

PUBLIC NOTICE

U.S. Army Corps
of Engineers
New York District, CENAN-OP-RU
Upstate Regulatory Field Office
1 Buffington Street, Bldg. 10, 3rd Fl. North
Watervliet, New York 12189-4000

In replying refer to:
Public Notice Number: NAN-2019-00439-UDA
Issue Date: April 12, 2021
Expiration Date: May 11, 2021

To Whom It May Concern:

The New York District, Corps of Engineers has received an application for a Department of the Army permit pursuant to Section 404 of the Clean Water Act (33 U.S. C. 1344).

APPLICANT: Philip Mooney
Hecate Energy Albany 1, LLC and Hecate Energy Albany 2, LLC
621 W. Randolph Street
Chicago, Illinois 60661

ACTIVITY: Discharge of fill material into waters of the United States to facilitate the construction of photovoltaic solar arrays and associated infrastructure

WATERWAY: Wetlands and Tributaries (Hudson River Watershed)

LOCATION: Town of Coeymans, Albany County, New York

A detailed description and plans of the applicant's activity are enclosed to assist in your review.

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

ALL COMMENTS REGARDING THE PERMIT APPLICATION MUST BE PREPARED IN WRITING AND MAILED TO THE ATTENTION OF BRAD SHERWOOD AT THE ABOVE ADDRESS, OR SENT VIA ELECTRONIC MAIL TO Brad.Sherwood@usace.army.mil, TO REACH THIS OFFICE BY THE EXPIRATION DATE OF THIS NOTICE, otherwise, it will be presumed that there are no objections to the activity. Due to COVID-19, and the limited in-office mail processing procedures, it is highly recommended that comments be sent by Electronic Mail only to prevent delays.

Comments submitted in response to this notice will be fully considered during the public interest review for this permit application. Comments provided will become part of the public record for this permit application. All written comments, including contact information, will be made a part of the administrative record, available to the public under the Freedom of Information Act. The Administrative Record, or portions thereof, may also be posted on a Corps of Engineers internet web site. Due to resource limitations, this office will normally not acknowledge the receipt of comments or respond to individual letters of comment.

Any person may request, in writing, before this public notice expires, that a public hearing be held to collect information necessary to consider this application. Requests for public hearings shall state, with particularity, the reasons why a public hearing should be held. It should be noted that information submitted by mail is considered just as carefully in the permit decision process and bears the same weight as that furnished at a public hearing.

Our preliminary determination is that the activity for which authorization is sought herein will not affect Federally endangered or threatened species or their critical habitat. However, pursuant to Section 7 of the Endangered Species Act (16 U.S.C. 1531), if new information warrants, the District Engineer will consult with the appropriate Federal agency to determine the presence of and any potential impacts to listed species or their critical habitat in the project area.

Based upon a review of the GIS resources map on the N.Y.S. Office of Parks, Recreation and Historic Preservation (SHPO) website, the project site is located within areas identified by the SHPO as "Archeo Sensitive Areas". Further consultation with SHPO regarding these "Archeo Sensitive Areas" is being conducted and will be concluded prior to the final decision.

Reviews of activities pursuant to Section 404 of the Clean Water Act will include application of the guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404 (b) of the Clean Water Act and the applicant will obtain a water quality certificate or waiver from the appropriate state agency in accordance with Section 401 of the Clean Water Act prior to a permit decision.

In addition to any required water quality certificate and coastal zone management program concurrence, the applicant has obtained or requested the following governmental authorization for the activity under consideration:

- New York State Department of Environmental Conservation Stormwater Permit

In order for us to better serve you, please complete our Customer Service Survey located at:

<http://www.nan.usace.army.mil/Missions/Regulatory/CustomerSurvey.aspx>

It is requested that you communicate the foregoing information concerning the activity to any persons known by you to be interested and who did not receive a copy of this notice. If you have any questions concerning this application, you may contact Brad Sherwood of this office at (518) 266-6355 or Brad.Sherwood@usace.army.mil.

For more information on New York District Corps of Engineers programs, visit our website at <http://www.nan.usace.army.mil>

A handwritten signature in black ink that reads "Amy L. Gitchell". The signature is written in a cursive style with a large, looping initial "A".

FOR AND ON BEHALF OF
Stephan A. Ryba
Chief, Regulatory Branch

Enclosures

WORK DESCRIPTION

The applicant, Hecate Energy Albany 1, LLC and Hecate Energy Albany 2, LLC, has requested Department of the Army authorization for the discharge of fill material into approximately 2.09 acres of waters of the United States, including wetlands and tributaries to facilitate the construction of photovoltaic solar arrays and associated infrastructure, to be known as "Coeymans Solar Farm". The project is located between US Route 9W and County Route 101, in the Town of Coeymans, Albany County, New York.

The work would involve the construction of a solar facility that would have a capacity of approximately 40 megawatts, and would include the installation of ground-mounted solar panels and two on-site electrical substations, along with other attendant features. The ground-mounted solar panels would be supported by small I-beam posts driven into the ground, resulting in little ground disturbance and no permanent discharge of fill. The proposed project would result in the permanent impacts to approximately 2.02 acres of emergent wetland and 0.07 acres of scrub-shrub wetland in association with the grading and construction of permanent access roads and electrical substations. In addition, the proposed project would result in the temporary impacts to approximately 92.61 acres of emergent wetland, 3.06 acres of scrub-shrub wetland, and 185 linear feet of stream channel in association with temporary access roads, workspaces, and trenching. The majority of the proposed work is located within old agricultural fields that are currently wetland areas. The applicant has determined that any work within this area may result in an impact that must be restored, thus the need to quantify and account for a large temporary impact total. All temporary impacts would be restored to pre-existing contours utilizing back-blading and raking when necessary, along with the planting of a wetland seed mix. The proposed project would also result in approximately 0.467 acres of scrub-shrub wetland that would be permanently converted to emergent wetland as part of the continued operation of the solar facility.

The applicant has stated that they have avoided and minimized proposed impacts to the maximum extent practicable by installing the arrays and the road network in areas to avoid all impacts to highly environmental and culturally sensitive areas. The applicant proposes to enhance approximately 3.42 acres of existing emergent wetland, which was recently in agricultural production, through plantings of a mix of native herbaceous wetland species and native shrubs, as mitigation for the proposed impacts to waters of the United States. In addition, the applicant proposes to deed restrict approximately 13.03 acres of wetland, including the proposed enhancement area, to guarantee its preservation for wetland and wildlife resources.

The stated purpose of this project is to provide utility-scale, renewable solar generated electricity for New York State and regional energy consumers.



Legend
 Limit of Disturbance

NAN-2019-00439-UDA
 Hecate Energy Albany 1, LLC and
 Hecate Energy Albany 2, LLC
 Drawing 1 of 23

Project Location

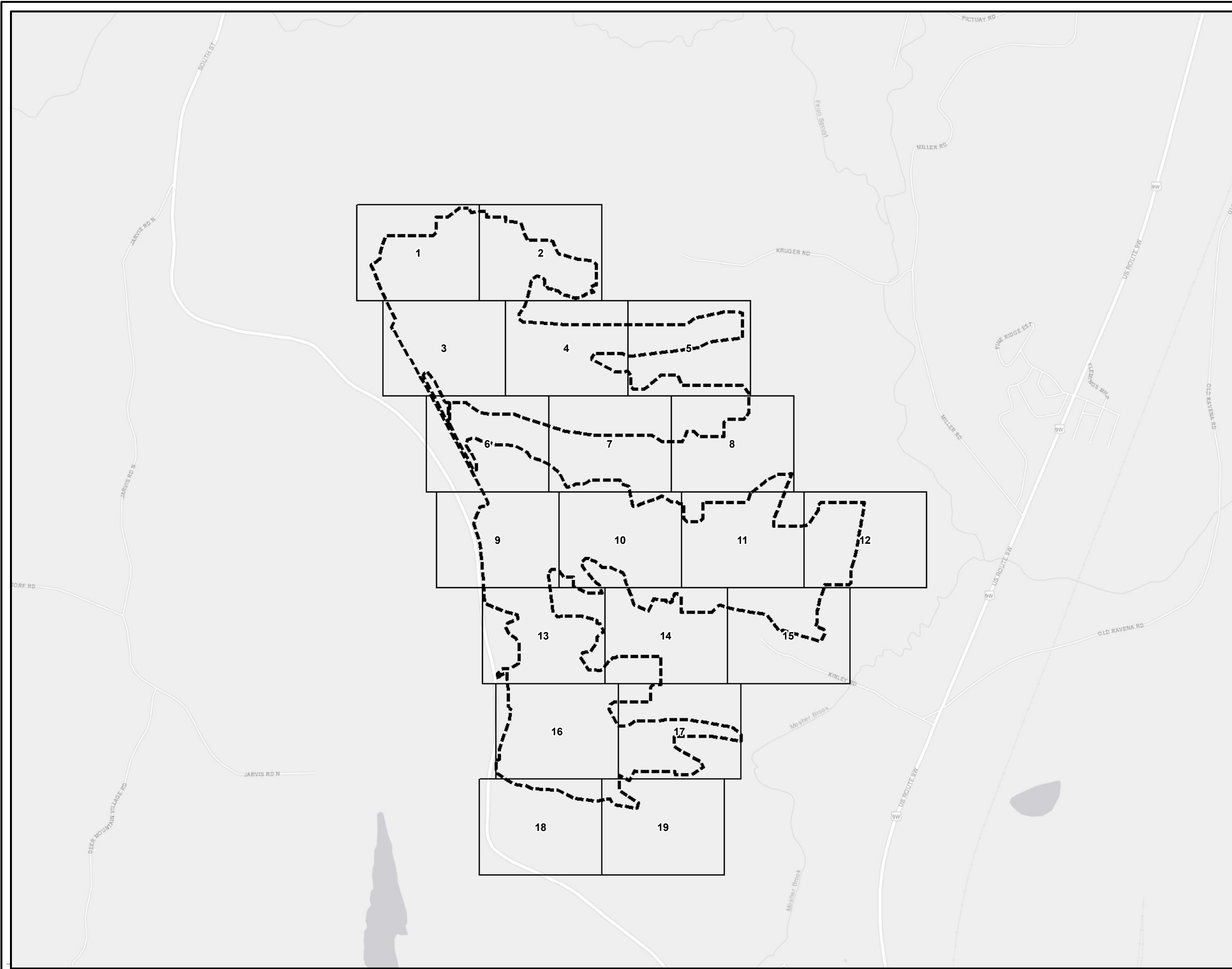
Feet
 0 1,000 2,000 4,000

Figure 1.
Site Location on USGS Topographic Maps
Sheet 1 of 1
Coeymans Solar Farm
Albany County, New York

Prepared By: TETRA TECH	Date: 6/2020
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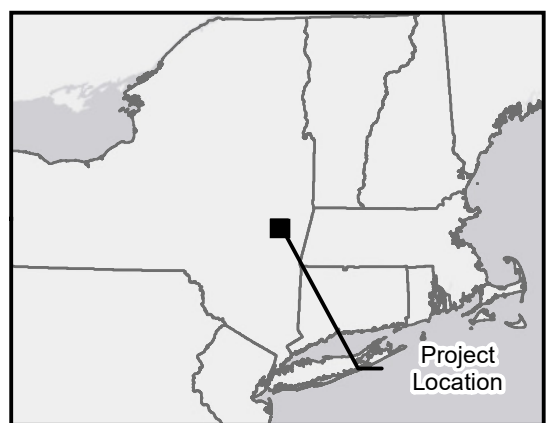
Source: Esri, et. al., 2014; Tetra Tech, 2016-2020

Coordinate System: NAD 1983 State Plane New York East FIPS 3101 Feet



Legend
 [Solid Line] Sheet Boundary
 [Dashed Line] Limit of Disturbance

NAN-2019-00439-UDA
 Hecate Energy Albany 1, LLC and
 Hecate Energy Albany 2, LLC
 Drawing 2 of 23



0 500 1,000 2,000 Feet

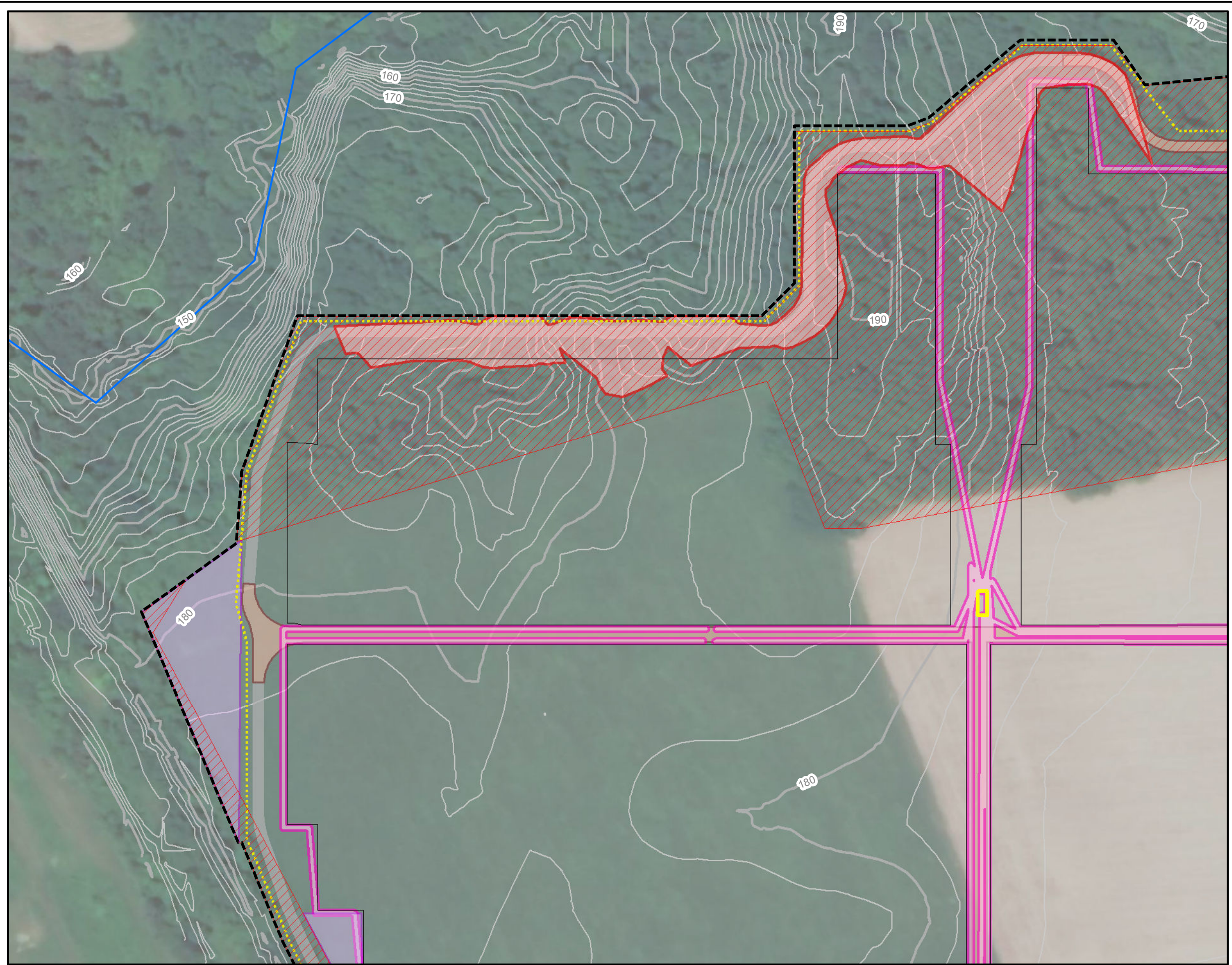
Sheet Key for Figure 2.
Proposed Impacts and Contours
Sheet 1 of 1
Coeymans Solar Farm
Albany County, New York

Prepared By:		Date:
	TETRA TECH	6/2020

Source: Esri, et. al., 2014; Tetra Tech, 2016-2019

Coordinate System: NAD 1983 State Plane New York East FIPS 3101 Feet

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- Legend**
- Limit of Disturbance
 - Module Location
 - Paved Road
 - Unpaved and Unimproved Road
 - Fence
 - Electrical Components
 - Tree Clearing
 - Grading Areas
 - Construction Laydown
 - Conduit Trenching Area
 - Perennial Stream

NAN-2019-00439-UDA
 Hecate Energy Albany 1, LLC and
 Hecate Energy Albany 2, LLC
 Drawing 3 of 23

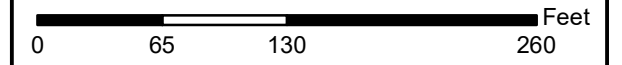
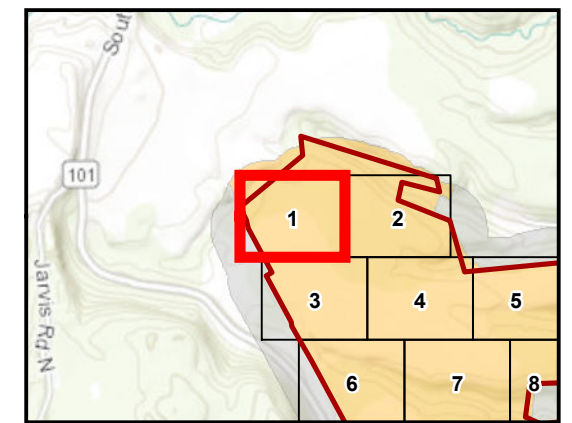


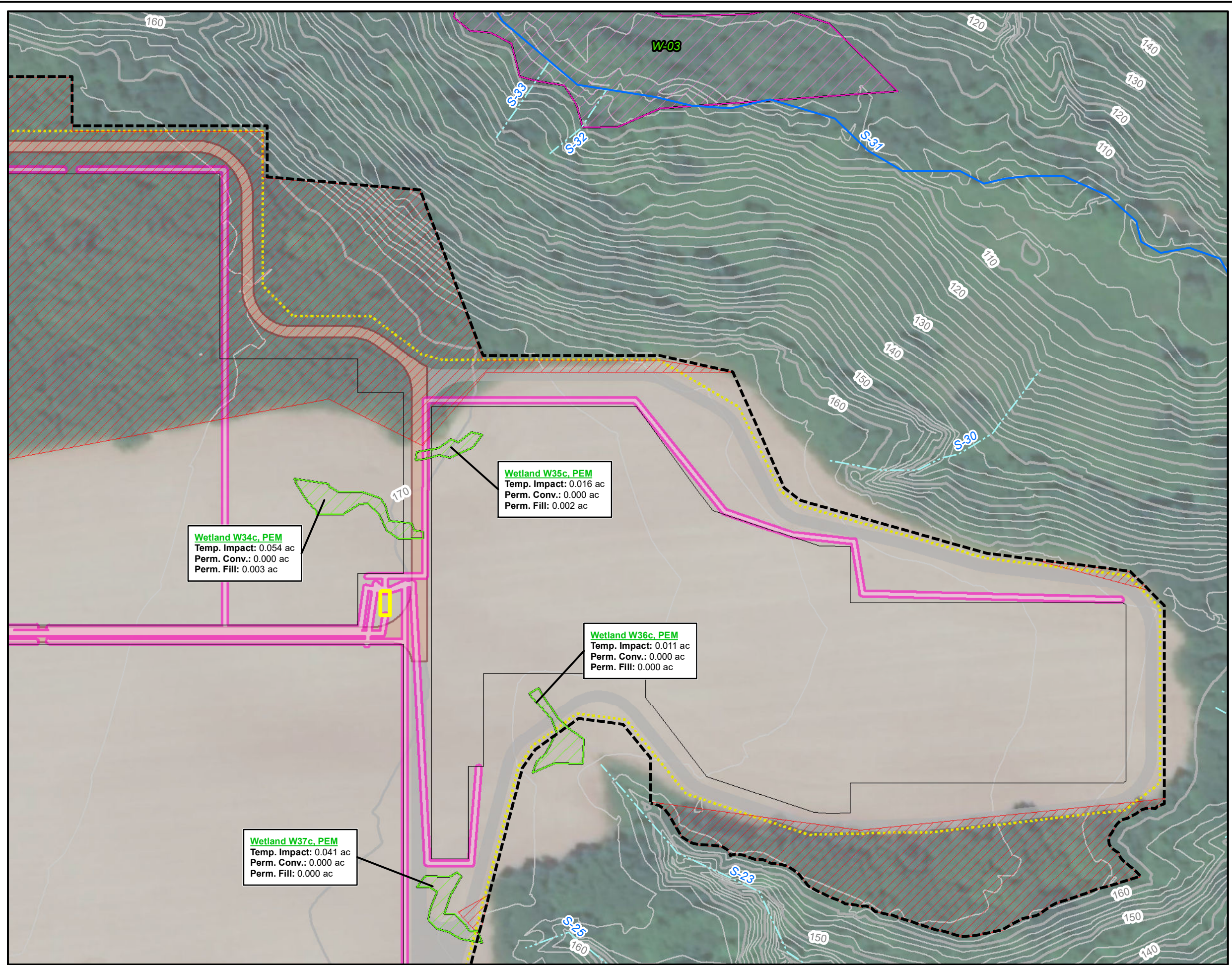
Figure 2. Site Plan Drawings Showing Impacts to Aquatic Resources
 Sheet 1 of 19
 Coeymans Solar Farm
 Albany County, New York

Prepared By: TETRA TECH	Date: 2/2021
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Source: Esri, et. al., 2014; Tetra Tech, 2016-2020

Coordinate System: NAD 1983 State Plane New York East FIPS 3101 Feet

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Legend

- Limit of Disturbance
- Module Location
- Paved Road
- Unpaved and Unimproved Road
- Fence
- Electrical Components
- Tree Clearing
- Conduit Trenching Area
- Ephemeral Stream
- Perennial Stream
- PEM Wetland
- PFO Wetland

NAN-2019-00439-UDA
 Hecate Energy Albany 1, LLC and
 Hecate Energy Albany 2, LLC
 Drawing 4 of 23

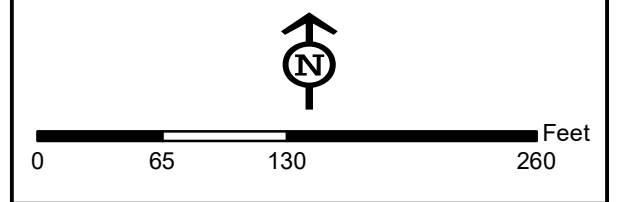
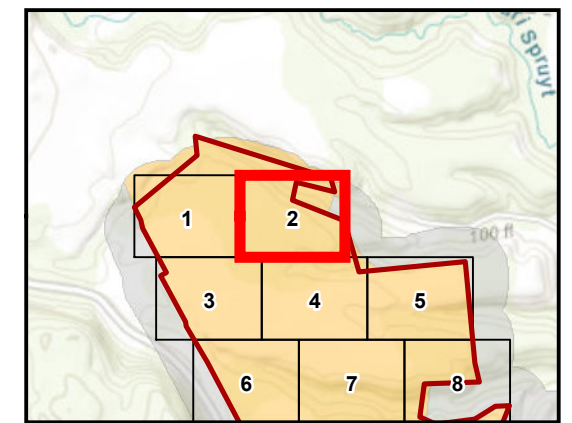


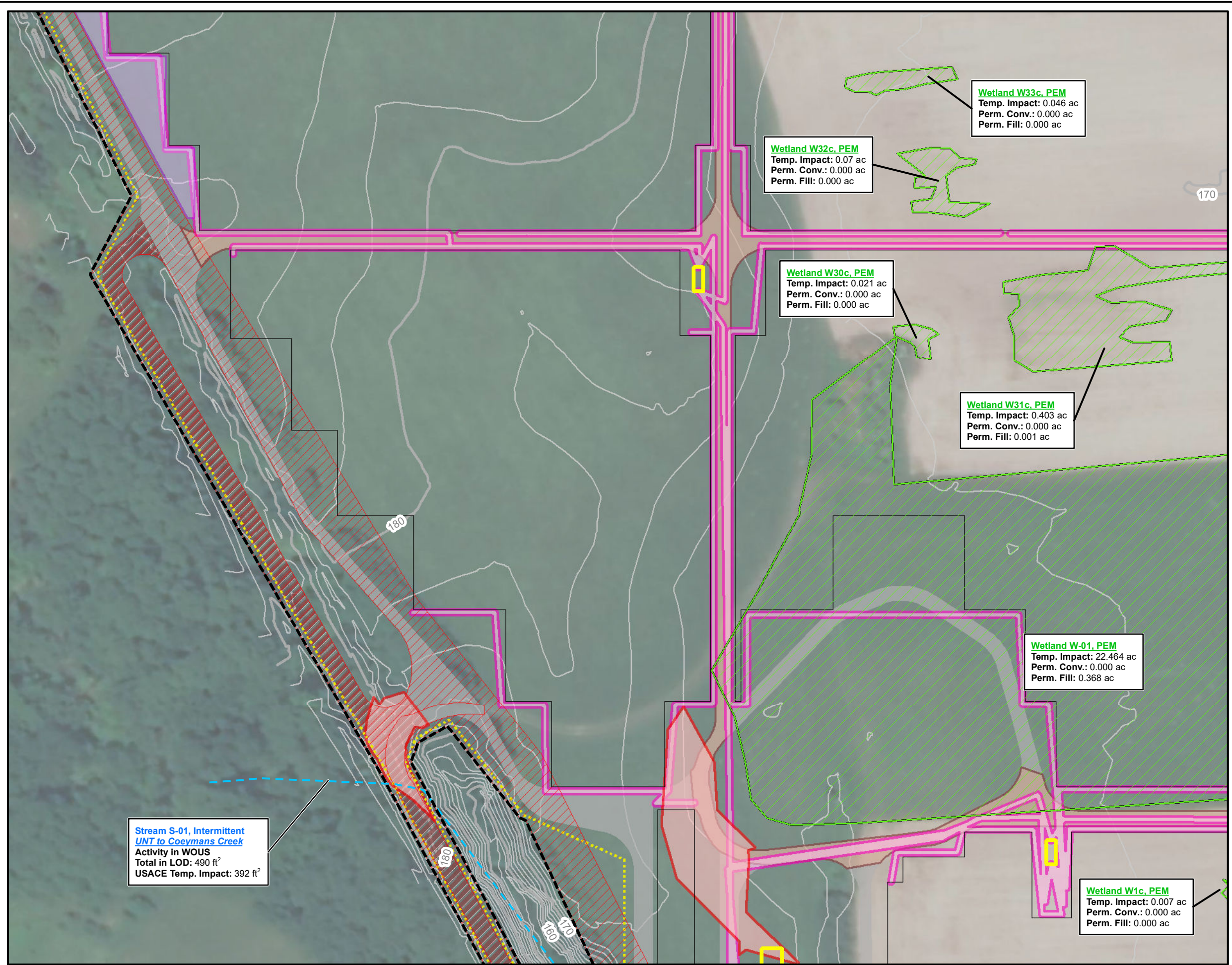
Figure 2. Site Plan Drawings Showing Impacts to Aquatic Resources
 Sheet 2 of 19
 Coeymans Solar Farm
 Albany County, New York

Prepared By:		Date:
	TETRA TECH	2/2021

Source: Esri, et. al., 2014; Tetra Tech, 2016-2020

Coordinate System: NAD 1983 State Plane New York East FIPS 3101 Feet

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Stream S-01, Intermittent
 UNT to Coeymans Creek
 Activity in WOUS
 Total in LOD: 490 ft²
 USACE Temp. Impact: 392 ft²

Wetland W32c, PEM
 Temp. Impact: 0.07 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 0.000 ac

Wetland W33c, PEM
 Temp. Impact: 0.046 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 0.000 ac

Wetland W30c, PEM
 Temp. Impact: 0.021 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 0.000 ac

Wetland W31c, PEM
 Temp. Impact: 0.403 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 0.001 ac

Wetland W-01, PEM
 Temp. Impact: 22.464 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 0.368 ac

Wetland W1c, PEM
 Temp. Impact: 0.007 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 0.000 ac

Legend

- Limit of Disturbance
- Module Location
- Improved Road
- Paved Road
- Unpaved and Unimproved Road
- Fence
- Electrical Components
- Tree Clearing
- Grading Areas
- Construction Laydown
- Conduit Trenching Area
- Intermittent Stream
- PEM Wetland

NAN-2019-00439-UDA
 Hecate Energy Albany 1, LLC and
 Hecate Energy Albany 2, LLC
 Drawing 5 of 23

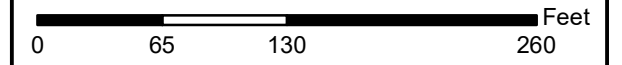
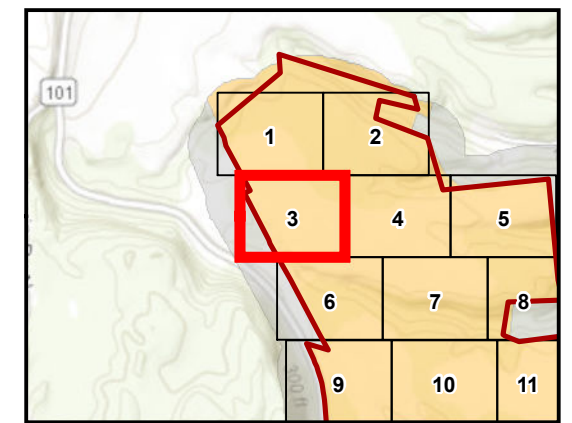
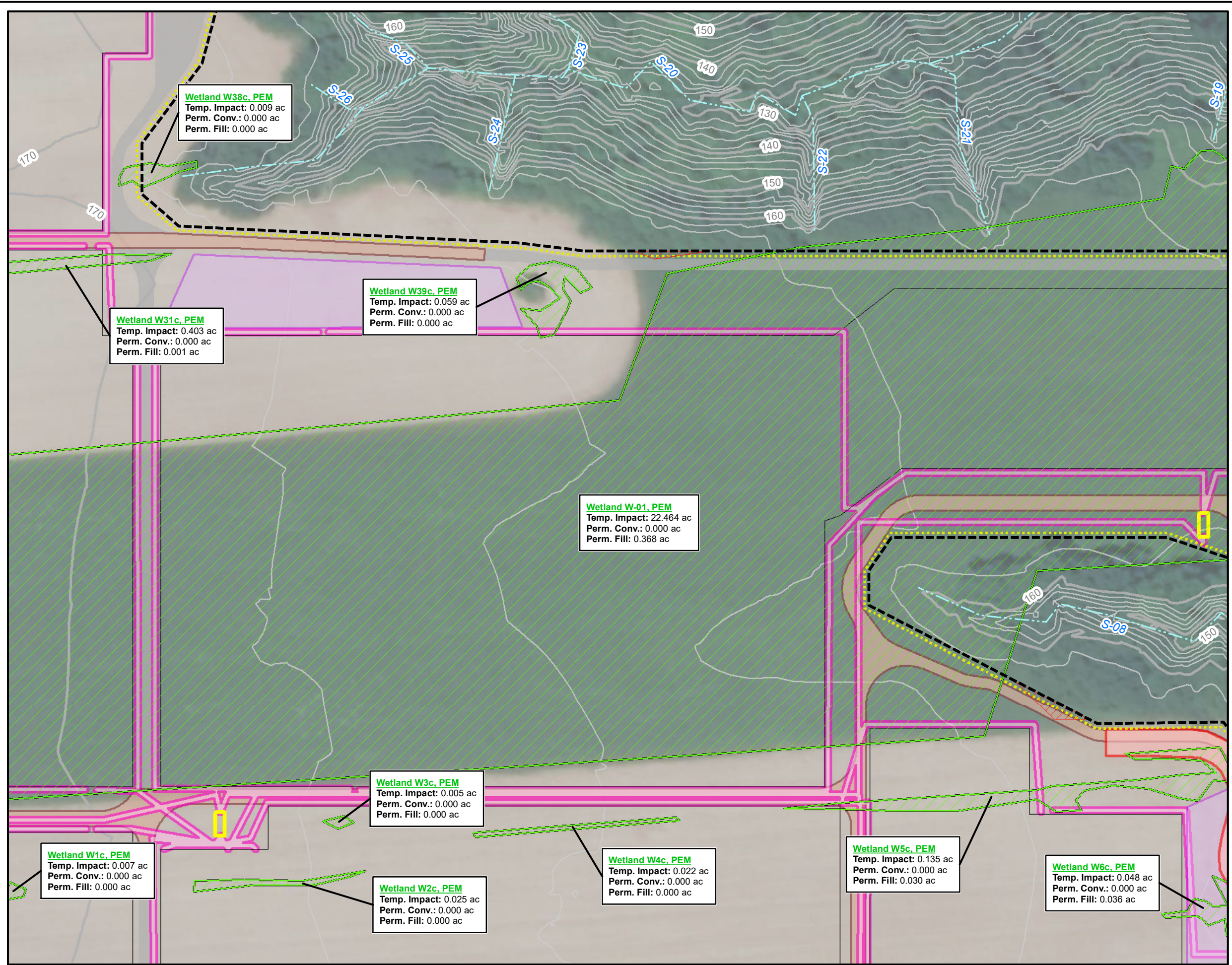


Figure 2. Site Plan Drawings Showing Impacts to Aquatic Resources
 Sheet 3 of 19
 Coeymans Solar Farm
 Albany County, New York

Prepared By: **TETRA TECH** Date: **2/2021**

Source: Esri, et. al., 2014; Tetra Tech, 2016-2020

Coordinate System: NAD 1983 State Plane New York East FIPS 3101 Feet



Wetland W38c, PEM
 Temp. Impact: 0.009 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 0.000 ac

Wetland W31c, PEM
 Temp. Impact: 0.403 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 0.001 ac

Wetland W39c, PEM
 Temp. Impact: 0.059 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 0.000 ac

Wetland W-01, PEM
 Temp. Impact: 22.464 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 0.368 ac

Wetland W3c, PEM
 Temp. Impact: 0.005 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 0.000 ac

Wetland W1c, PEM
 Temp. Impact: 0.007 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 0.000 ac

Wetland W2c, PEM
 Temp. Impact: 0.025 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 0.000 ac

Wetland W4c, PEM
 Temp. Impact: 0.022 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 0.000 ac

Wetland W5c, PEM
 Temp. Impact: 0.135 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 0.030 ac

Wetland W6c, PEM
 Temp. Impact: 0.048 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 0.036 ac

Legend

- Limit of Disturbance
- Module Location
- Paved Road
- Unpaved and Unimproved Road
- Fence
- Electrical Components
- Tree Clearing
- Grading Areas
- Construction Laydown
- Conduit Trenching Area
- Ephemeral Stream
- PEM Wetland

NAN-2019-00439-UDA
 Hecate Energy Albany 1, LLC and
 Hecate Energy Albany 2, LLC
 Drawing 6 of 23

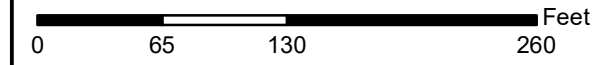
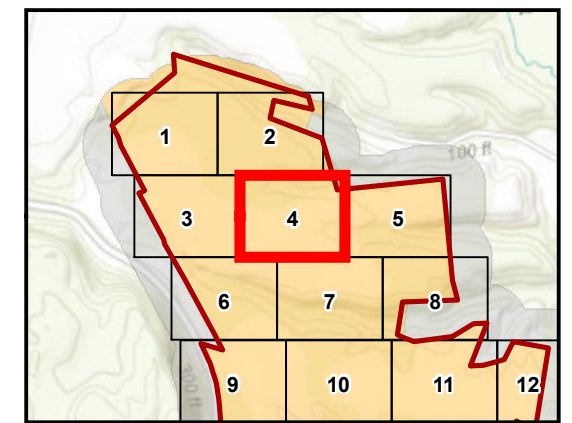


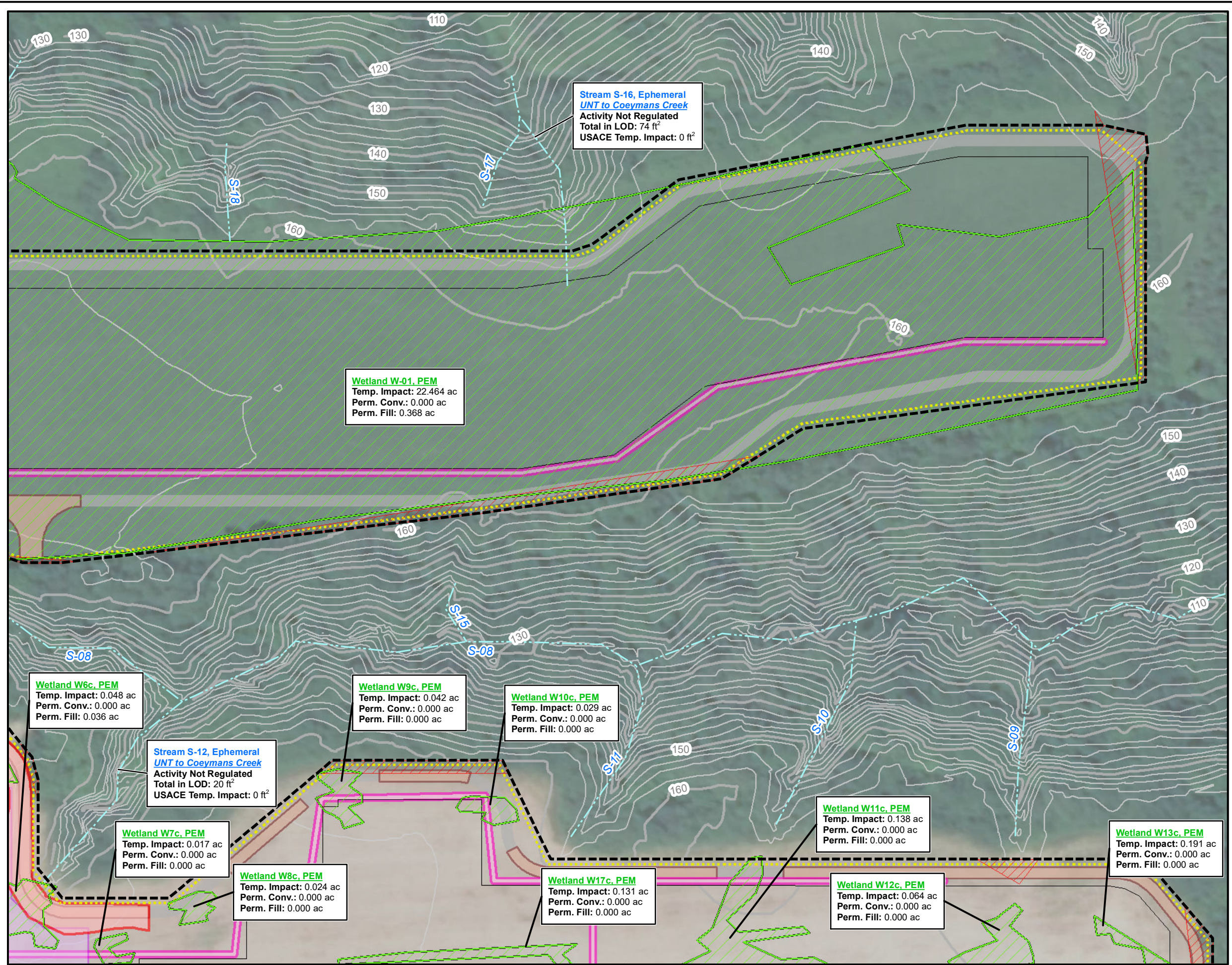
Figure 2. Site Plan Drawings Showing Impacts to Aquatic Resources
 Sheet 4 of 19
 Coeymans Solar Farm
 Albany County, New York

Prepared By: **TETRA TECH** Date: **2/2021**

Source: Esri, et. al., 2014; Tetra Tech, 2016-2020

Coordinate System: NAD 1983 State Plane New York East FIPS 3101 Feet

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Legend

- Limit of Disturbance
- Module Location
- Paved Road
- Unpaved and Unimproved Road
- Fence
- Tree Clearing
- Grading Areas
- Construction Laydown
- Conduit Trenching Area
- Ephemeral Stream
- PEM Wetland

NAN-2019-00439-UDA
Hecate Energy Albany 1, LLC and
Hecate Energy Albany 2, LLC
Drawing 7 of 23

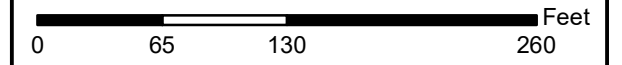
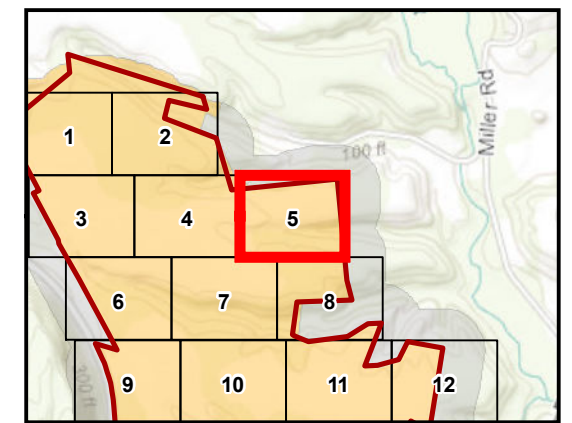


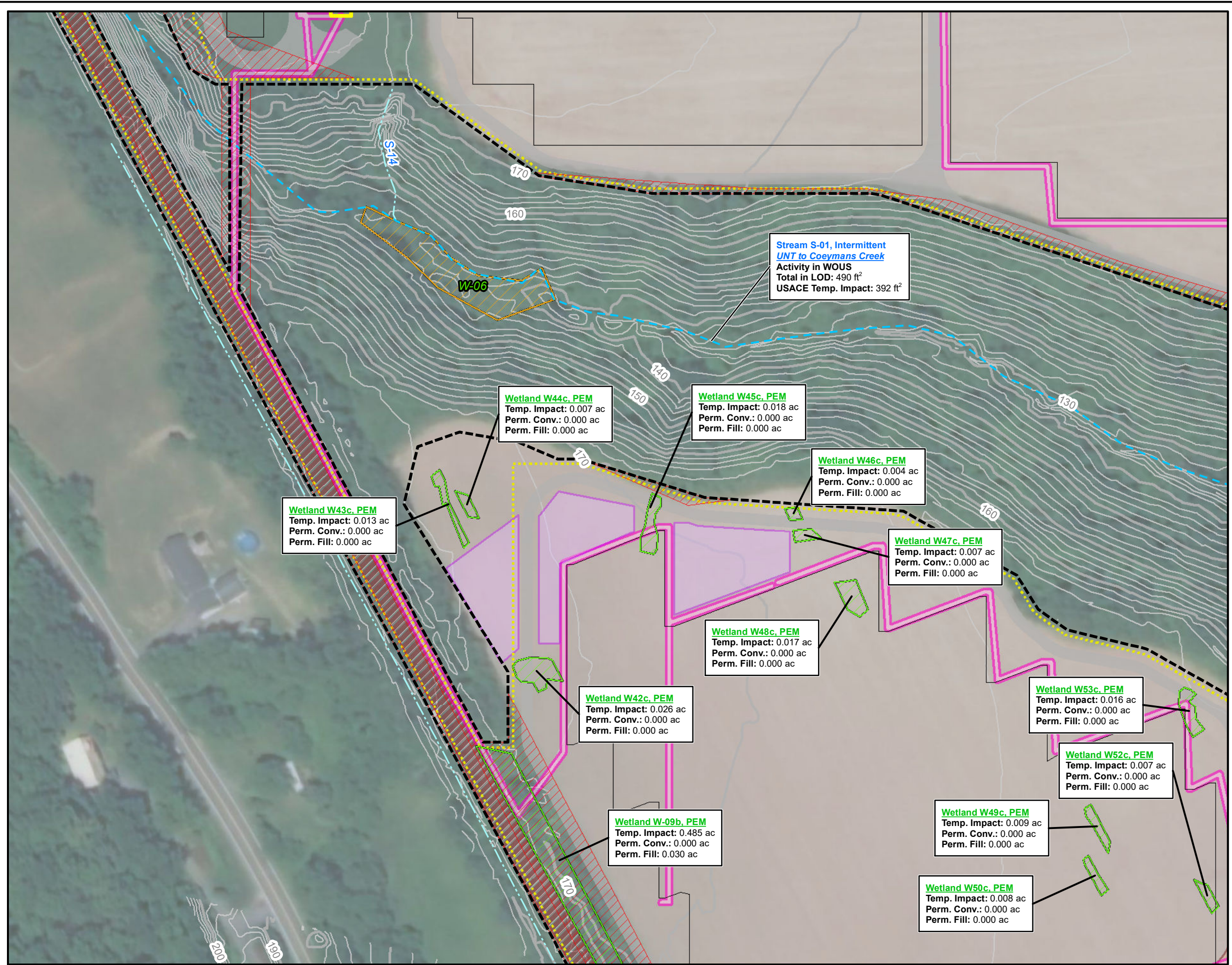
Figure 2. Site Plan Drawings Showing Impacts to Aquatic Resources
Sheet 5 of 19
Coeymans Solar Farm
Albany County, New York

Prepared By: **TETRA TECH** Date: **2/2021**

Source: Esri, et. al., 2014; Tetra Tech, 2016-2020

Coordinate System: NAD 1983 State Plane New York East FIPS 3101 Feet

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Legend

- Limit of Disturbance
- Module Location
- Improved Road
- Paved Road
- Unpaved and Unimproved Road
- Fence
- Electrical Components
- Tree Clearing
- Construction Laydown
- Conduit Trenching Area
- Ephemeral Stream
- Intermittent Stream
- PEM Wetland
- PSS Wetland

NAN-2019-00439-UDA
 Hecate Energy Albany 1, LLC and
 Hecate Energy Albany 2, LLC
 Drawing 8 of 23

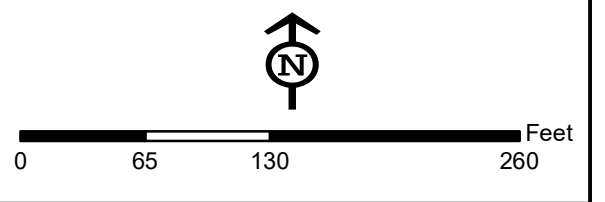
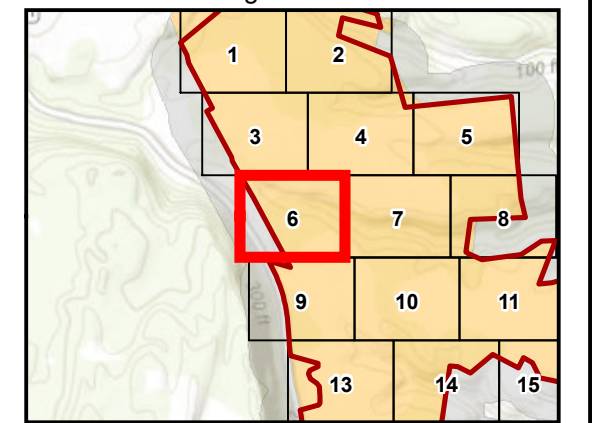


Figure 2. Site Plan Drawings Showing Impacts to Aquatic Resources
 Sheet 6 of 19
 Coeymans Solar Farm
 Albany County, New York

Prepared By:		Date:
	TETRA TECH	2/2021

Source: Esri, et. al., 2014; Tetra Tech, 2016-2020

Coordinate System: NAD 1983 State Plane New York East FIPS 3101 Feet

Stream S-01, Intermittent UNT to Coeymans Creek
 Activity in WOUS
 Total in LOD: 490 ft²
 USACE Temp. Impact: 392 ft²

Wetland W43c, PEM
 Temp. Impact: 0.013 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 0.000 ac

Wetland W44c, PEM
 Temp. Impact: 0.007 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 0.000 ac

Wetland W45c, PEM
 Temp. Impact: 0.018 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 0.000 ac

Wetland W46c, PEM
 Temp. Impact: 0.004 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 0.000 ac

Wetland W47c, PEM
 Temp. Impact: 0.007 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 0.000 ac

Wetland W48c, PEM
 Temp. Impact: 0.017 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 0.000 ac

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 Temp. Impact: 0.026 ac
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 Perm. Fill: 0.000 ac

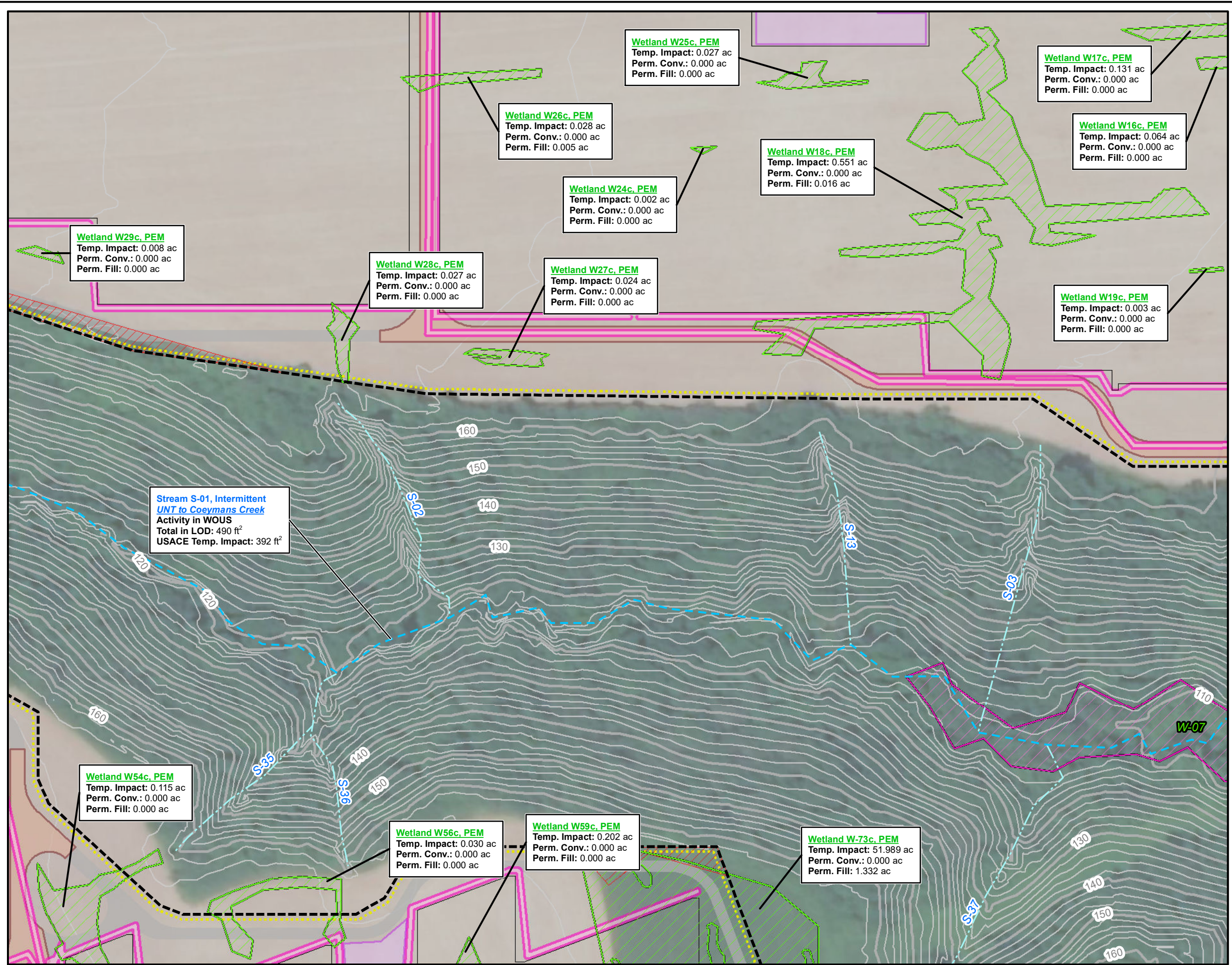
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 Perm. Conv.: 0.000 ac
 Perm. Fill: 0.000 ac

Wetland W52c, PEM
 Temp. Impact: 0.007 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 0.000 ac

Wetland W-09b, PEM
 Temp. Impact: 0.485 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 0.030 ac

Wetland W49c, PEM
 Temp. Impact: 0.009 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 0.000 ac

Wetland W50c, PEM
 Temp. Impact: 0.008 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 0.000 ac



Legend

- Limit of Disturbance
- Module Location
- Paved Road
- Unpaved and Unimproved Road
- Fence
- Tree Clearing
- Construction Laydown
- Conduit Trenching Area
- Ephemeral Stream
- Intermittent Stream
- PEM Wetland
- PFO Wetland

NAN-2019-00439-UDA
Hecate Energy Albany 1, LLC and
Hecate Energy Albany 2, LLC
Drawing 9 of 23

0 65 130 260 Feet

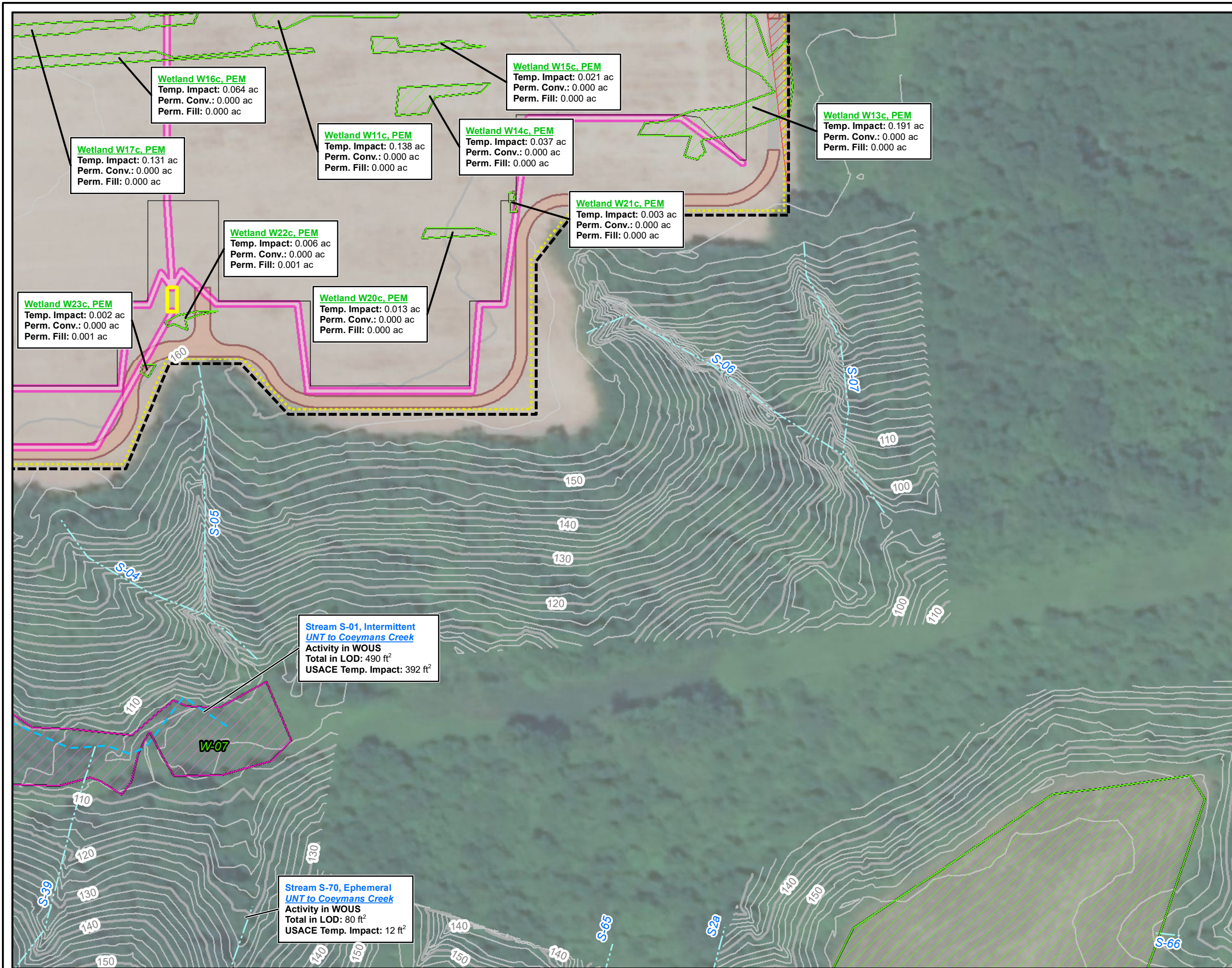
Figure 2. Site Plan Drawings Showing Impacts to Aquatic Resources
Sheet 7 of 19
Coeymans Solar Farm
Albany County, New York

Prepared By:		Date:
	TETRA TECH	2/2021

Source: Esri, et. al., 2014; Tetra Tech, 2016-2020

Coordinate System: NAD 1983 State Plane New York East FIPS 3101 Feet

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Legend

- Limit of Disturbance
- Module Location
- Paved Road
- Unpaved and Unimproved Road
- Fence
- Electrical Components
- Tree Clearing
- Conduit Trenching Area
- Ephemeral Stream
- Intermittent Stream
- PEM Wetland
- PFO Wetland

NAN-2019-00439-UDA
Hecate Energy Albany 1, LLC and
Hecate Energy Albany 2, LLC
Drawing 10 of 23

0 65 130 260 Feet

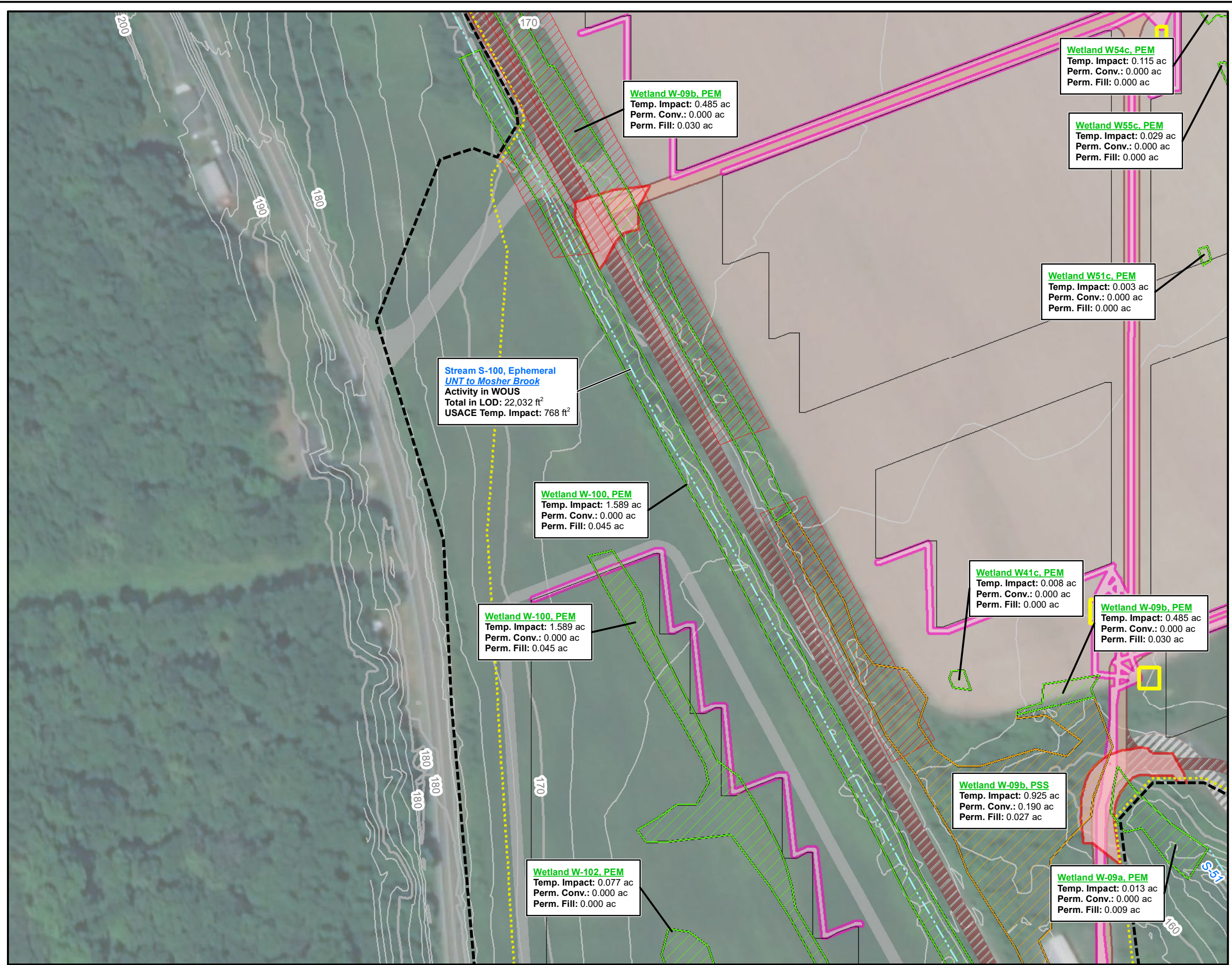
Figure 2. Site Plan Drawings Showing Impacts to Aquatic Resources
Sheet 8 of 19
Coeymans Solar Farm
Albany County, New York

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Legend

- Limit of Disturbance
- Module Location
- Existing Gravel Road
- Improved Road
- Paved Road
- Unpaved and Unimproved Road
- Fence
- Electrical Components
- Tree Clearing
- Grading Areas
- Conduit Trenching Area
- Ephemeral Stream
- PEM Wetland
- PSS Wetland

NAN-2019-00439-UDA
 Hecate Energy Albany 1, LLC and
 Hecate Energy Albany 2, LLC
 Drawing 11 of 23

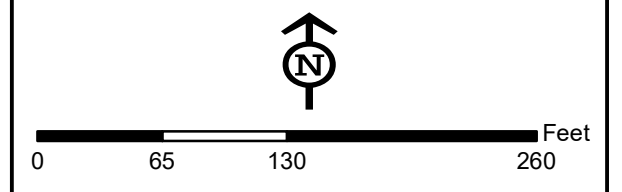
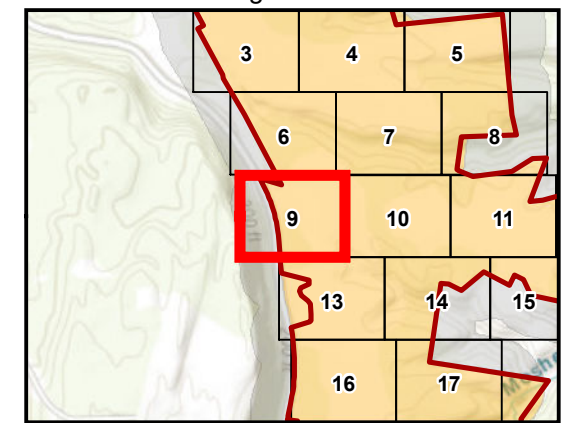


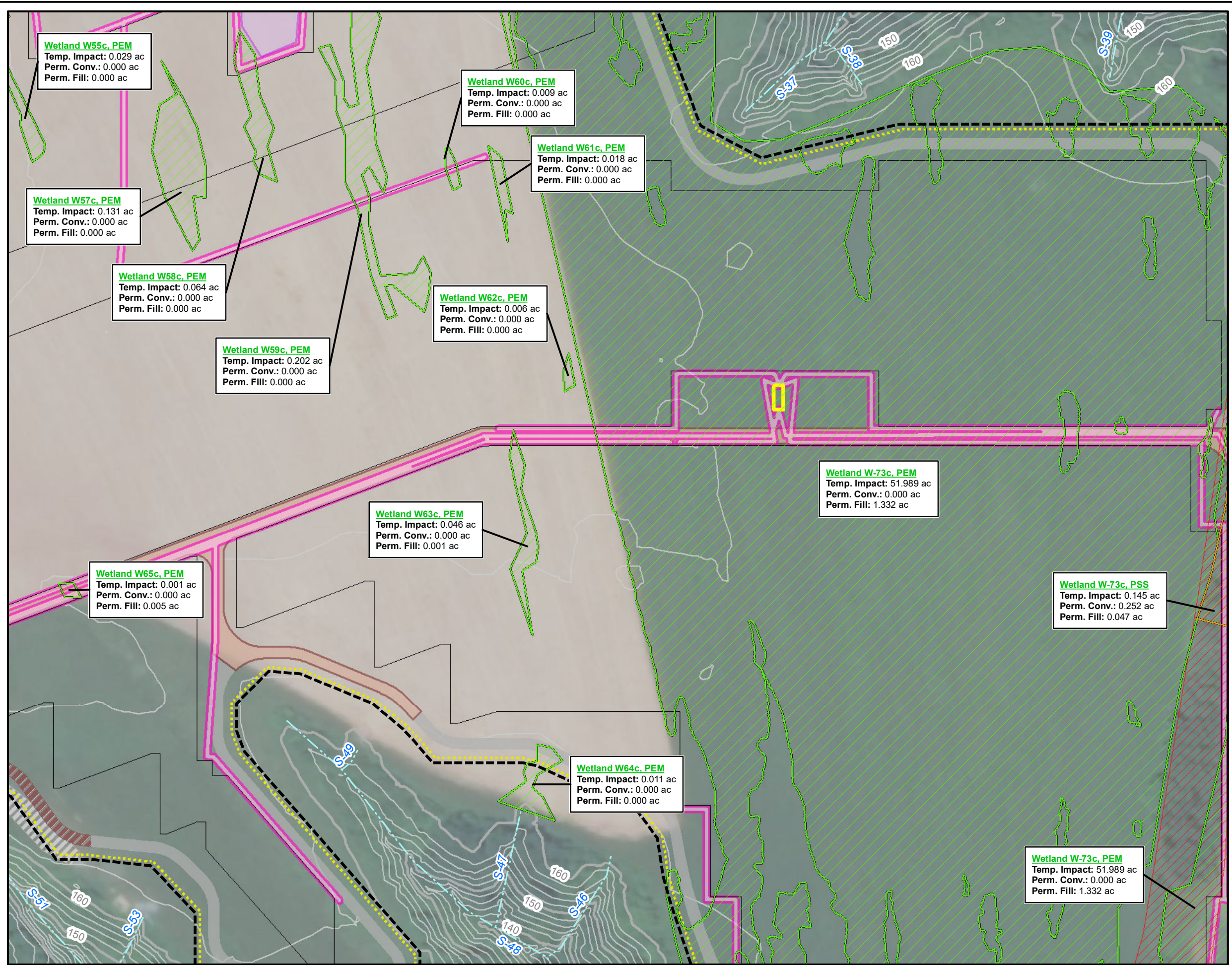
Figure 2. Site Plan Drawings Showing Impacts to Aquatic Resources
 Sheet 9 of 19
 Coeymans Solar Farm
 Albany County, New York

Prepared By:	TETRA TECH	Date:	2/2021
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Source: Esri, et. al., 2014; Tetra Tech, 2016-2020

Coordinate System: NAD 1983 State Plane New York East FIPS 3101 Feet

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Wetland W55c, PEM
 Temp. Impact: 0.029 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 0.000 ac

Wetland W60c, PEM
 Temp. Impact: 0.009 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 0.000 ac

Wetland W61c, PEM
 Temp. Impact: 0.018 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 0.000 ac

Wetland W57c, PEM
 Temp. Impact: 0.131 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 0.000 ac

Wetland W58c, PEM
 Temp. Impact: 0.064 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 0.000 ac

Wetland W62c, PEM
 Temp. Impact: 0.006 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 0.000 ac

Wetland W59c, PEM
 Temp. Impact: 0.202 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 0.000 ac

Wetland W-73c, PEM
 Temp. Impact: 51.989 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 1.332 ac

Wetland W63c, PEM
 Temp. Impact: 0.046 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 0.001 ac

Wetland W65c, PEM
 Temp. Impact: 0.001 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 0.005 ac

Wetland W-73c, PSS
 Temp. Impact: 0.145 ac
 Perm. Conv.: 0.252 ac
 Perm. Fill: 0.047 ac

Wetland W64c, PEM
 Temp. Impact: 0.011 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 0.000 ac

Wetland W-73c, PEM
 Temp. Impact: 51.989 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 1.332 ac

Legend

- Limit of Disturbance
- Module Location
- Existing Gravel Road
- Improved Road
- Paved Road
- Unpaved and Unimproved Road
- Fence
- Electrical Components
- Tree Clearing
- Construction Laydown
- Conduit Trenching Area
- Ephemeral Stream
- PEM Wetland
- PSS Wetland

NAN-2019-00439-UDA
 Hecate Energy Albany 1, LLC and
 Hecate Energy Albany 2, LLC
 Drawing 12 of 23

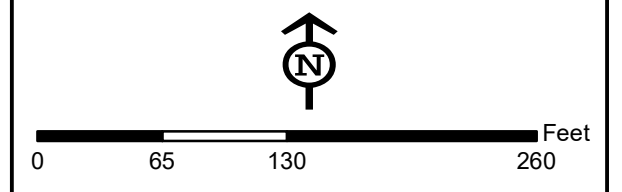
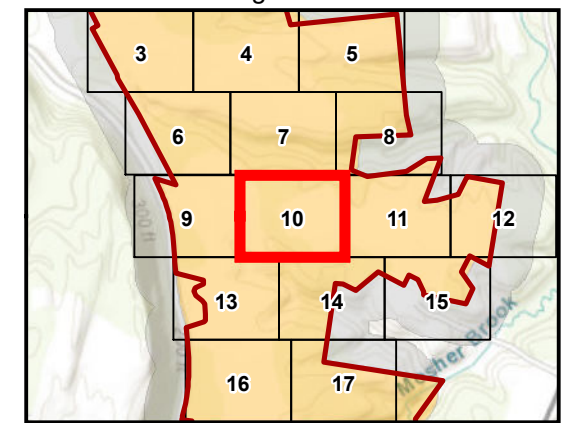


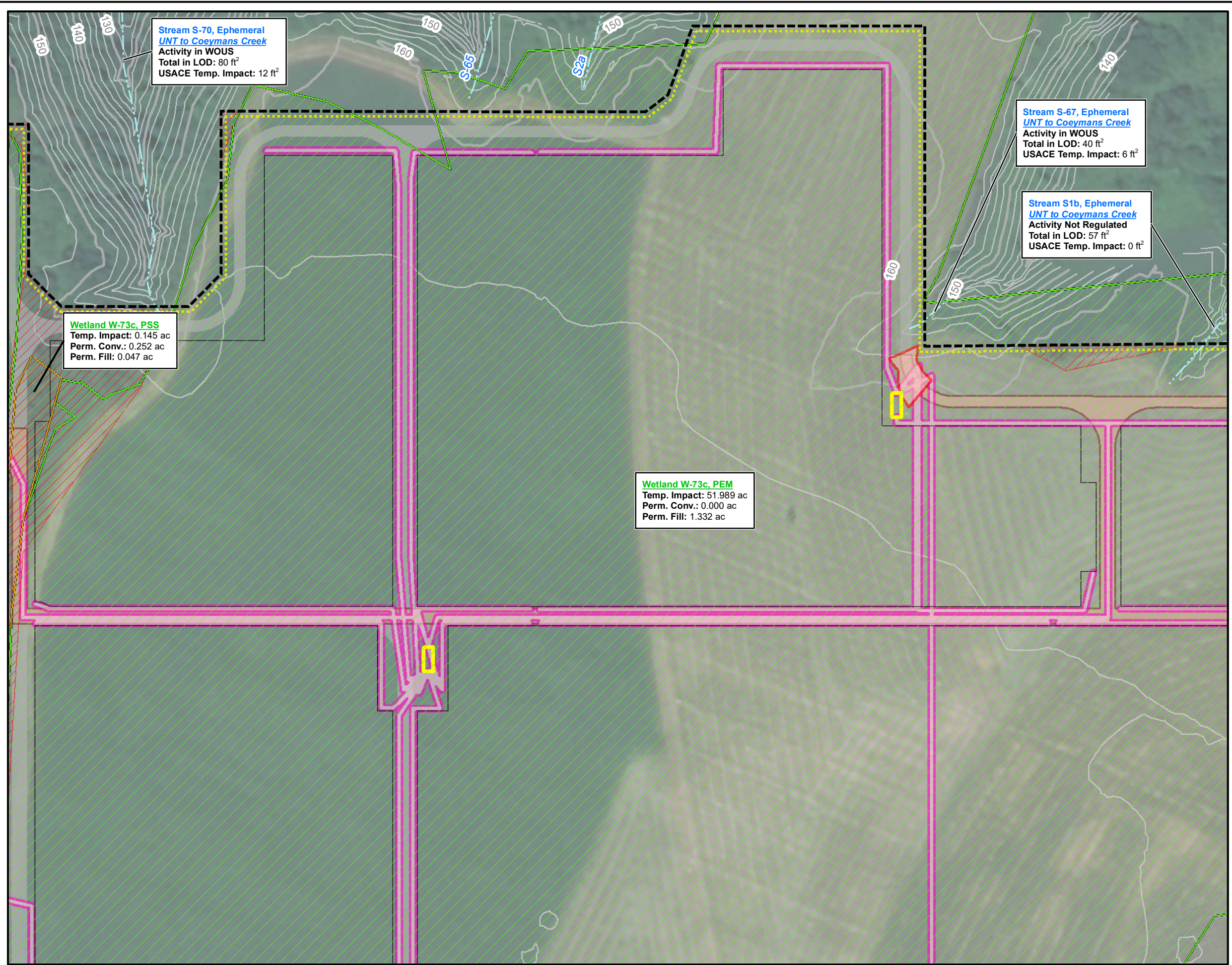
Figure 2. Site Plan Drawings Showing Impacts to Aquatic Resources
 Sheet 10 of 19
 Coeymans Solar Farm
 Albany County, New York

Prepared By: **TETRA TECH** Date: **2/2021**

Source: Esri, et. al., 2014; Tetra Tech, 2016-2020

Coordinate System: NAD 1983 State Plane New York East FIPS 3101 Feet

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**Stream S-70, Ephemeral
UNT to Coeymans Creek**
Activity in WOUS
Total in LOD: 80 ft²
USACE Temp. Impact: 12 ft²

**Stream S-67, Ephemeral
UNT to Coeymans Creek**
Activity in WOUS
Total in LOD: 40 ft²
USACE Temp. Impact: 6 ft²

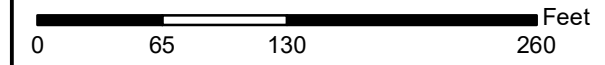
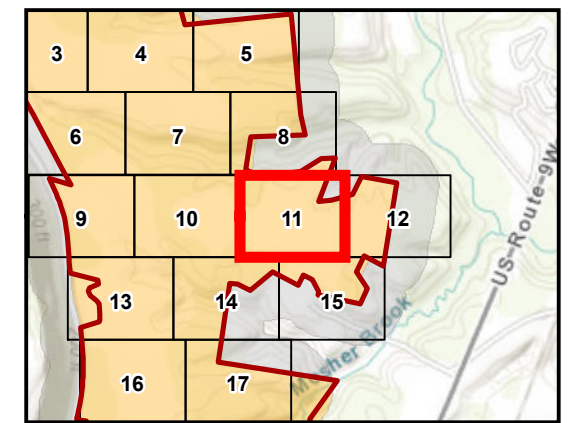
**Stream S1b, Ephemeral
UNT to Coeymans Creek**
Activity Not Regulated
Total in LOD: 57 ft²
USACE Temp. Impact: 0 ft²

Wetland W-73c, PSS
Temp. Impact: 0.145 ac
Perm. Conv.: 0.252 ac
Perm. Fill: 0.047 ac

Wetland W-73c, PEM
Temp. Impact: 51.989 ac
Perm. Conv.: 0.000 ac
Perm. Fill: 1.332 ac

- Legend**
- Limit of Disturbance
 - Module Location
 - Paved Road
 - Unpaved and Unimproved Road
 - Fence
 - Electrical Components
 - Tree Clearing
 - Grading Areas
 - Conduit Trenching Area
 - Ephemeral Stream
 - PEM Wetland
 - PSS Wetland

NAN-2019-00439-UDA
Hecate Energy Albany 1, LLC and
Hecate Energy Albany 2, LLC
Drawing 13 of 23



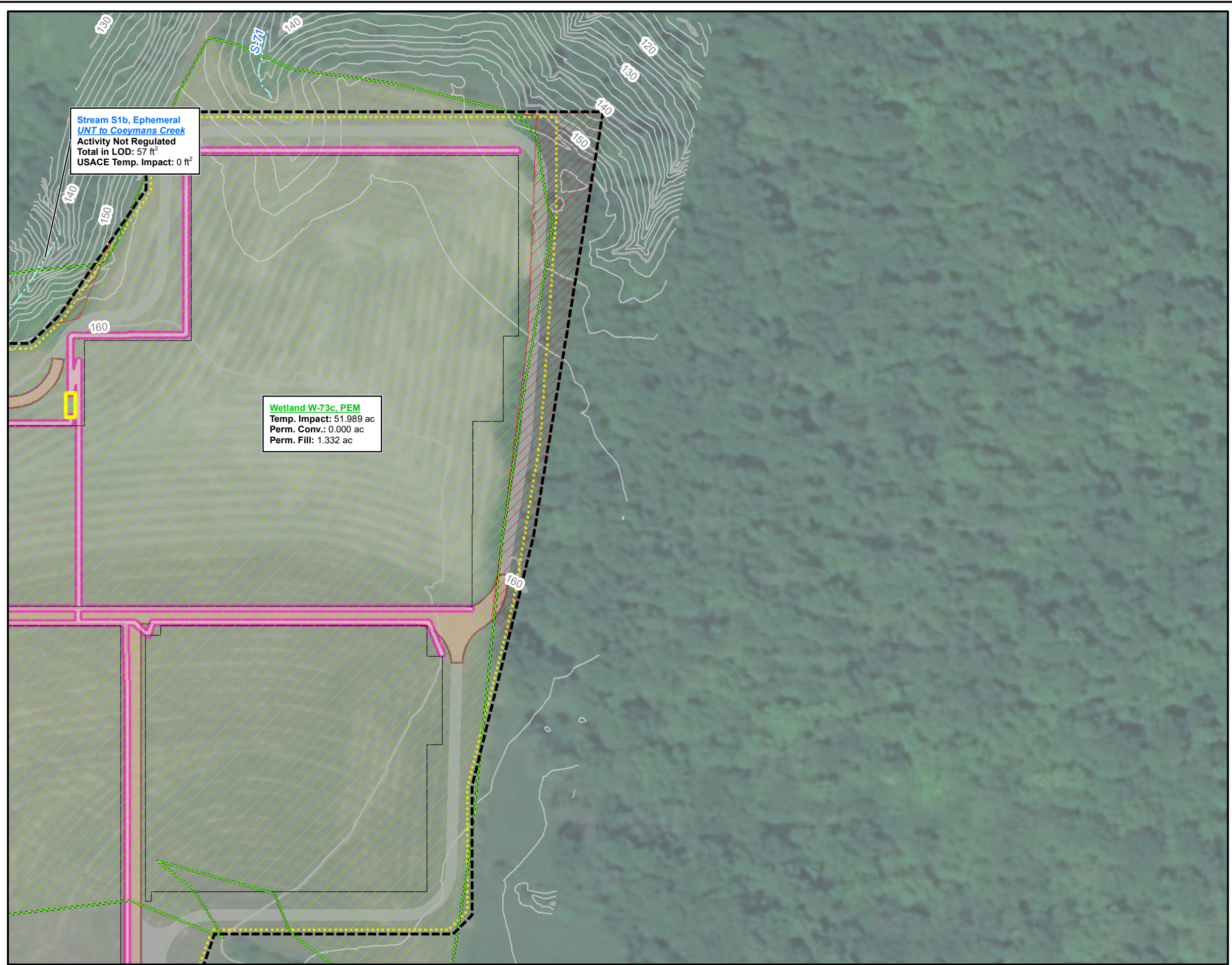
**Figure 2. Site Plan Drawings Showing
Impacts to Aquatic Resources
Sheet 11 of 19
Coeymans Solar Farm
Albany County, New York**

Prepared By: **TETRA TECH** Date: **2/2021**

Source: Esri, et. al., 2014; Tetra Tech, 2016-2020

Coordinate System: NAD 1983 State Plane New York East FIPS 3101 Feet

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Stream S1b, Ephemeral
 UNT to Coeymans Creek
 Activity Not Regulated
 Total in LOD: 57 ft²
 USACE Temp. Impact: 0 ft²

Wetland W-73c, PEM
 Temp. Impact: 51.989 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 1.332 ac

Legend

- Limit of Disturbance
- Module Location
- Paved Road
- Unpaved and Unimproved Road
- Fence
- Electrical Components
- Tree Clearing
- Conduit Trenching Area
- Ephemeral Stream
- PEM Wetland

NAN-2019-00439-UDA
 Hecate Energy Albany 1, LLC and
 Hecate Energy Albany 2, LLC
 Drawing 14 of 23

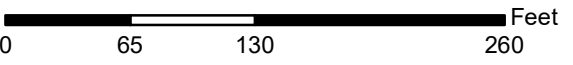
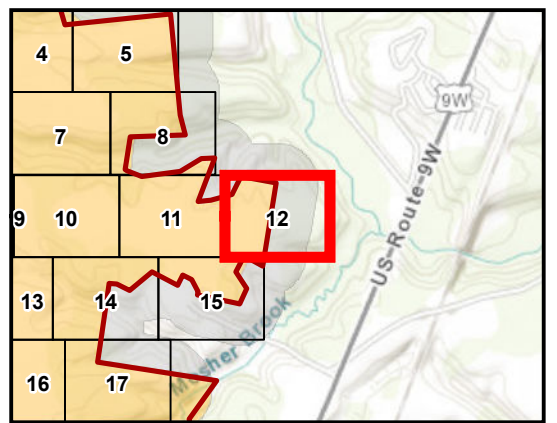
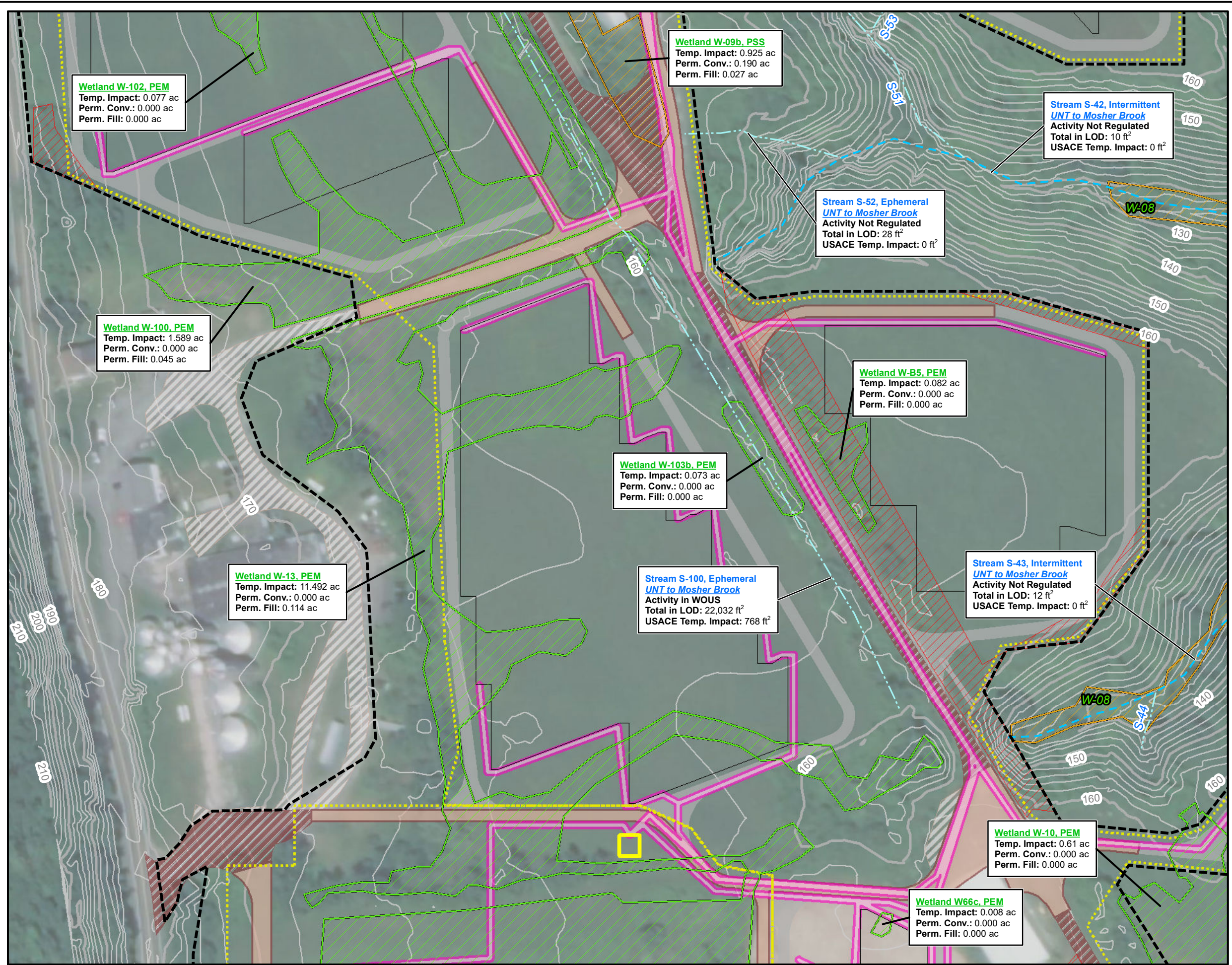


Figure 2. Site Plan Drawings Showing Impacts to Aquatic Resources
 Sheet 12 of 19
 Coeymans Solar Farm
 Albany County, New York

Prepared By: TETRA TECH	Date: 2/2021
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Source: Esri, et. al., 2014; Tetra Tech, 2016-2020

Coordinate System: NAD 1983 State Plane New York East FIPS 3101 Feet



Legend

- Limit of Disturbance
- Module Location
- Existing Gravel Road
- Improved Road
- Paved Road
- Unpaved and Unimproved Road
- Fence
- Electrical Components
- Tree Clearing
- Conduit Trenching Area
- Ephemeral Stream
- Intermittent Stream
- PEM Wetland
- PSS Wetland

NAN-2019-00439-UDA
Hecate Energy Albany 1, LLC and
Hecate Energy Albany 2, LLC
Drawing 15 of 23

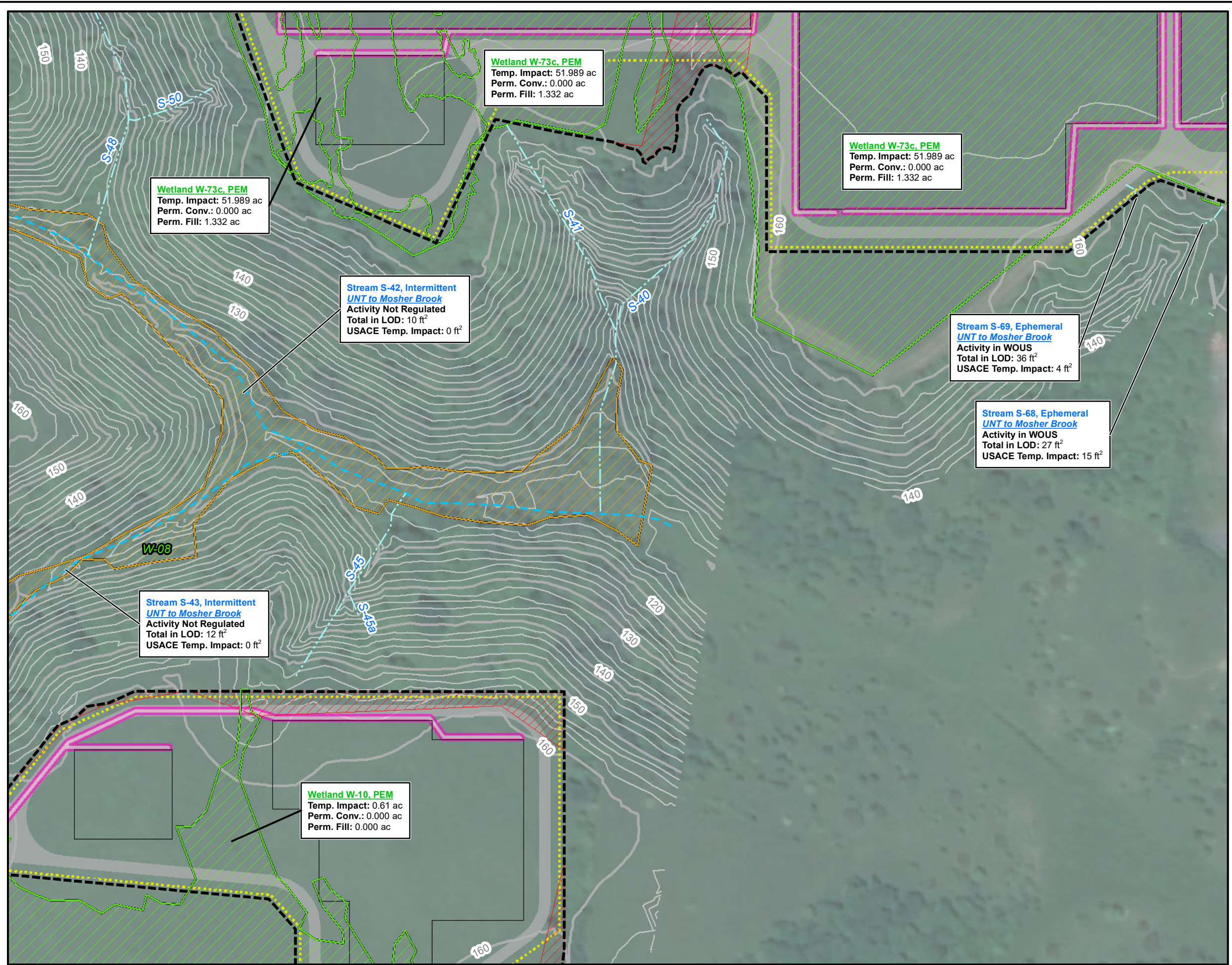
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Figure 2. Site Plan Drawings Showing Impacts to Aquatic Resources
Sheet 13 of 19
Coeymans Solar Farm
Albany County, New York

Prepared By: **TETRA TECH** Date: **2/2021**

Source: Esri, et. al., 2014; Tetra Tech, 2016-2020

Coordinate System: NAD 1983 State Plane New York East FIPS 3101 Feet



Legend

- Limit of Disturbance
- Module Location
- Unpaved and Unimproved Road
- Fence
- Tree Clearing
- Conduit Trenching Area
- Ephemeral Stream
- Intermittent Stream
- PEM Wetland
- PSS Wetland

NAN-2019-00439-UDA
 Hecate Energy Albany 1, LLC and
 Hecate Energy Albany 2, LLC
 Drawing 16 of 23

N

Feet

0 65 130 260

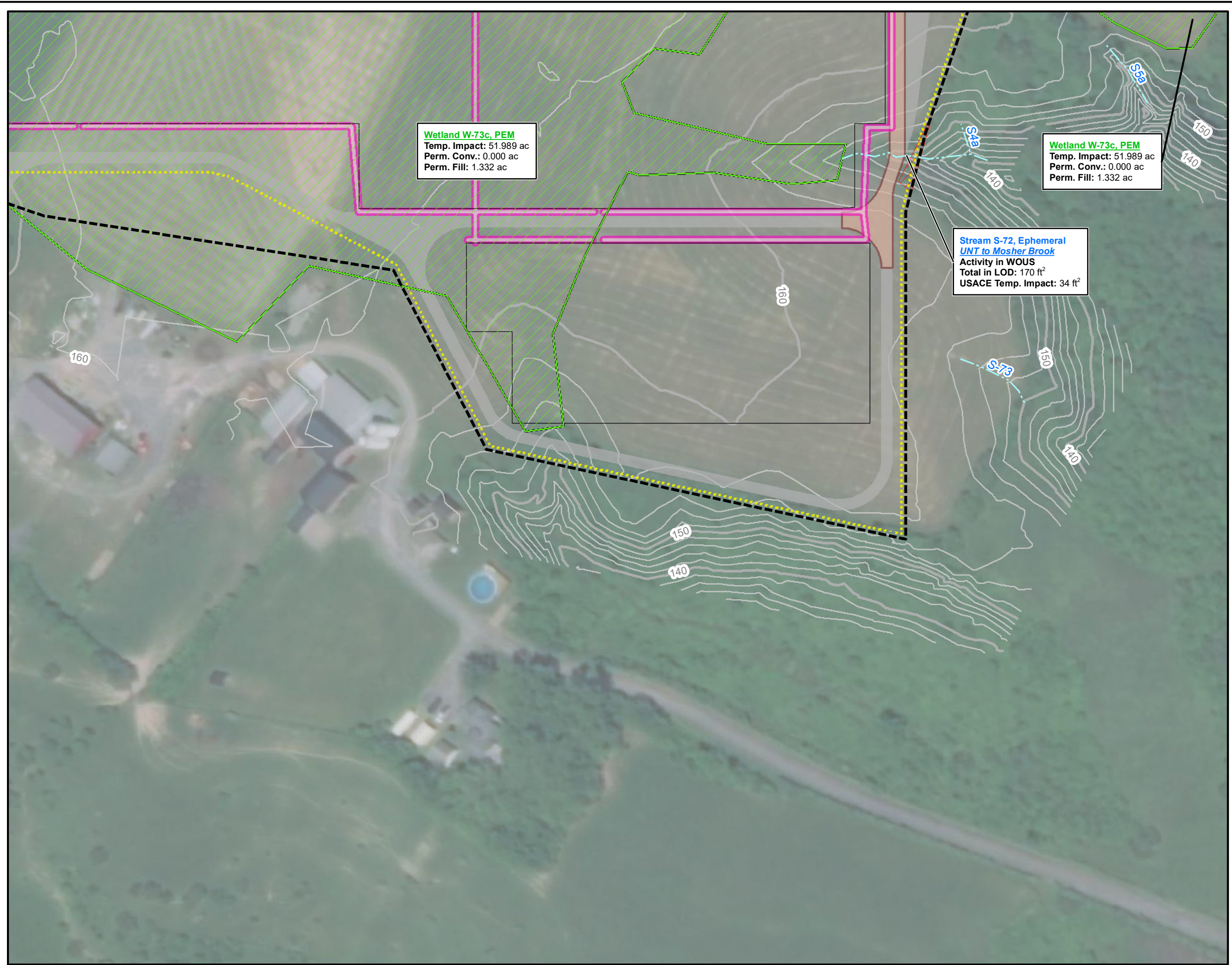
Figure 2. Site Plan Drawings Showing Impacts to Aquatic Resources
 Sheet 14 of 19
 Coeymans Solar Farm
 Albany County, New York

Prepared By: TETRA TECH	Date: 2/2021
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Source: Esri, et. al., 2014; Tetra Tech, 2016-2020

Coordinate System: NAD 1983 State Plane New York East FIPS 3101 Feet

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Wetland W-73c, PEM
 Temp. Impact: 51.989 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 1.332 ac

Wetland W-73c, PEM
 Temp. Impact: 51.989 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 1.332 ac

**Stream S-72, Ephemeral
 UNT to Mosher Brook**
 Activity in WOUS
 Total in LOD: 170 ft²
 USACE Temp. Impact: 34 ft²

Legend

- Limit of Disturbance
- Module Location
- Paved Road
- Unpaved and Unimproved Road
- Fence
- Tree Clearing
- Conduit Trenching Area
- Ephemeral Stream
- PEM Wetland

NAN-2019-00439-UDA
 Hecate Energy Albany 1, LLC and
 Hecate Energy Albany 2, LLC
 Drawing 17 of 23

N

0 65 130 260 Feet

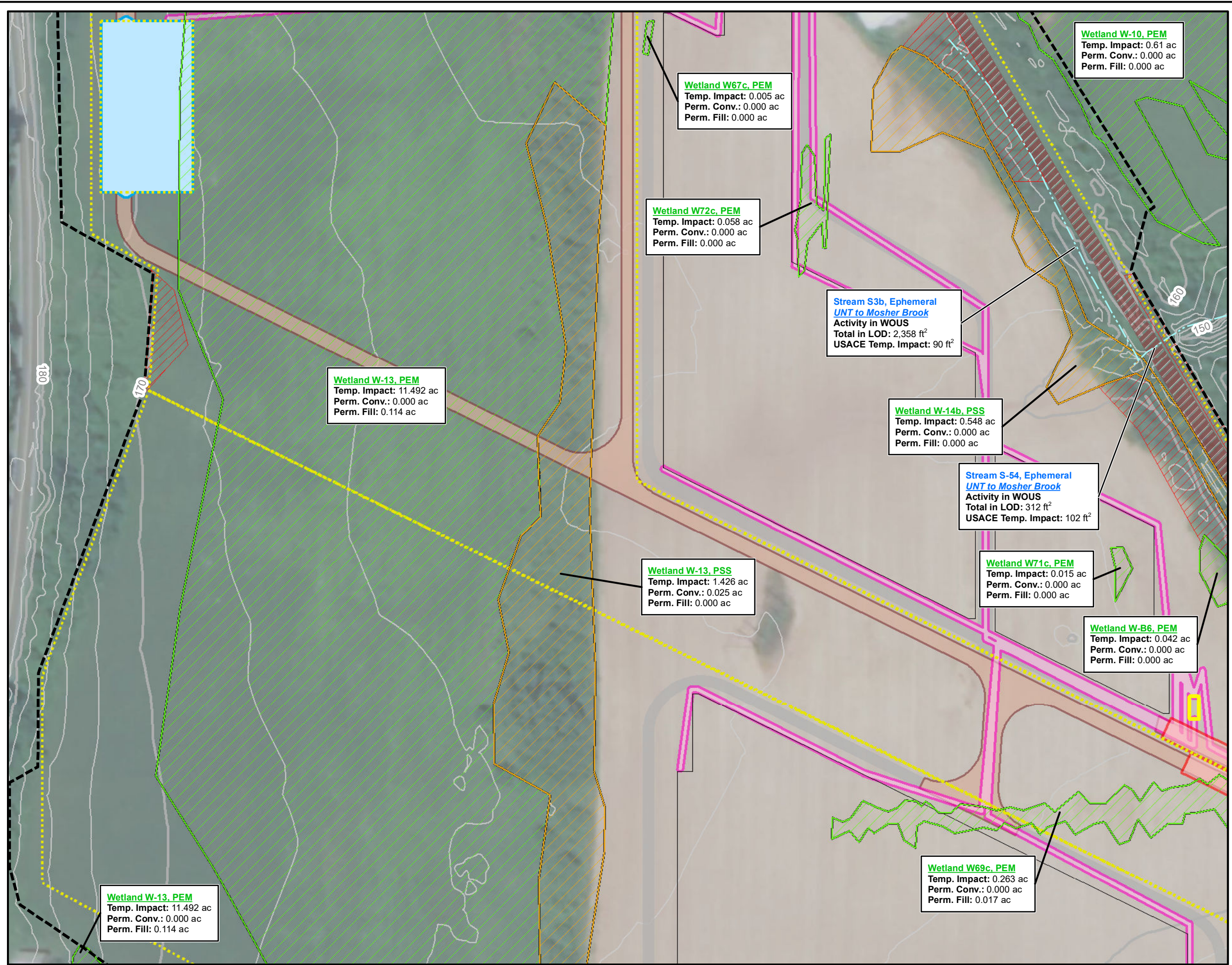
Figure 2. Site Plan Drawings Showing Impacts to Aquatic Resources
 Sheet 15 of 19
 Coeymans Solar Farm
 Albany County, New York

Prepared By: **TETRA TECH** Date: **2/2021**

Source: Esri, et. al., 2014; Tetra Tech, 2016-2020

Coordinate System: NAD 1983 State Plane New York East FIPS 3101 Feet

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Legend

- Limit of Disturbance
- Module Location
- Improved Road
- Paved Road
- Unpaved and Unimproved Road
- Fence
- Electrical Components
- Tree Clearing
- Grading Areas
- Conduit Trenching Area
- Substation Area
- Ephemeral Stream
- PEM Wetland
- PSS Wetland

NAN-2019-00439-UDA
Hecate Energy Albany 1, LLC and
Hecate Energy Albany 2, LLC
Drawing 18 of 23

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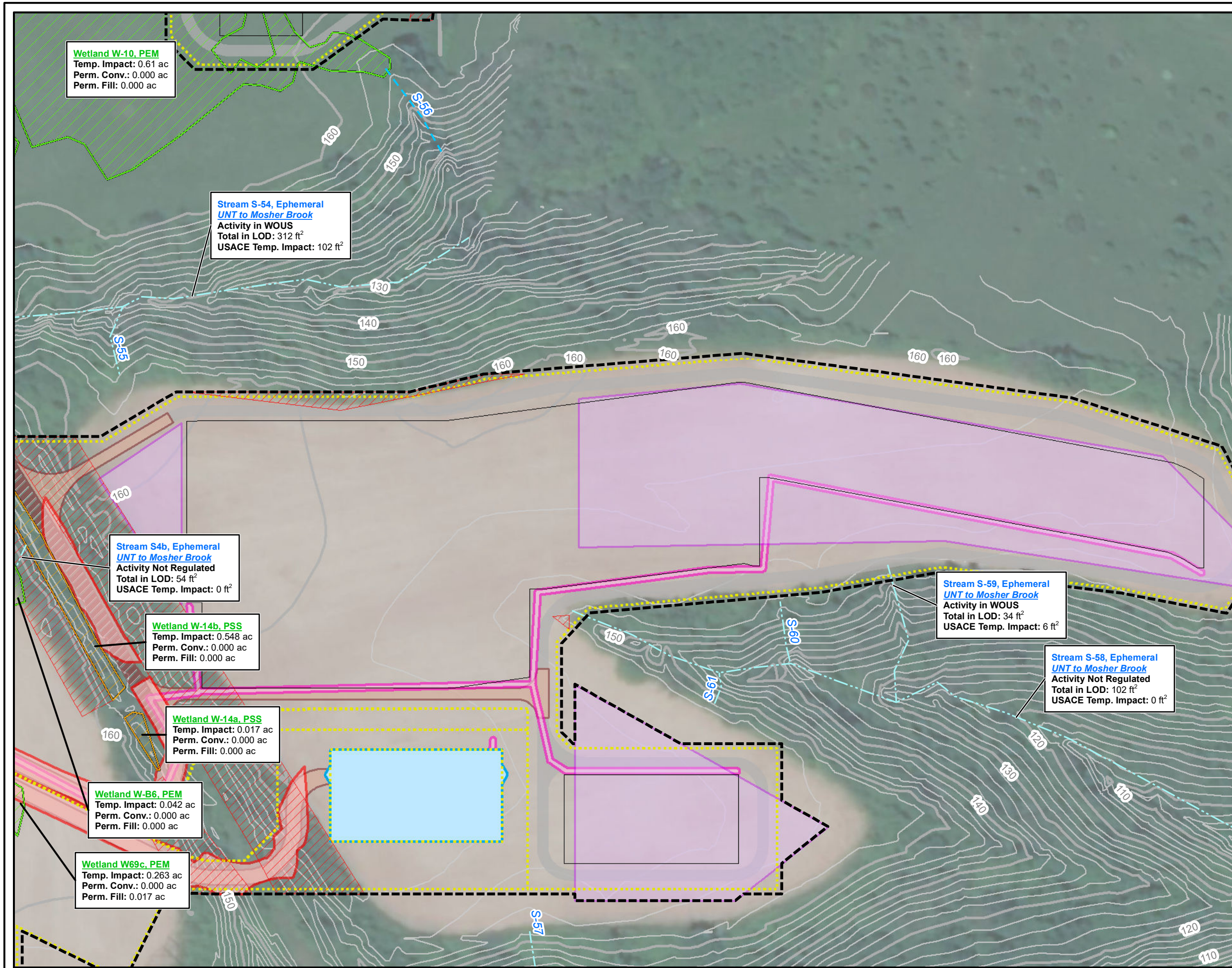
Figure 2. Site Plan Drawings Showing Impacts to Aquatic Resources
Sheet 16 of 19
Coeymans Solar Farm
Albany County, New York

Prepared By: **TETRA TECH** Date: **2/2021**

Source: Esri, et. al., 2014; Tetra Tech, 2016-2020

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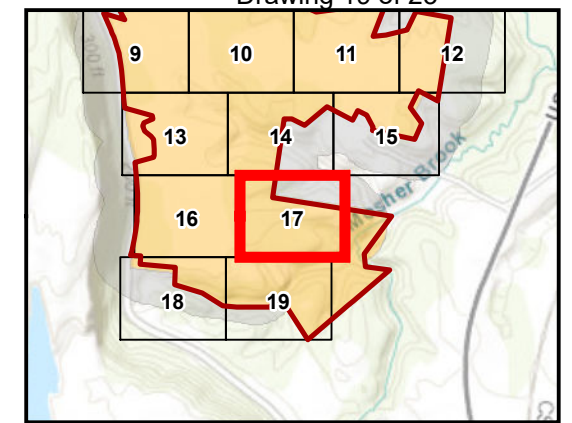
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Legend

- Limit of Disturbance
- Module Location
- Improved Road
- Paved Road
- Unpaved and Unimproved Road
- Fence
- Tree Clearing
- Grading Areas
- Construction Laydown
- Conduit Trenching Area
- Substation Area
- Ephemeral Stream
- Intermittent Stream
- PEM Wetland NAN-2019-00439-UDA
- PSS Wetland Hecate Energy Albany 1, LLC and Hecate Energy Albany 2, LLC

Drawing 19 of 23



N

Feet

0 65 130 260

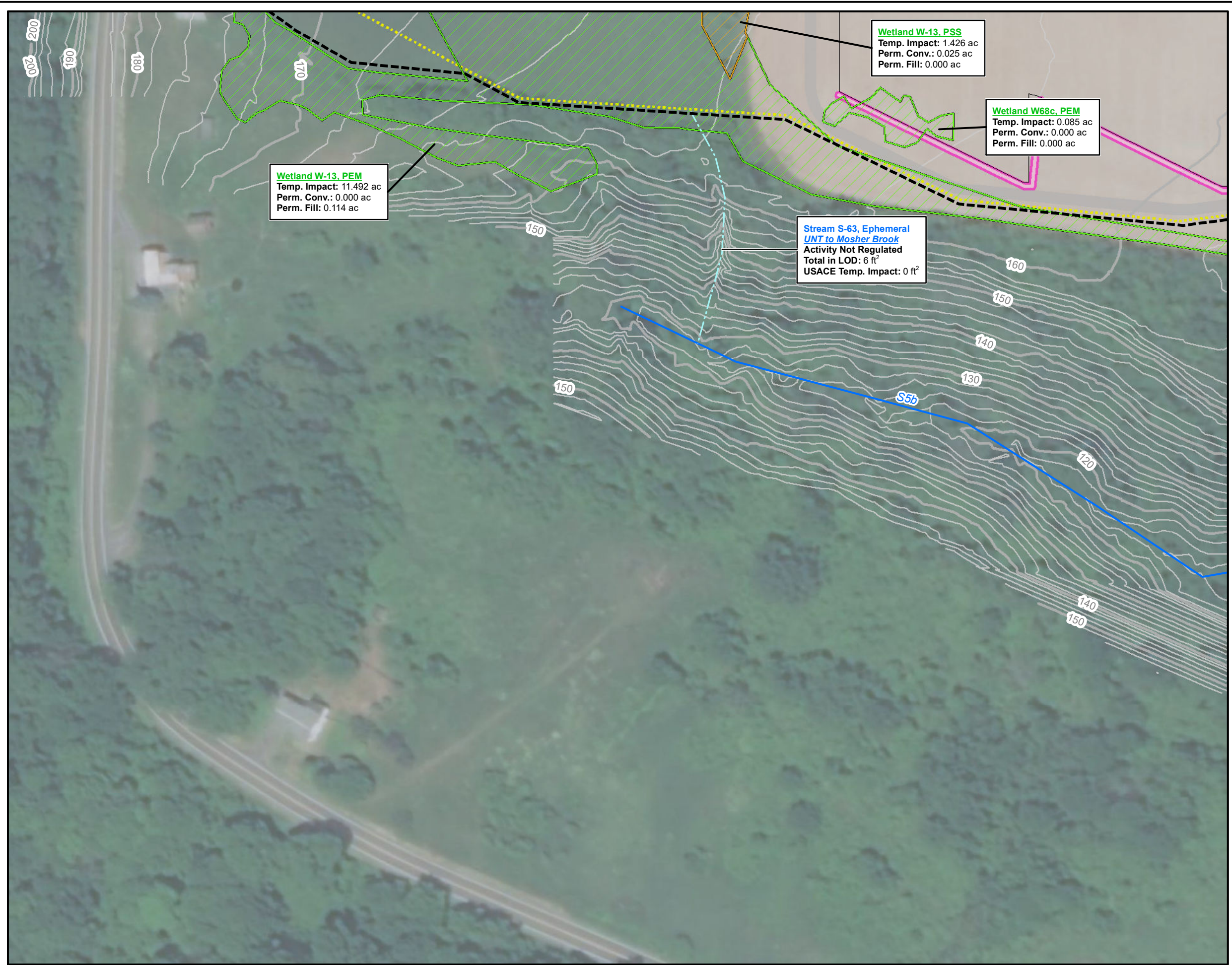
Figure 2. Site Plan Drawings Showing Impacts to Aquatic Resources
Sheet 17 of 19
Coeymans Solar Farm
Albany County, New York

Prepared By: **TETRA TECH** Date: **2/2021**

Source: Esri, et. al., 2014; Tetra Tech, 2016-2020

Coordinate System: NAD 1983 State Plane New York East FIPS 3101 Feet

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Legend

- Limit of Disturbance
- Module Location
- Unpaved and Unimproved Road
- Fence
- Conduit Trenching Area
- Ephemeral Stream
- Perennial Stream
- PEM Wetland
- PSS Wetland

NAN-2019-00439-UDA
Hecate Energy Albany 1, LLC and
Hecate Energy Albany 2, LLC
Drawing 20 of 23

N

0 65 130 260 Feet

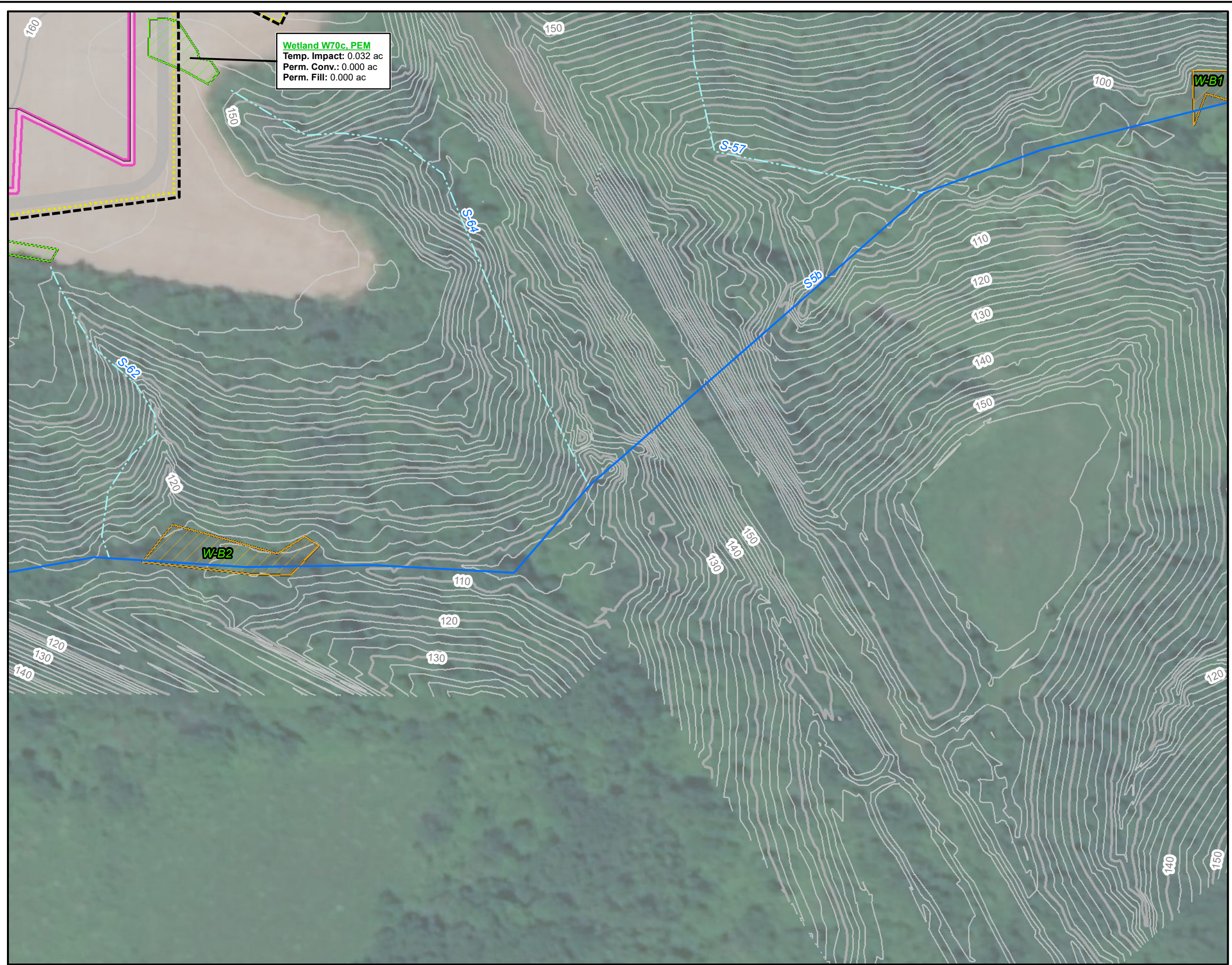
Figure 2. Site Plan Drawings Showing Impacts to Aquatic Resources
Sheet 18 of 19
Coeymans Solar Farm
Albany County, New York

Prepared By:	Date: 2/2021
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Source: Esri, et. al., 2014; Tetra Tech, 2016-2020

Coordinate System: NAD 1983 State Plane New York East FIPS 3101 Feet

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Wetland W70c.PEM
 Temp. Impact: 0.032 ac
 Perm. Conv.: 0.000 ac
 Perm. Fill: 0.000 ac

- Legend**
- Limit of Disturbance
 - Module Location
 - Unpaved and Unimproved Road
 - Fence
 - Conduit Trenching Area
 - Ephemeral Stream
 - Perennial Stream
 - PEM Wetland
 - PSS Wetland

NAN-2019-00439-UDA
 Hecate Energy Albany 1, LLC and
 Hecate Energy Albany 2, LLC
 Drawing 21 of 23

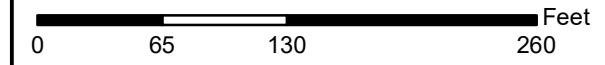
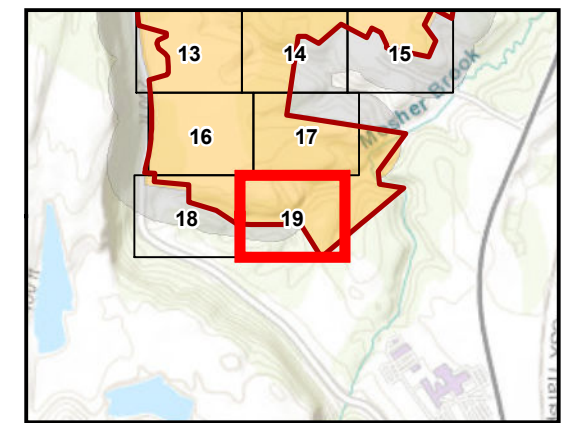


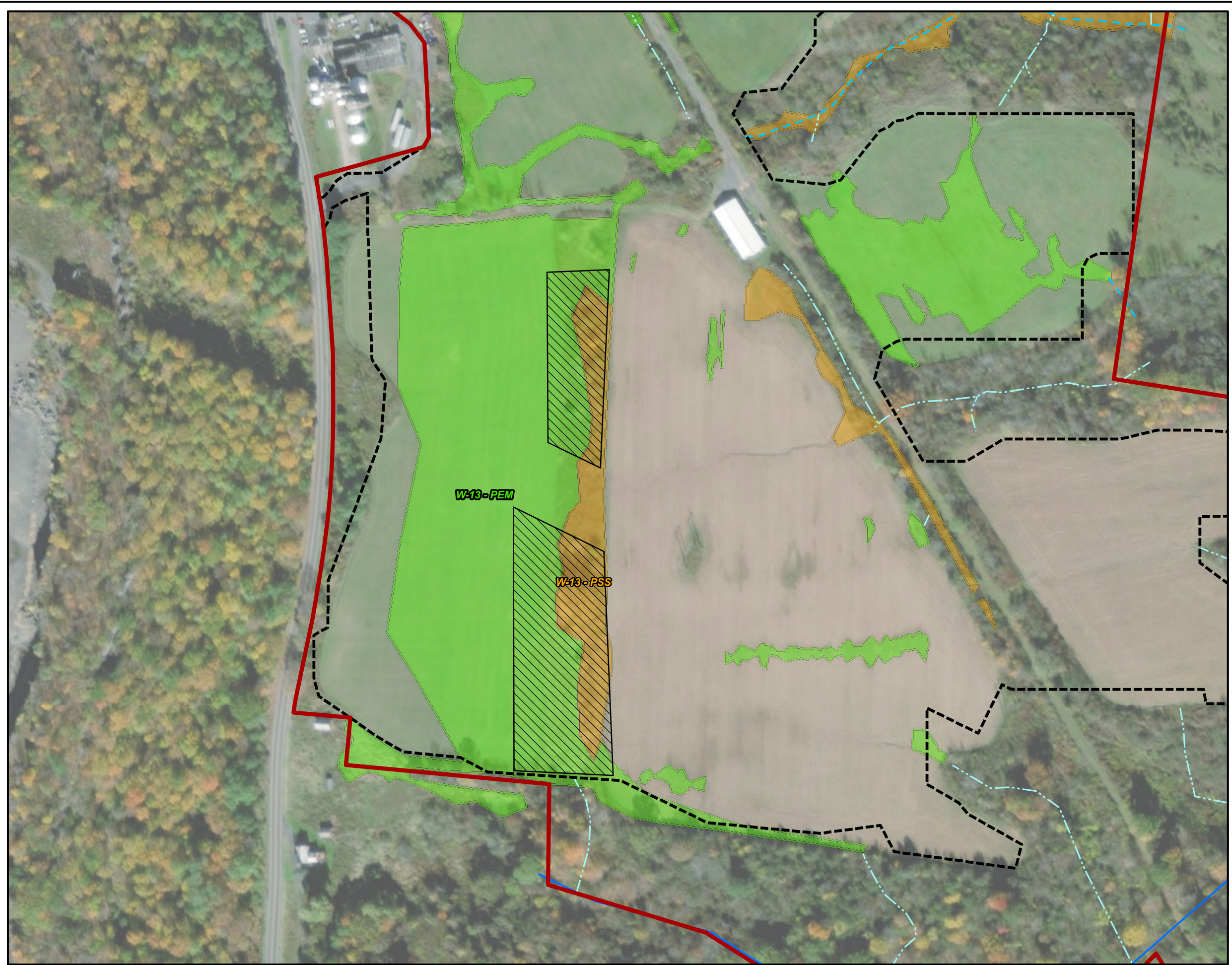
Figure 2. Site Plan Drawings Showing Impacts to Aquatic Resources
 Sheet 19 of 19
 Coeymans Solar Farm
 Albany County, New York

Prepared By:	TETRA TECH	Date:	2/2021
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Source: Esri, et. al., 2014; Tetra Tech, 2016-2020

Coordinate System: NAD 1983 State Plane New York East FIPS 3101 Feet

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Legend

- Facility Area
- Limit of Disturbance
- Ephemeral Stream
- Intermittent Stream
- Perennial Stream
- PEM Wetland
- PSS Wetland
- Wetland Restoration Areas

NAN-2019-00439-UDA
 Hecate Energy Albany 1, LLC and
 Hecate Energy Albany 2, LLC
 Drawing 22 of 23

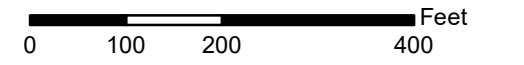
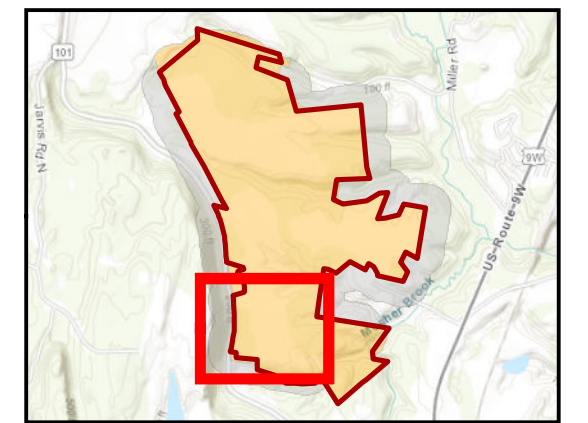


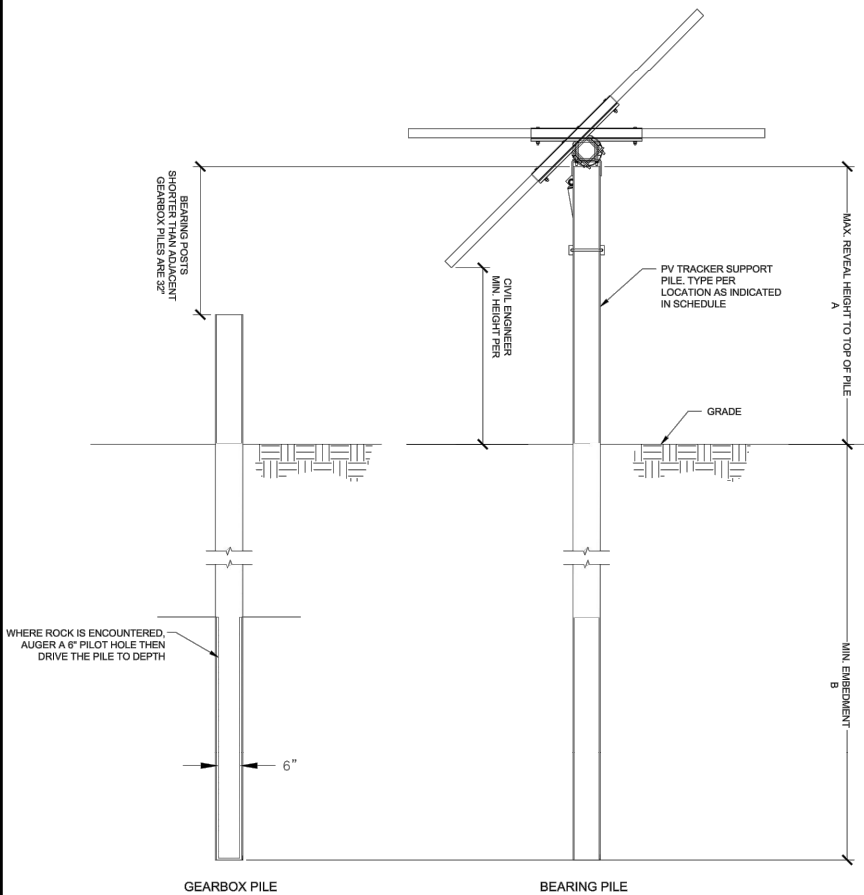
Figure 1.
Proposed Wetland Mitigation

Coeymans Solar Farm
Albany County, New York

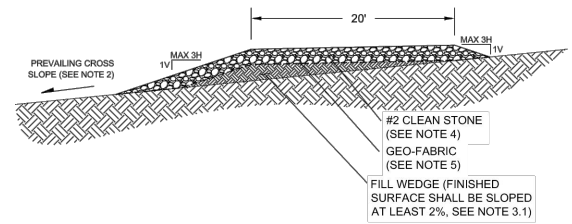
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Source: Esri, et. al., 2014; Tetra Tech, 2016-2020

Coordinate System: NAD 1983 State Plane New York East FIPS 3101 Feet



1 TYPICAL TRACKER FOUNDATION ELEVATION VIEW
Not to Scale



NOTES:

- THIS HAUL ROAD DETAIL IS LIMITED TO CONSTRUCTION AND OCCASIONAL MAINTENANCE TRAFFIC FOR RENEWABLE ENERGY PROJECTS IN NEW YORK STATE.
- DESIGN LIMITATIONS:
 - TOTAL LIFETIME ESAL 10,000
 - CLEAN STONE SHALL BE MINIMUM 8 INCHES THICK.
 - CROSS SLOPE SHALL NOT EXCEED 5%, RUNNING SLOPE SHALL NOT EXCEED 10%.
- CONSTRUCTION SPECIFICATION:
 - IN AREAS OF NO EARTHWORK, THE ROAD SHALL BE INSTALLED ON UNCOMPACTED SURFACE GRADE. ALIGNMENT MAY BE MOWED BUT NOT GRUBBED. WHERE REQUIRED, A NATIVE SOIL FEATHER WEDGE, COMPACTED 80% MDD MAY BE INSTALLED. FEATHER WEDGE SHALL BE SLOPED AT 2% MINIMUM TO SHED WATER.
 - IN AREAS WITH BULK EARTHWORK, THE ROAD SHALL BE INSTALLED ON FINAL GRADE.
 - THE HAUL ROAD SHALL NOT BE CONSTRUCTED ON NYS DOT SUBBASE MATERIAL OR EQUIVALENT.
 - THE HAUL ROAD SHALL BE CONSTRUCTED OF #2 (2 1/2") CLEAN STONE. STONE MAY BE DEPOSITED AND SPREAD BY A TRACKED VEHICLE.
 - GEOFABRIC SHALL BE MIFARI TENCATE RS 280I (OR APPROVED EQUAL)
- CONSTRUCTION AND MAINTENANCE LIMITATIONS:
 - THE #2 CLEAN STONE SHALL NOT BE COMPACTED WITH A VIBRATORY ROLLER, PLATE COMPACTOR, OR OTHER MEANS.
 - TOP DRESS ONLY WITH #2 CLEAN STONE.
 - DO NOT OIL OR WATER BIND, SEALCOAT, OR CHOKE STONE.
 - DO NOT OVERLAY WITH CONCRETE, ASPHALT PAVEMENT, OR ANY MATERIAL THAT WILL CREATE AN IMPERVIOUS SURFACE.

2 NYSDEC PERVIOUS HAUL ROAD CROSS SECTION
Not to Scale

PILE LENGTHS						
TRACKER HEIGHT	COLUMN	LOCATION	PILE TYPE	A	B	OVERALL LENGTH
4' - 6"	Bearing	Interior	W6x7	4' - 6"	7' - 6"	12' - 0"
	Gearbox	Interior	W6x7	1' - 10"	7' - 6"	9' - 4"
	Bearing	Exterior	W6x8.5	4' - 6"	8' - 0"	12' - 6"
	Gearbox	Exterior	W6x8.5	1' - 10"	8' - 0"	9' - 10"
5' - 0"	Bearing	Interior	W6x7	5' - 0"	7' - 6"	12' - 6"
	Gearbox	Interior	W6x7	2' - 4"	7' - 6"	9' - 10"
	Bearing	Exterior	W6x8.5	5' - 0"	8' - 0"	13' - 0"
	Gearbox	Exterior	W6x8.5	2' - 4"	8' - 0"	10' - 4"
5' - 6"	Bearing	Interior	W6x8.5	5' - 6"	7' - 6"	13' - 0"
	Gearbox	Interior	W6x8.5	2' - 10"	7' - 6"	10' - 4"
	Bearing	Exterior	W6x8.5	5' - 6"	8' - 0"	13' - 6"
	Gearbox	Exterior	W6x8.5	2' - 10"	8' - 0"	10' - 10"
6' - 0"	Bearing	Interior	W6x9	6' - 0"	8' - 0"	14' - 0"
	Gearbox	Interior	W6x9	3' - 4"	8' - 0"	11' - 4"
	Bearing	Exterior	W6x9	6' - 0"	8' - 6"	14' - 6"
	Gearbox	Exterior	W6x9	3' - 4"	8' - 6"	11' - 10"
6' - 6"	Bearing	Interior	W6x9	6' - 6"	8' - 0"	14' - 6"
	Gearbox	Interior	W6x9	3' - 10"	8' - 0"	11' - 10"
	Bearing	Exterior	W6x12 or W6x10	6' - 6"	8' - 6"	15' - 0"
	Gearbox	Exterior	W6x12 or W6x10	3' - 10"	8' - 6"	12' - 4"

NOTE: SEISMIC PILES: # PER ROW

3 TYPICAL PILE CONSTRUCTION DETAIL
Not to Scale (FOR INFORMATIONAL PURPOSES ONLY)

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NAN-2019-00439-UDA
Hecate Energy Albany 1, LLC and
Hecate Energy Albany 2, LLC
Drawing 23 of 23

Title COEYMANS SOLAR FARM SITE CIVIL DETAILS				101 Station Drive Suite 130 Westwood, MA 02090 United States T +1 (781) 915-0015 F +1 (781) 915-0001 W www.mottmac.com				
Date 05/03/19	Drawn ARB			Checked JAB	Approved DF	Scale at ANSI A NOT TO SCALE	Drawing Number HCSFA10-P-205	Rev B
						Rev A	Date 01/09/19	ISSUED FOR REVIEW
						Rev	Date	Description