, proceed to qu 	itive adoption, or an t be granted to enab ctions C, F and G. lestion C.2 and con	nendment of a plan, local law, ordinance, rule she the proposed action to proceed? nplete all remaining sections and questions in P	or regulation be the Part 1	☑ Yes□No
C.2. Adopted land use plan	S.			
a. Do any municipally- adopt where the proposed action	ted (city, town, vill would be located?	lage or county) comprehensive land use plan(s)) include the site	☐Yes ⁄ No
If Yes, does the comprehensi would be located?	ive plan include spe	cific recommendations for the site where the p	roposed action	□Yes□No
 b. Is the site of the proposed Brownfield Opportunity A or other?) If Yes, identify the plan(s): 	action within any lo trea (BOA); design	ocal or regional special planning district (for ex ated State or Federal heritage area; watershed r	cample: Greenway nanagement plan;	Ves No
Remediaton Sites:V00368 , Rem	ediaton Sites:241119	, NYS Heritage Areas:Harbor Park		
			· · · · · · · · · · · · · · · · · · ·	······
 c. Is the proposed action loc or an adopted municipal f If Yes, identify the plan(s): 	ated wholly or part armland protection	ially within an area listed in an adopted munici 1 plan?	pal 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 ZNo
b. Is the use permitted or allowed by a special or conditional use permit?	Ves No
c. Is a zoning change requested as part of the proposed action?	Yes Z No
<i>i.</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? Queens, District 30	
b. What police or other public protection forces serve the project site? NYPD, US Coast Guard	
c. Which fire protection and emergency medical services serve the project site? FDNY	
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; components)? Industrial, Commercial	if mixed, include all
b. a. Total acreage of the site of the proposed action? 0 acres	
c. Total acreage to be physically disturbed? o acres	
or controlled by the applicant or project sponsor?26 acres	
 c. Is the proposed action an expansion of an existing project or use? <i>i</i>. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acressquare feet)? %	Yes No es, miles, housing units,
d. Is the proposed action a subdivision, or does it include a subdivision?	∐Yes Z No
<i>i</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
<i>iv.</i> Minimum and maximum proposed lot sizes? Minimum Maximum	
<i>i.</i> If No, anticipated period of construction: <u>N/A</u> months <i>ii.</i> If Yes:	
Total number of phases anticipated Anticipated communication of phases 1 (including demolition)	201
Anticipated commencement date of phase 1 (including demonstron) monthy Anticipated completion date of final phase monthy	ear ear
Generally describe connections or relationships among phases, including any contingencies when determine timing or duration of future phases:	e progress of one phase may

E Dans dia mate					
f. Does the proje	ct include new resid	ential uses?			I Yes V No
If Yes, snow hum	or units propo	sed. True Femilie	Thuse Densiles	Multiple Femily (four on mone)	
	One ranny	<u>I wo Family</u>	Inree Family	Mumple Family (tour or more)	
Initial Phase					
At completion					
of all phases					
g. Does the prop	osed action include	new non-residentia	al construction (inclu	uding expansions)?	∐Yes ∐ No
lf Yes,	A				
<i>i</i> . Iotal number	of structures				
<i>ii</i> . Dimensions (in feet) of largest pr	oposed structure:	height;	width; andlength	
iii. Approximate	extent of building s	space to be heated	or cooled:	square feet	
h. Does the prop	osed action include	construction or oth	er activities that wi	Il result in the impoundment of any	Yes No
liquids, such a	s creation of a wate	r supply, reservoir.	, pond, lake, waste l	agoon or other storage?	
If Yes,				· ·	
i. Purpose of the	e impoundment:				
<i>ii.</i> If a water imp	oundment, the princ	cipal source of the	water:	Ground water Surface water stream	ms Other specify:
iii. If other than y	vater, identify the ty	pe of inpounded/	contained liquids an	id their source.	
<i>iv</i> . Approximate	size of the proposed	d impoundment.	Volume:	million gallons; surface area:	acres
v. Dimensions of	of the proposed dam	or impounding sta	ructure:	height; length	
vi. Construction	method/materials f	or the proposed da	m or impounding st	tructure (e.g., earth fill, rock, wood, con-	crete):
				_	
D.2. Project Op	erations				
a Does the prop	ned action include	ny execution w	ining or dredging of	Juriug construction operations or hoth	Vec
a. Does me prop	sect action include a	any excavation, in	uning, of areaging, (a sy foundations where all even used	
(Not including	general site prepara	ation, grading of in		s or foundations where all excavated	
Inderials will	emain onsite;				
11 1 US.					
I. what is the p	inpose of the excave	ation or areaging?		(1	
<i>n</i> . How much ma	tterial (including roo	ck, earm, seament	s, etc.) is proposed	to be removed from the site?	
• Volume	(specify tons or cul	oic yards):			1
• Over w	hat duration of time	?			C .1
<i>iii</i> . Describe natu	re and characteristic	es of materials to b	be excavated or dred	lged, and plans to use, manage or dispos	e of them.
<u> </u>				······································	
TTTTTTT	· · · · · · · · · · · · · · · · · · ·				
IV. Whithere be	onsite dewatering	or processing of es	cavaleo matemais?		
II yes, descr					
					······································
v. What is the to	otal area to be dredg	ed or excavated?		acres	
vi. What is the n	naximum area to be	worked at any one	e time?	acres	
vii. What would	be the maximum de	pth of excavation	or dredging?	feet	
<i>viii.</i> Will the exc	avation require blas	ting?			∐Yes∐No
<i>ix.</i> Summarize si	te reclamation goals	s and plan:			
					·····
			·····		
b. Would the pro	nosed action cause	or result in alterati	on of increase or de	ecrease in size of, or encroachment	Yes ZNo
into any exist	ing wetland waterh	ody, shoreline be	ach or adjacent area	?	
If Yes:	mo normany muoro			-	
<i>i</i> . Identify the	vetland or waterbod	wwhich would be	affected (hy name.	water index number, wetland map num	per or geographic
description)		.,	and the second s	And Anno 1, Working Map India	
					·····
					· · · · · · · · · · · · · · · · · · ·

<i>ii.</i> Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:			
· · · · · · · · · · · · · · · · · · ·			
 iii. Will proposed action cause or result in disturbance to bottom sediments? If Yes, describe:	☐ Yes ☐ No		
<i>iv.</i> 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 a homical (horhioide treatmost will be used, specify undirate)			
 In chemical/heroicide treatment will be tised, specify product(s): Describe any proposed reclamation/mitigation following disturbance: 			
י. ביארוטי מוץ אוסטיפט ופטומוומנוטויווזנוצמוטוו נטווטייווצ מוזמו טמווכפ;			
c. Will the proposed action use, or create a new demand for water?	Yes ZN0		
If Yes:			
i. Total anticipated water usage/demand per day: gallons/day			
<i>ii.</i> Will the proposed action obtain water from an existing public water supply? If Yes:	∐Yes ∏ No		
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		
<i>iii.</i> Will line extension within an existing district be necessary to supply the project? If Yes:	∐Yes <u></u> No		
Describe extensions or capacity expansions proposed to serve this project:			
Source(s) of supply for the district:			
<i>iv.</i> Is a new water supply district or service area proposed to be formed to serve the project site? If, Yes:	☐ Yes⊡No		
Applicant/sponsor for new district:			
Date application submitted or anticipated:			
Proposed source(s) of supply for new district:	<u> </u>		
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/minute.			
d. Will the proposed action generate liquid wastes?	Yes ZNo		
11 1 55.			
<i>ii.</i> Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial: if combination, describe all composition of the second s	onents and		
approximate volumes or proportions of each):			
<i>iii.</i> Will the proposed action use any existing public wastewater treatment facilities?	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? Will line outerside within an existing district he recommends to serve the available	
• Will line extension within an existing district be necessary to serve the project?	
 Describe extensions or canacity expansions proposed to serve this project; 	
by Will a new wastewater (sewage) treatment district be formed to serve the project site?	
If Yes:	
Applicant/sponsor for new district:	
Date application submitted or anticipated:	·
• What is the receiving water for the wastewater discharge?	cifying proposed
receiving water (name and classification if surface discharge, or describe subsurface disposal plans):	ong mg proposed
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	
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:	
7. How much impervious surface will the project create in relation to total size of project parcel?	
Square feet oracres (minet vious surface)	
ii. Describe types of new point sources.	
<i>in.</i> Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent aroundwater on site surface water or off-site surface water)?	properties,
groundwater, on-site surface water of on-site surface waters):	
• If to surface waters, identify receiving water bodies or wetlands:	
	·····
• Will stormwater runoff flow to adjacent properties?	☐ Yes ☐ No
iv. Does proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater?	
f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel	∐Yes ∐ No
If Yes identify	
<i>i</i> . Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)	
<i>ii.</i> 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,	
If Yes:	
<i>i</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:	
• Tons/year (short tons) of Carbon Dioxide (CO ₂)	
• Tons/year (short tons) of Nitrous Oxide (N_2O)	
Ions/year (short tons) of Perfluorocarbons (PFUS) Touchuon (abort tons) of Sulfur Hourfluoride (SE)	
 IONS/year (short tons) of Summer Diavide equivalent of Hydroflourocarbons (HECc) 	
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>i</i>. Estimate methane generation in tons/year (metric): 	Yes
 Describe any methane capture, control or elimination measures included in project design (e.g., combustion to gener electricity, flaring): 	rate heat or
 i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust):]Yes [2] No
 j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? If Yes: i. When is the peak traffic expected (Check all that apply): Morning Evening Weekend Randomly between hours of]Yes ZNo
 iv. Does the proposed action include any shared use parking? v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing acce vi. Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? vii Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes?]Yes]No ss, describe:]Yes]No]Yes]No]Yes]No
 k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? If Yes: <i>i</i>. Estimate annual electricity demand during operation of the proposed action: <i>ii</i>. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local other):]Yes∏No I utility, or
iii. Will the proposed action require a new, or an upgrade to, an existing substation?]Yes[]No
I. Hours of operation. Answer all items which apply. ii. During Operations: i. During Construction: ii. During Operations: • Monday - Friday: n/a • Saturday: n/a • Sunday: n/a • Holidays: n/a	

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

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s. Does the proposed action include construction or modif	ication of a solid waste m	anagement facility?	🗌 Yes 🛛 No
i Type of management or handling of wasta provided to	on the site (a manual in a	automation compaction	londfill or
i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities):			
<i>ii.</i> Anticipated rate of disposal/processing:			
• Tons/month, if transfer or other non-co	ombustion/thermal treatme	ent, or	
Tons/hour, if combustion or thermal tr	reatment	,	
iii. If landfill, anticipated site life:	years		
t. Will proposed action at the site involve the commercial	generation, treatment, stor	rage, or disposal of hazardous	Yes No
waste?	3 ,,,,,		
If Yes:			
<i>i</i> . Name(s) of all hazardous wastes or constituents to be	generated, handled or mar	naged at facility:	
ii. Generally describe processes or activities involving he	azardous wastes or constit	uents:	
in series and a series processes of a series in terming in			
iii. Specify amount to be handled or generated to	ns/month		
iv. Describe any proposals for on-site minimization, recy	cling or reuse of hazardou	is constituents:	
v. Will any hazardous wastes be disposed at an existing	offsite hazardous waste fa	cility?	Yes No
If Yes: provide name and location of facility:			barned Breard
If No: describe proposed management of any hazardous w	vastes which will not be se	ent to a hazardous waste facility	y:
E. Site and Setting of Proposed Action			
E.1. Land uses on and surrounding the project site			
a. Existing land uses.			
<i>i</i> . Check all uses that occur on, adjoining and near the p	project site.		
🛛 Urban 🖉 Industrial 🖉 Commercial 🔲 Reside	ential (suburban) 🛛 🗍 Ru	ıral (non-farm)	
☐ Forest ☐ Agriculture ☑ Aquatic ☐ Other	(specify):		
<i>n</i> . If mix of uses, generally describe:			
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	26	26	0
surfaces			V
• 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		·····	
Describe:			

c. Is the project site presently used by members of the community for public recreation? <i>i</i> . If Yes: explain:	☐Yes 🗹 No
 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, 	∐Yes Z No
i. Identify Facilities:	
- Desethe united the southing of subting days	
If Yes:	
. Damensions of the dam and impoundment:	
Dam height: Teet feet	
• Dam rengin:	
Surface area: acres	
• Volume impounded: gations OK acre-reet	
ii. Dam's existing hazard classification:	
iii. Provide date and summarize results of last inspection:	
I. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facili If Yes:	∐Yes ⊮ INo ity?
i. Has the facility been formally closed?	□Yes□ No
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?	Ves No
<i>i</i> . Describe waste(s) handled and waste management activities, including approximate time when activities occurre The site produces non-acute hazardous waste under a "Small Quantity Generator" status. Waste is contained in a hazardous waste inventoried weekly, sampled and tested for hazardous materials which are shipped off site to a treatment facility in compliance with F	d: storage area, RCRA regulations.
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?	Yes No
<i>i</i> . Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply:	☑ Yes□No
 ✓ Yes - Spills Incidents database ✓ Yes - Environmental Site Remediation database ✓ Provide DEC ID number(s): 1510992,110822,905194 Provide DEC ID number(s): V00368 , 241119 	,912294,100852
☐ Neither database	
 iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? If yes, provide DEC 1D number(s): C241109, C241086, C241101, C241100, C241099, V0 	VYes No
iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):	
DEC ID# V00368 (Voluntary Cleanup Program) is satisfactorily closed.	
DEC D# C24109 C241086 C241001 C241000 C241099 are not associated with Bayenswood Generaling Station	

v. Is the project site subject to an institutional control limiting property uses?	Yes
 If yes, DEC site ID number: Describe the type of institutional control (e.g., deed restriction or ensument); 	
Describe any use limitations:	
Describe any engineering controls:	
 Will the project affect the institutional or engineering controls in place? Explain: 	Yes VINO
E.2. Natural Resources On or Near Project Site	
a. What is the average depth to bedrock on the project site? <u>25</u> feet	
b. Are there bedrock outcroppings on the project site?	☐ Yes ZNo
If Yes, what proportion of the site is comprised of bedrock outcroppings?%	
c. Predominant soil type(s) present on project site: Silt loam N/A %))
loamy sand N/A %	
d What is the surgest doubt to the understable on the understable of t	
d. what is the average depth to the water table on the project site? Average: lect	
e. Drainage status of project site soils: Well Drained: N/A % of site	
Drained: N/A % of site	
f Approximate proportion of proposed action site with slopes: $\Box 0.10\%$ N/A % of site	
$\square 10-15\%: \qquad \square NA\% \text{ of site}$	
$\square 15\% \text{ or greater:} \qquad \underline{N/A}\% \text{ of site}$	
g. Are there any unique geologic features on the project site?	Yes No
If Yes, describe:	
 h. Surface water features. i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? 	V Yes No
<i>ii.</i> Do any wetlands or other waterbodies adjoin the project site?	ℤ Yes □ No
If Yes to either i or ii, continue. If No, skip to E.2.i.	
<i>iii.</i> Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal,	V Yes N o
state or local agency?	
Streams: Name Classification	
Lakes or Ponds: Name Classification	
 Wetlands: Name Federal Waters, Federal Waters, Federal Waters Approximate Size Wetland No. (if regulated by DEC) East River Watershed (0203010201) 	
v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired	Yes No
Waterbodies? If yes, name of impaired water body/bodies and basis for listing as impaired:	
Name - Pollutants - Uses:East River, Lower - Priority Organics;D.O./Oxygen Demand;Aesthetics - Recreation;Fish Consumption;A	Aqua
i. Is the project site in a designated Floodway?	Yes No
j. Is the project site in the 100 year Floodplain?	Ves No
k. Is the project site in the 500 year Floodplain?	Ves No
l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer?	V Yes No
If Yes: <i>i</i> . Name of aquifer: Sole Source Aquifer Names:Brooklyn-Queens SSA	

m. Identify the predominant wildlife species that occupy or use t	he project site:	
n. Does the project site contain a designated significant natural co	ommunity?	Yes VN0
<i>i</i> . Describe the habitat/community (composition, function, and l	basis for designation):	
······································		
<i>ii.</i> Source(s) of description or evaluation:		
Currently:	acres	
Following completion of project as proposed:	acres	
• Gain or loss (indicate + or -):	acres	
 Does project site contain any species of plant or animal that is endangered or threatened, or does it contain any areas identifie Peregrine Falcon 	listed by the federal government or NYS as d as habitat for an endangered or threatened spec	☑ Yes□No bies?
p. Does the project site contain any species of plant or animal the special concern?	at is listed by NYS as rare, or as a species of	□Yes☑No
q. Is the project site or adjoining area currently used for hunting, If yes, give a brief description of how the proposed action may at	trapping, fishing or shell fishing? ffect that use:	Yes No
E.3. Designated Public Resources On or Near Project Site		
a. Is the project site, or any portion of it, located in a designated a Agriculture and Markets Law, Article 25-AA, Section 303 and If Yes, provide county plus district name/number:	agricultural district certified pursuant to d 304?	Yes No
 b. Are agricultural lands consisting of highly productive soils pre <i>i.</i> If Yes: acreage(s) on project site? <i>ii.</i> Source(s) of soil rating(s): 	esent?	Yes No
 c. Does the project site contain all or part of, or is it substantially Natural Landmark? If Yes: 	contiguous to, a registered National	Yes No
<i>i</i> . Nature of the natural landmark: <i>ii</i> . Provide brief description of landmark, including values behi	nity Geological Feature nd designation and approximate size/extent:	
 d. Is the project site located in or does it adjoin a state listed Crit. If Yes: i. CEA name: 	ical Environmental Area?	∏Yes ∏ No
<i>ii.</i> 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: i. Nature of historic/archaeological resource: i. Nature of historic/archaeological resource: i. Nature of historic Places on which listing is based: 	☐ Yes <mark></mark> No
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?	ØYes ☐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: i. Identify resource: ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or 	∐Yes ZNo scenic byway,
etc.):	
 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 impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

Date <u>5/4/18</u> Title <u>Compliance</u> Manager (Date 5)INCOU -Applicant/Sponsor Name brezeskowin anc Signature



B.i.i [Coastal or Waterfront Area]	Yes	
B.i.ii [Local Waterfront Revitalization Area]	Yes	
C.2.b. [Special Planning District]	Yes - Digital mapping data are not available for all Special Planning Districts. Refer to EAF Workbook.	
C.2.b. [Special Planning District - Name]	Remediaton Sites:V00368, Remediaton Sites:241119, NYS Heritage Areas:Harbor Park	
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Yes - Digital mapping data for Spills Incidents are not available for this location. Refer to EAF Workbook.	
E.1.h.i [DEC Spills or Remediation Site - Listed]	Yes	
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Yes	
E.1.h.i [DEC Spills or Remediation Site - DEC ID Number]	V00368 , 241119	
E.1.h.iii [Within 2,000' of DEC Remediation Site]	Yes	
E.1.h.iii [Within 2,000' of DEC Remediation Site - DEC ID]	C241109, C241086, C241101, C241100, C241099, V00368, 241028, C241028, 241126, 241119	
E.2.g [Unique Geologic Features]	No	
E.2.h.i [Surface Water Features]	Yes	
E.2.h.ii [Surface Water Features]	Yes	
E.2.h.iii [Surface Water Features]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.	
E.2.h.iv [Surface Water Features - Wetlands Name]	Federal Waters	
E.2.h.v [Impaired Water Bodies]	Yes	
E.2.h.v [Impaired Water Bodies - Name and Basis for Listing]	Name - Pollutants - Uses:East River, Lower - Priority Organics;D.O./Oxygen Demand;Aesthetics - Recreation;Fish Consumption;Aquatic Life	

E.2.j. [100 Year Floodplain]	Yes
E.2.k. [500 Year Floodplain]	Yes
E.2.I. [Aquifers]	Yes
E.2.I. [Aquifer Names]	Sole Source Aquifer Names:Brooklyn-Queens SSA
E.2.n. [Natural Communities]	No
E.2.o. [Endangered or Threatened Species]	Yes
E.2.o. [Endangered or Threatened Species - Name]	Peregrine Falcon
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National Register of Historic Places]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.3.f. [Archeological Sites]	Yes
E.3.i. [Designated River Corridor]	No



Imported	Discharge/Return Points	Withdrawal from East River
Water Meter House # 1-NYC DEP Water Supply	Discharge Point #1-SPDES Outfall 001	Intake # 1- Unit 10 Circulating Water Intake
Water Meter House # 2-NYC DEP Water Supply	Discharge Point #2-SPDES Outfall 008	Intake # 2- Unit 20 Circulating Water Intake
Water Meter House # 3-NYC DEP Water Supply	Discharge Point #3-SPDES Outfall 009	Intake # 3-Unit 30 Circulating Water Intake
Water Meter House #4-NYC DEP Water Supply	Discharge Point #4-SPDES Outfall 010	