CITY OF DOVER

PLANNING BOARD - AGENDA

Meeting Type: Executive Session
Meeting Location: Council Chambers, City Hall, 288 Central Avenue, Dover NH 03820
Meeting Date: **Tuesday, March 12, 2024**
Meeting Time: **6:00 pm**

The Planning Board will meet in Executive Session to consult with its legal counsel.

NOTE: This meeting is not open to the public per RSA 91-A:2(I)(b), Consultation with legal counsel.

CITY OF DOVER

DOVER PLANNING BOARD – AGENDA

Meeting Type: Regular Meeting
Meeting Location: Council Chambers, City Hall, 288 Central Avenue, Dover, NH 03820
Meeting Date: **Tuesday, March 12, 2024**
Meeting Time: **7:00 pm**

1. **CITIZENS' FORUM**
2. **APPROVAL OF THE PRIOR MINUTES**
   February 27, 2024 Regular Meeting Minutes
3. **OLD BUSINESS**
   A. Discussion of Impact Fees Policy Change.*
4. **NEW BUSINESS**
   A. Consideration and acceptance of an Extension Request for a conditionally approved Subdivision for 59 Tolend Rd, LLC, Assessor's Map E, Lot 65-1, zoned R-20, located at Tolend Rd. (Proposal is for the Planning Board to extend the period of time for conditions to be met prior to plan signing). *(WAIV-2024-0002)
   B. Consideration and acceptance of a Conditional Use Permit for Public Service of New Hampshire, Assessor's Map 24, Lot 133, Map N, Lots 23, 22C-8, and Map K, Lots 4-C and 2, zoned CWD, R-12, located at the Transmission line ROW - Cocheco St to Penny Ln (Proposal is a R169 utility transmission line structure replacement project creating 19,734 s.f. of temporary impact to the Conservation District). *(COND-2023-0063)
   C. Consideration and acceptance of a Conditional Use Permit for Public Service of New Hampshire, Assessor's Map K, Lots 1-A-0, 1-A-1, 1-B-0, Map N, Lots 18-1, 18-OP1, 18-6, and 19-5, zoned R-40, located at Transmission line ROW- McKone Ln to Eagan Dr (Proposal is a R169 utility transmission line structure replacement project creating 742 s.f. of temporary wetland impact and 1,515 s.f. of temporary impact to the Conservation District). *(COND-2023-0064)
   D. Consideration and acceptance of a Conditional Use Permit for Public Service of New Hampshire, Assessor's Map N, Lots 19-A, 19-B, 19-C, Map K, Lots 6-C, 6-E, Map M, Lots 3, 3-A, 3-B, zoned R-40, located at Transmission Line ROW- end of Falcon Dr to Back Rd. (Proposal is a R169 utility transmission line structure replacement project creating 23,279 s.f. of temporary wetland impact and 29,941 s.f. of permanent impact to the wetland buffer). *(COND-2023-0065)
   E. Consideration and acceptance of a Conditional Use Permit for Public Service of New Hampshire, Assessor's Map M, Lots 105, 105-1, 105-2, 100-A, 92-B, 93-B, zoned R-40, located at Transmission Line ROW-245 Back Rd to Cullen Bay Rd (Proposal is a R169 utility transmission line structure replacement project creating 3,188 s.f. of temporary wetland impact). *(COND-2023-0066)
   F. Consideration and acceptance of a Conditional Use Permit for Public Service of New Hampshire, Assessor's Map M, Lots 91-C, 92-A, 92-H, 104, zoned R-40, located at Transmission Line ROW- Cullen Bay Road to Cochecho River. (Proposal is a R169 utility transmission line structure replacement project creating 29,676 s.f. of temporary wetland impact). *(COND-2023-0067)
   G. Consideration and possible vote on posting the proposed Amendments regarding the making of the Technical Review Committee, Chapter 153-6 (Site Plan Regulations). The full text of the amendments is available in the Planning Department & at City of Dover, NH - Official Website located under meeting materials and on the Planning Department page*.
   H. Consideration and possible vote on posting the proposed Amendments regarding the Technical Review Committee definition, Chapter 157-60 (Subdivision Regulations). The full text of the amendments is available in the Planning Department & at City of Dover, NH - Official Website located under meeting materials and on the Planning Department page*.
5. **STAFF COMMENT**
6. **MEMBER COMMENTS**
7. **ADJOURNMENT**

*Indicates that if the application is accepted for discussion, the public hearing will be held the same evening. Note that some hearings will be continued from one meeting to another and some may be postponed. Since this is only a partial description of the proposal and may change, persons with questions or wishing to see the plans are invited to visit the Planning Office, Monday through Thursday from 8:30 am to 5:30 pm and Friday 8:30 am to 4:00 pm or email Dover-Planning@dover.nh.gov. You may also view materials at www.dover.nh.gov. Follow us on Twitter @DoverNHPlanning and find us on Facebook at https://www.facebook.com/DoverNHPlanning. The public is encouraged to leave comments in advance by emailing Dover-Planning@dover.nh.gov, or mailing written comments to Planning Board, Dover City Hall, 288 Central Ave., Dover, NH 03820. Messages must be received no later than 4 p.m. the day of the meeting and should identify the name and Dover address of the person leaving the message or providing the comment.

CITY OF DOVER

DOVER PLANNING BOARD – MINUTES

Meeting Type:	Regular Meeting
Meeting Location:	Council Chambers, City Hall, 288 Central Ave, Dover, NH.
Meeting Date:	**Tuesday, February 27, 2024**
Meeting Time:	**7:00 pm**

Members Present: Gina Cruikshank (Chair), Mark Speidel (Vice Chair), George DeBoer, Kyle Pimental, Fergus Cullen (Councilor), Ken Mavrogeorge, Jeff Sanborn (Alternate)
Members Not Present (excused): Erinn Kaspari, Melina Gambino (Alternate) Tom Clark, Jon Elliard
Members Not Present (un-excused): None
Staff Present: Jackson Kaspari, Resilience Manager

G. Cruikshank called the meeting to order at 7p.m and noted Jeff Sanborn would sit for Erinn Kaspari, and explained the citizens' forum process.

1. CITIZENS' FORUM

Citizens Forum Open
No one spoke
Citizens Forum Closed

2. APPROVAL OF THE PRIOR MINUTES

- February 13, 2024 Regular Meeting Minutes

Motion F. Cullen moved to approve the regular meeting minutes of February 13, 2024 as submitted. Seconded by: J. Sanborn. Vote: U/A

4. NEW BUSINESS

The Vice Chair announced Items 4A &B would be heard together.

A. Consideration and acceptance of a Conditional Use Permit for Gove Environmental Services, Inc., (Owners: David R. Lemieux), Assessor's Map 8, Lot 19, zoned R-20, located at 14 Leighton Road. (Proposal is for a residential redevelopment of the property with approximately 2,887 s.f. of temporary impact and approximately 8,362 s.f of permanent impact to the Conservation District). *(COND-2023-0060)

B. Consideration and acceptance of a Conditional Use Permit for Gove Environmental Services, Inc., (Owners: David R. Lemieux), Assessor's Map 8, Lot 19, zoned R-20, located at 14 Leighton Road. (Proposal construct a new single-family house and cottage further inland creating approximately 1,908 s.f. of temporary impact and approximately 2,067 s.f. of permanent impact to the 50-foot wetlands buffer). *(COND-2023-0061)

J. Kaspari explained that the applicant is proposing to make improvements to their property including building a new single-family house, removing a structure, and other improvements to the property. Due to the location near the Piscataqua River, two Conditional Use Permits are being requested. One for impacts in the Conservation District and one for the wetlands buffer impacts.

The Conservation Commission endorsed both CUPs at their December 11, 2023 meeting.

FX Bruton, of Bruton & Berube represented the application noting the new construction will be in an eco-friendlier position than the existing structures. The new, main house will have an ADU and will be kept at HUD market rates. All abutters are favorable to the proposal. He read one abutter letter of support into the record.

DRAFT

Christian Smith, Beals Assoc. and project engineer gave details of the proposal including: location of the existing structures and nearness to the water, proposed structures moved out of the wetland buffer, mulch berm/silt sock to be used at buffer, landscape plan, porous pavers and pavement, overall reduction in impervious surfaces 25% to 16%.

He addressed questions of the board including proposed pool in the 50' DES setback, DES/Army Corp permit statuses, plans recorded at the registry related to storm water per code.

K. Mavrogeorge proposed a condition of approval related to recording a document noting the inspection and maintenance manual is on file with the City.

Motion: M. Speidel moved to accept the applications and declared no regional impact. Seconded by: G. DeBoer. Vote: U/A

Public hearing opened
No one spoke
Public hearing closed.

STAFF RECOMMENDATION-Conservation District CUP:
The Conservation District ordinances provide for Conditional Use Permits to allow impacts to the Conservation District if standards related to demonstration that the use is essential to the productive use of land, a soil erosion and sedimentation control plan is submitted, state and federal approvals have been applied for, and a written review by the Conservation Commission has been sought.

Staff feels that the applicant considered the criteria and located the replacement structure as upland as possible and as close to the City's sewer easement as allowed. Porous pavers and pavement are proposed reducing the amount of impervious surface on the site currently. A soil and erosion control plan has been submitted, state and federal approvals have been applied for. The applicant received endorsement by the Conservation Commission.

The Planning Department recommends the Planning Board to approve the Conditional Use Permit with the following conditions, as the plans meet the standards outlined:

1. Approval of COND-2023-0061;
2. Copies of the NHDES Wetlands Permit, NHDES Shoreland Permit, USACE General Permit be submitted to the Planning Department and added to the plan set coversheet.

STAFF RECOMMENDATION-Wetlands Buffer CUP:
The Wetlands Protection District ordinance provides for Conditional Use Permits to allow impacts to wetlands and wetland buffers if standards related to demonstration that no practicable alternative exists, impact avoidance was considered, impacts were minimized, and mitigation has been sought.

Staff feels that the applicant considered the criteria and located the replacement structure as upland as possible as close to the City's sewer easement as allowed. Porous pavers and pavement are proposed reducing the amount of impervious surface on the site currently. A soil and erosion control plan has been submitted, state and federal approvals have been applied for. The applicant received endorsement by the Conservation Commission.

The Planning Department recommends the Planning Board to approve the Conditional Use Permit with the following conditions, as the plans meet the standards outlined:

1. Approval of COND-2023-0060;
2. Copies of the NHDES Wetlands Permit, NHDES Shoreland Permit, USACE General Permit be submitted to the Planning Department and added to the plan set coversheet.
3. Recording of the Stormwater Inspections and Maintenance Manual prior to the issuance of a Certificate of Occupancy.

Motion F. Cullen moved to approve the Conservation District Conditional Use Permit with the recommended conditions. Seconded by K. Mavrogeorge. Vote: U/A

Motion F. Cullen moved to approve the Wetlands Buffer Conditional Use Permit with the recommended conditions. Seconded by K. Mavrogeorge. Vote: U/A

5. STAFF COMMENTS

- Director Benton will be presenting the Planning Department's budget request on March 6th.
- TRCs since last meeting:
    - Site Review for Future Automation. LLC (Owners: DIBIDA), Assessor's Map D, Lot 11-8, zoned IT, located at Quality Way. (Proposal is to construct a light manufacturing facility consisting of two buildings 24,000 s.f and 10,000 s.f, each with office space, and associated infrastructure.) (SITE-2024-0002)
    - Site Review for H.J. Stabile & Son, Inc, Assessor's Map 15, Lot 40-A, zoned G, located at Locust Street. (Proposal is to construct a Townhouse Condominium Complex of 22 units with associated parking & drainage. A Conditional Use Permit application would also appear before the Planning Board. (SITE-2023-0015) *This item was previously heard by the Planning Board Technical Review Committee on November 30, 2023.*
- TRCs coming up:
    - Site Review for Stonefield Engineering & Design (Owners: Dover Retail Management, LLC & R W Realty Inc.), Assessor's Map 38, Lots 15-A and 15-B zoned Commercial, located at 1-3 Webb Place and Webb Place. (Proposal is for demolition of current building and constructing a 3,300-sf bank with a drive through ATM, (20) twenty parking spaces. One (1) related Conditional Use Permit application would also appear before the Planning Board. (SITE-2023-0011 & COND-2023-0054) *[This item was previously heard by the Planning Technical Review Committee on November 2, 2023]*
- Student presentations- Friends Forever International
    - Alex Russo, program coordinator explained the focus of the group and gave some history and current practices and statistics.
    - After the meeting the board members will answer any questions the youth members in attendance have

6. MEMBER COMMENTS

- J. Sanborn
    - Asked for follow up about the impact fee discussion from last meeting.
    - J. Kaspari noted staff is working on it and will have information for the next meeting.

- Chair Cruikshank
  - signed plans for: Double Diamond Holdings North, LLC

7. ADJOURNMENT

Motion: G. DeBoer moved to adjourn at 7:27 pm Seconded by K. Mavrogeorge. Vote: U/A

DRAFT

CITY OF DOVER

PLANNING BOARD – IMPACT FEE MEMO

Meeting Date: March 12, 2024

To: Planning Board
From: Donna Benton, AICP
Cc: Staff
Date: March 6, 2024
Re: Impact Fee Discussion

INTENT:
This memo is to provide additional information on the Impact Fee Discussion and Public Hearing.

GOALS:
Provide background of the balancing development costs with impact fees and meeting state statute.

At the February 13, 2024 Planning Board meeting, Board members asked for a draft of a document regarding potential changes to the impact fee policy. That information is in progress and forthcoming but, at this time, City staff recommend additional discussion and information before attempting to map out potential processes.

Staff intends to discuss with the Board that Impact fee authority derives from statute, (See RSA 674:21, I(l) & V) and that to the extent impact fees have been imposed on past projects as a condition of approval, then there is an established process to amend such conditions by applying for a modified approval.

CITY OF DOVER

PLANNING BOARD - STAFF MEMO FILE # WAIV-2024-0002

Application Type:	Extension of Time Request
Applicant(s):	Berry Surveying & Engineering
Owner(s):	59 Tolend Road, LLC
Location:	59 Tolend Road (Tax Map E, Lot 65-1)
Meeting Date:	March 12, 2024

INTENT: The Board previously approved SUBD-2023-0005 and two (2) Conditional Use Permits for the creation of a 27-lot subdivision with two (2) open space areas. Some of the conditions of approval require approval by different state entities and therefore the applicant needs additional time to meet the conditions. The applicant is requesting an extension to meet the conditions of approval.

UNITS PROPOSED: N/A

AGENDA ITEM #: 4-A

ACREAGE: 31.69 acres

ZONING DISTRICT: R-20

EXISTING USE: Vacant

PROPOSED USE: Residential

SURROUNDING USES: Residential

ZBA ACTION: N/A

ATTACHMENTS: Application materials, previous site plan

APPLICATION IS COMPLETE: Yes

REGIONAL IMPACT: No

NOTICES SENT: Abutter notices were sent by certified mail.

PERMITS REQUIRED: NHDES Wetlands, Army Corps. under the CGP, NHDES AoT, NHDES Subdivision, NHDES Shoreland, NHDES DWGB, EPA Notice of Intent & SWPPP, NHB, and DHR

WAIVERS REQUIRED:
Waiver from §157-32.G., Intersection Grade; 3 locations, and Waiver from §157-21.F.(4)., 40' OSS Buffer Red., 1 location

Summary of Request and Background
Chapter 153 allows the Planning Director to extend the 90 days that is typically required for the applicant to submit revised plans and meet the conditions of approval that the Board sets when conditionally approving requests. Any further extension request, must be granted by the Planning Board.

The applicant is seeking its first request for additional time to meet the conditions of approval as set forth in the Board's August 23, 2023 Notice of Decision. The applicant is actively working with NH State officials and the Engineering Dept. to finalize leachfield approvals.

STAFF RECOMMENDATION:
Chapter 153-8.A of the Site Review Regulations of the City Code provides for the Planning Board to extend the time period to address conditions of approval after the Planning Director grants one 90-day extension. Since certain conditions of approval require acceptance from state entities, often which takes significant time for review and approval outside of the Applicant's control, staff therefore recommends the Board grant the extension to May 20, 2024 with the same conditions of approval.

Subsequent Condition to Be Met Prior to Signing of Plans:

1. Add a note to the plat that the Board granted a waiver to Chapter 157-32.G (intersection grade in three locations) and 157-21.F(4) (Open Space Buffer) and that the Board found the criteria of Chapter 157-51.A have been met.

STAFF RECOMMENDATION – Major Subdivision:
The Planning Department recommends that the Planning Board vote to make the necessary and supporting findings of fact, and vote to approve the major subdivision with the following subsequent conditions:

Subsequent Conditions to Be Met Prior to Signing of Plans:

1. CUPs (COND-2023-0051 and COND-2023-0052) are granted.
2. Provide physical and digital copies (including CAD to the satisfaction of the Asset Management Coordinator) of complete plan set for recording at Strafford Country Registry of Deeds, which additionally shall include:
   a. The PE, CWS, and LLS signatures and stamps
   b. The owner's signatures to the final plat submitted for signature to be recorded at the Strafford County Registry of Deeds
   c. Added note that the open space meet the requirements of Section 157-21 including that the subject land may be owned, leased or controlled either by a single person, a corporation or by a group of individuals or corporations. An approved open space subdivision shall be binding on the project land and owner(s) and shall be so indicated on each individual deed.
   d. Provide phasing plan sheet with details on looping water and upgrading Sun Hawk Lane.
   e. Determine surety calculation for Sun Hawk and water line improvements to the satisfaction of the City Engineer.

CITY OF DOVER

PLANNING BOARD - STAFF MEMO FILE # WAIV-2024-0002

Application Type:	Extension of Time Request
Applicant(s):	Berry Surveying & Engineering
Owner(s):	59 Tolend Road, LLC
Location:	59 Tolend Road (Tax Map E, Lot 65-1)
Meeting Date:	March 12, 2024

   f. Final Limited Common Areas lot numbers to be approved by City Assessor.
3. Copies of NHDES Wetlands, Army Corps. under the CGP, NHDES AoT, NHDES Subdivision, NHDES Shoreland, NHDES DWGB, EPA Notice of Intent & SWPPP, NHB, and DHR submitted to the Planning Department and numbers added the plan set as granted.
4. The applicant shall provide homeowners association documents to be reviewed and approved by Planning Director in consultation with the City's General Legal Counsel be recorded at the SCRD which include calculation used to determine reserve amount in the treasury, prior to converting ownership and maintenance obligations, including stormwater, road, septic, open space maintenance/ownership, wetland buffer placards, trail access, and private road requirements.
5. The applicant to provide draft easement documents to the Planning Director to review in consultation with the City Attorney for the conservation easement along river with trail and access along Tolend Road per plan.
6. Provide Assessor with revised land use plan.

Conditions to be Met Prior to Land Disturbance:

7. Existing shed is relocated.
8. Contact NHDOT about their ROW.
9. The wetlands buffer placard shall be placed per the plan.
10. Provide surety or bond for water looping and upgrading Sun Hawk Lane.
11. A pre-construction meeting is held with City staff, engineer of record and the site contractors.
12. Owner to retain site contractor or surveyor to ensure work within buffers is only what was approved via CUPS and shown on plans and that installation of septic systems are 75' from wetlands per plan.

Conditions to be Met Prior to the Issuance of a Building Permit:

13. Meet with Conservation Commission and City Council about conservation easement.
14. The new dwelling units shall be assessed and pay the current water fees in place at the time of application for service.
15. The applicant shall provide a letter of credit or other form of security acceptable to the City for any unfinished work.
16. Pay Land Use Change Tax.

Conditions to be Met Prior to Occupancy:

17. Issuance of a Certificate of Occupancy.
18. Documentation that the HOA has been created and is in place.
19. Impact fees per unit shall be paid per the invoice attached to the Notice of Decision or on the portal.
20. The Engineer of record meet with the HOA to go over operation and maintenance requirements.
21. Conservation easement is recorded at SCRD.

WAIV-2024-0002 Tolend Road

Property Information

Location	TOLEND RD
Owner	59 TOLEND RD LLC
Land Use	
Zoning Code	R-20
Property Id	E0065-001000

MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT

City of Dover, NH makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Geometry updated 10/30/2023
Data updated Daily

Print map scale is approximate. Critical layout or measurement activities should not be done using this resource.

PLAN SNAPSHOT REPORT WAIV-2024-0002
FOR CITY OF DOVER, N.H.

Plan Type:	Waiver / Extension / Amendment	**Project:**		**App Date:**	02/20/2024
Work Class:	Plan	**District:**	None	**Exp Date:**	NOT AVAILABLE
Status:	Fees Due	**Square Feet:**	0.00	**Completed:**	NOT COMPLETED
Valuation:	$0.00	**Assigned To:**	Blonigen, Rachel	**Approval Expire Date:**	

Description: Extension Request - First board requested extension to allow time for state permits. Working with Engineering Department to finalize leachfield approvals

Parcel: E0065-001000 Main	**Address:** Tolend Rd Main Dover, NH	**Zone:** R-20(Residential - Low Density)

Wetlands Scientist
John Hayes III
Home: (603) 205-4396
Business: (603) 205-4396
Mobile: (603) 205-4396

Surveyor
Kenneth Berry
Home: (603) 332-2863
Business: (603) 332-2863
Mobile: (603) 332-2863

Owner
Scott O'Neill
Mobile: (978) 375-3153

Applicant
Berry Surveying & Engineering
335 Second Crown Point Road
Barrington, NH 03825
Business: (603) 332-2863
Mobile: (603) 781-3403

Engineer
Kenneth Berry
Home: (603) 332-2863
Business: (603) 332-2863
Mobile: (603) 332-2863

Plan Custom Fields

Project Location	59 Tolend Road	Waiver Request Type	Extension	Project Name	Rolling Hill Estates
Owner Phone	1-978-375-3153	Owner Name	59 Tolend Road LLC	Original Plan Approval Date	Aug 22 2023 12:00AM
Owner Address	42J Dover Point Road	Owner EMail	office@stonearchcommunities.com	Original Plan End Date	Nov 20 2023 12:00AM
Plan ID Number	SUBD-2023-0005	Plan Type	Subdivision	# Extensions Previously Granted	0
Current Plan End Date	Feb 20 2024 12:00AM	Extension Type Requested	Sec. 157-13.A	Extension Request Detail	Received 1 Planning Extension. Requesting extension to allow for time to obtain state permits. Working with Engineering Department on Leachfield Approvals
Condition / Portion of Plan to be Amended		Amendment Request Detail		Site / Subdivision Portion of Plan to be Waived	
Waiver Request Detail					

Attachment File Name	Added On	Added By	Attachment Group	Notes
Signature_Chris_Berry_2/20/2024.jpg	02/20/2024 7:52	Berry, Chris		Uploaded via CSS
2024.03.12_PlanningBoard.Agenda.pdf	02/21/2024 16:21	Blonigen, Rachel		
4. Abutters List.pdf	02/26/2024 14:17	Blonigen, Rachel		

Invoice No.	Fee	Fee Amount	Amount Paid
INV-00006823	Planning Waiver / Extension /Amend Application Fee	$200.00	$0.00
	Total for Invoice INV-00006823	**$200.00**	**$0.00**
INV-00006917	Planning Creation / Printing of Abutter Labels	$30.00	$0.00
	Planning Certified Mailing to Abutters	$280.00	$0.00
	Planning Certified Mailing to Application Contacts	$20.00	$0.00
	Planning Public Notice in Newspaper	$120.00	$0.00
	Total for Invoice INV-00006917	**$450.00**	**$0.00**

PLAN SNAPSHOT REPORT (WAIV-2024-0002)

	Grand Total for Plan	**$650.00**	**$0.00**

Workflow Step / Action Name	Action Type	Start Date	End Date
Review v.1		02/21/2024 16:22	02/26/2024 14:14
Confirm application complete v.1	Generic Action		02/21/2024 16:22
Technical Review Committee Meeting Agenda v.1	Task		02/26/2024 14:14
Land Use Plan Technical Review v.1	Receive Submittal		02/26/2024 14:14
Technical Review Committee Meeting v.1	Hold Meeting		02/26/2024 14:14
Planning Board v.1		02/26/2024 14:14	
Planning Board Agenda v.1	Task	02/26/2024 14:14	02/26/2024 14:17
Invoice for Notices v.1	Task	02/26/2024 14:16	02/26/2024 14:28
Send Notices v.1	Task	02/26/2024 14:28	
Planner Creates Staff Recommendations v.1	Plan Activity		
Distribute Planning Board Materials v.1	Task		
Planning Board Hearing v.1	Hold Hearing		
Planning Board Decision v.1	Plan Activity		
NOD Sent to Applicant v.1	Create Report		
Final Plan v.1			
Land Use Plan Stamped and Signed v.1	Generic Action		
Recording v.1	Task		
Document Archival v.1	Generic Action		
Internal Notification of Plan Completion v.1	Generic Action		
Building Official Notifies Address v.1	Generic Action		
Pre-Con Meeting v.1	Hold Meeting		
Create/Link to Records v.1			
Create / Link to Permit - Building Major v.1	Create Sub Permit		
Create / Link to Permit - Site Work, Construction v.1	Create Sub Permit		

City of Dover, New Hampshire
APPLICATION FOR EXTENSION OF/ AMENDMENT TO OR WAIVER FOR PLAN/ DRIVEWAY

[Revised August 20, 2020]

Office Use Only Amount Paid: _____ Date/Time Received: _____

APPLICANT INFORMATION

Name of Applicant: Stonearch Development Corp. Telephone #1-978-375-3153

Address of Applicant: 42J Dover Point Road, Dover, NH 03820 E-Mail Office@Stonearchcommunities.com

Project Name: Rolling Hill Estates Project Location: Tolend Road

Planning File Number: SUBD-2023-0005 Date of Original Approval August 22, 2023

File Type: Conditional Use _____ Site Plan Review _____ Subdivision X

EXTENSION INFORMATION (*Note: notification of abutters required for first time extensions under Sec. 153-9.B and Sec. 157-23.B only)*

Extension type requested *(check one)*: ___Sec. 153-8.A ___Sec. 153-9.B ___Sec. 157-13.A _X_Sec. 157-23.B

Current deadline date: 2-20-24_____ Number of Extensions Previously granted by Board __0_____

Reason(s) for extension/comments (*attach additional sheets as needed*): Additional time needed to obtain state permits to satisfy conditions of approval. Still working with Engineering Department to obtain leachfield approval and other conditions.

AMENDMENT INFORMATION

Condition(s) or portion of plan to be amended: _____

Reason(s) for amendment/comments (*attach additional sheets as needed*):_____

_____

_____

WAIVER INFORMATION

Site Review/Subdivision Regulations section(s) to be waived: _____

Justification for waiver request(s) (*attach additional sheets as needed*):_____

_____

_____

SIGNATURES

I/We hereby submit this application to the Planning Board and attest that to the best of my knowledge all of the information on this application form and in the accompanying application materials and documentation is true and accurate. As applicant or as agent, I attest that I am duly authorized to act in this capacity.

Signature of Property Owner: _____ Date: 2-20-24

Signature of Applicant (*if different from owner*): _____ Date: _____

Signature of Agent: _____ Date: 2-20-24

APPLICATION FOR EXTENSION OF/ AMENDMENT TO OR WAIVER FOR PLAN/ DRIVEWAY
LIST OF ABUTTERS

Pursuant to RSA 676:4, the State Law of New Hampshire, the City of Dover is required to notify the applicant, abutters (including holders of conservation easements), and any professional whose seal is on the plan, of the public hearing by certified mail, return receipt requested. Staff will provide the abutter information, while the applicant must provide accurate contact information for the owner, applicant and professional agents representing the project.

Owner:

TAX MAP	LOT #	PROPERTY OWNER	MAILING ADDRESS

Applicant (if different from owner):

APPLICANT NAME	APPLICANT COMPANY	MAILING ADDRESS

Surveyor and/or Engineer/Professional Agent:

NAME	COMPANY	MAILING ADDRESS

Conservation Easement Holder:

TAX MAP	LOT #	NAME OF EASEMENT HOLDER	MAILING ADDRESS

CITY OF DOVER, NEW HAMPSHIRE
PLANNING APPLICATION OWNER AUTHORIZATION

OWNER AUTHORIZATION

I/We hereby submit this application to the City of Dover / City of Dover Planning Board and attest that to the best of my knowledge all of the information on this application form and in the accompanying application materials and documentation is true and accurate. As applicant or as agent, I attest that I am duly authorized to act in this capacity.

Property Owner Name: SO

Signature(s) of Property Owner(s): _____ Date: 2-20-24

Signature of Applicant: _____ Date: 2-20-24
if different from owner

AUTHORIZATION TO ENTER SUBJECT PROPERTY

I/We hereby submit this application to the City of Dover Planning Board and attest that to the best of my knowledge all of the information on this application form and in the accompanying application materials and documentation is true and accurate. As applicant or as agent, I attest that I am duly authorized to act in this capacity..

Property Owner Name: SO

Signature(s) of Property Owner(s): _____ Date: 2-20-24

Signature of Applicant: _____ Date: 2-20-24
if different from owner

IF SIGN PERMIT, SIGN PERMIT APPLICATION INFORMATION

If the sign permit applicant is not the property owner, this form must be completed and included as part of application submission.

I have read this application and state that, to the best of my knowledge, the information provided is true and that the proposed sign(s) will comply with all applicable regulations in Section 170-32 of the Zoning Ordinance of the City of Dover and shall conform to the submitted materials and designs. Furthermore, after 90 days, any application still waiting information will be denied.

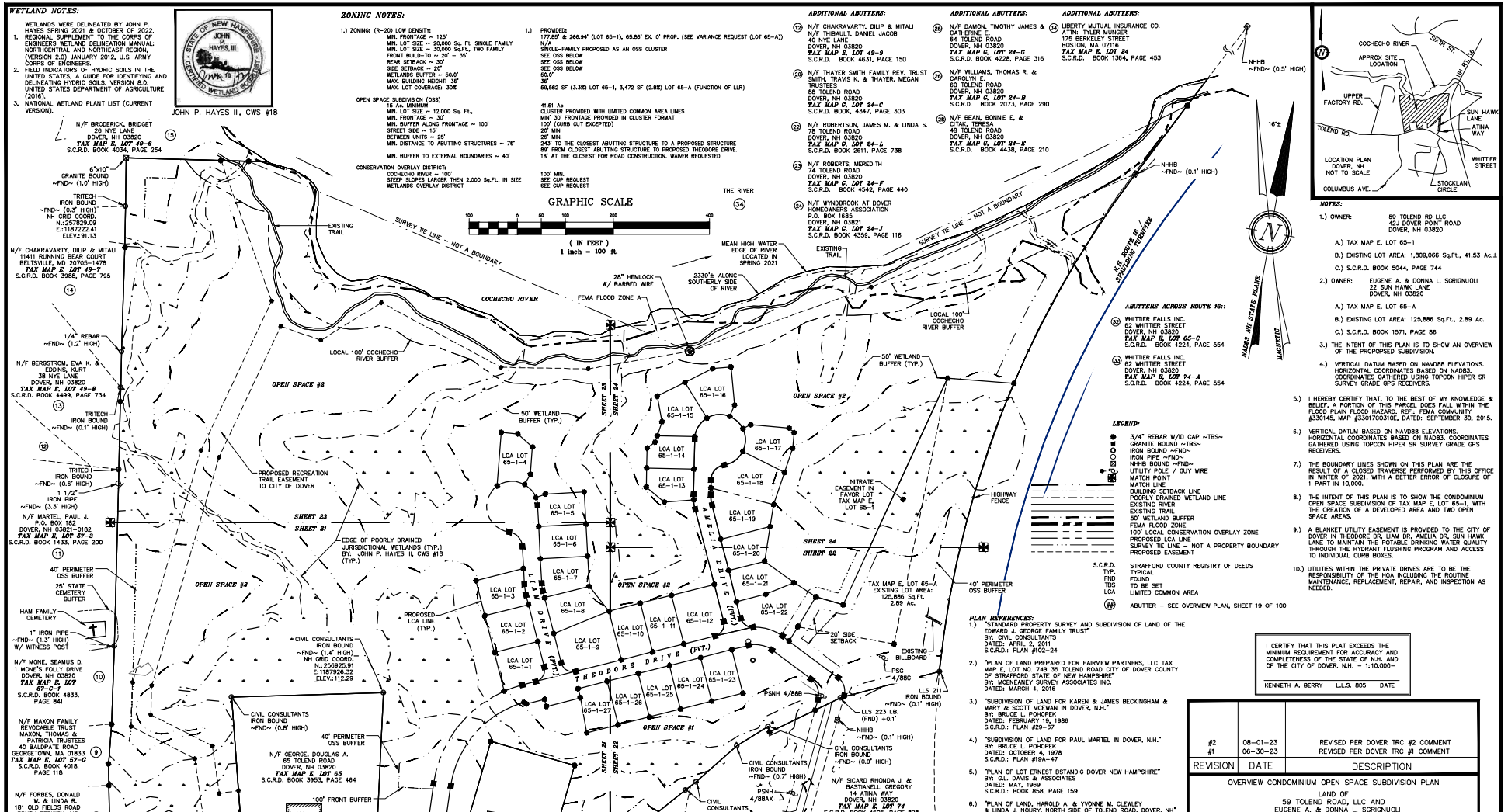
Address of Sign Location: _____

Sign Permit Application Type:
(check one)

- ☐ Permanent Sign
- ☐ Temporary Sign
- ☐ Community Sign

WAIV-2024-0002 **TOLEND ROAD**

Property ID	Location	Owner 1	Owner 2	Owner Address 1	City	State	Zip
E0024-000000	100 LIBERTY WY	LIBERTY MUTUAL INSURANCE CO	ATTN: TYLER MUNGER	175 BERKELEY ST	BOSTON	MA	02116
E0049-005000	22 NYE LN	RICHBURG NORMAN R &	RICHBURG BETSY J	22 NYE LANE	DOVER	NH	03820
E0049-006000	26 NYE LN	BRODERICK BRIDGET		26 NYE LANE	DOVER	NH	03820
E0049-007000	34 NYE LN	CHAKRAVARTY DILIP & MITALI TRUSTEES	DILIP CHAKRAVARTY REVOCABLE TRUST &	6906 SPINNING SEED	COLUMBIA	MD	21045
E0049-008000	38 NYE LN	BERGSTROM EVA K &	EDDINS KURT	38 NYE LANE	DOVER	NH	03820
E0049-009000	40 NYE LN	THIBAULT DANIEL JACOB		40 NYE LANE	DOVER	NH	03820
E0057-003000	3 MONES FOLLY DR	KAEMPF ETHAN	PHILLIPS TAYLOR	3 MONES FOLLY DR	DOVER	NH	03820
E0057-G00000	95 TOLEND RD	95 TOLEND ROAD LLC		24 STOCKLAN CR	DOVER	NH	03820
E0057-G00001	1 MONES FOLLY DR	MONE SEAMUS D		1 MONE'S FOLLY	DOVER	NH	03820
E0064-000000	89 TOLEND RD	FORBES DONALD W &	FORBES LINDA R	181 OLD FIELDS ROAD	SOUTH BERWICK	ME	03908
E0065-000000	65 TOLEND RD	GEORGE DOUGLAS A		65 TOLEND RD	DOVER	NH	03820
E0065-A00000	22 SUN HAWK LN	SGRIGNUOLI EUGENE A	SGRIGNUOLI DONNA L	22 SUN HAWK LN	DOVER	NH	03820
E0065-B00000	53 TOLEND RD	BSTANDIG MARTHA A TRUSTEE	BSTANDIG MARTHA A REVOCABLE TRUST	53 TOLEND RD	DOVER	NH	03820
E0074-000000	14 ATINA WY	SICARD RHONDA J &	BASTIANELLI GREGORY	14 ATINA WAY	DOVER	NH	03820-5824
E0074-B00000	6 SUN HAWK LN	POMEROY CAROLINE S		6 SUN HAWK LN	DOVER	NH	03820-5812
E0074-C00000	10 SUN HAWK LN	FINN CAROL ANNE		10 SUN HAWK LN	DOVER	NH	03820
E0074-D00000	43 TOLEND RD	CLOUGH VERNON L &	CLOUGH OLGA	43 TOLEND RD	DOVER	NH	03820
G0024-A00000	94 TOLEND RD	MILLER JASON S &	MILLER CHRISTINE S	94 TOLEND RD	DOVER	NH	03820-5501
G0024-B00000	60 TOLEND RD	WILLIAMS THOMAS R &	WILLIAMS CAROLYN E	60 TOLEND ROAD	DOVER	NH	03820
G0024-C00000	88 TOLEND RD	HARTMANN MITCHELL JOHN &	WALSH BROOKE BETHANY	88 TOLEND RD	DOVER	NH	03820
G0024-E00000	48 TOLEND RD	BEAN BONNIE E TRUSTEE	THE BONNIE E BEAN REVOCABLE TRUST OF 202	48 TOLEND RD	DOVER	NH	03820
G0024-F00000	74 TOLEND RD	NADEAU EVAN P	NADEAU CARISSA B	74 TOLEND RD	DOVER	NH	03820
G0024-G00000	64 TOLEND RD	DAMON TIMOTHY JAMES &	DAMON CATHERINE E	64 TOLEND RD	DOVER	NH	03820
G0024-H00000	54 TOLEND RD	KEEFE PATRICIA		54 TOLEND ROAD	DOVER	NH	03820
G0024-J00000	TOLEND RD	WYNDBROOK AT DOVER HOMEOWNERS ASSOCIATIO	C/O GREAT NORTH PROPERTY MANAGEMENT	3 HOLLAND WAY SUITE 201	EXETER	NH	03833
G0024-K00001	44 TOLEND RD	GRONE EMILY J	LEMOINE MICHAEL C	44 TOLEND ROAD	DOVER	NH	03820
G0024-L00000	78 TOLEND RD	ROBERTSON JAMES M &	ROBERTSON LINDA S	78 TOLEND RD	DOVER	NH	03820
G0024-M00000	80 TOLEND RD	GERVAIS ANDREW TODD		80 TOLEND RD	DOVER	NH	03820
E0065-001000	TOLEND RD	59 TOLEND RD LLC		42 DOVER POINT RD UNIT J	DOVER	NH	03820
		BERRY SURVEYING & ENGINEERING		335 SECOND CROWN POINT	BARRINGTON	NH	03825



NOT FOR CONSTRUCTION

CITY OF DOVER

PLANNING BOARD - STAFF MEMO FILE #COND-2023-0063

Application Type:	Conditional Use Permit
Applicant(s):	Stantec
Owner(s):	Public Service Company of New Hampshire, d/b/a/Eversource Energy
Location:	Transmission line right of way (ROW)- Cocheco Street to Penny Lane (Tax Map 24, Lot 133, Map N, Lots 23, 22C-8, and Map K, Lots 4-C and 2)
Meeting Date:	March 12, 2024

INTENT: Proposal is to replace a deficient utility structure/pole along the R169 Electric Transmission Line creating 19,734 square feet of temporary impact to the Conservation District.

UNITS PROPOSED: N/A

AGENDA ITEM #: 4-B

ACREAGE: N/A (±19,734 square feet of temporary impacts)

ZONING DISTRICT: CWD, R-12

EXISTING USE: Electrical Transmission line, ROW

PROPOSED USE: Electrical Transmission line, ROW

SURROUNDING USE: Varies, but mostly residential

ZBA ACTION: None

ATTACHMENTS: Application materials including site plan

APPLICATION IS COMPLETE: Yes

REGIONAL IMPACT: No

NOTICES SENT: Abutter notices were sent by certified mail to all abutters for this meeting

PERMITS REQUIRED:
Five (5) City of Dover CUPs

NHDES: Alteration of Terrain; Wetlands Utility Statutory Permit by Notification; Shoreland Permit by Notification USACE Pre-application Construction Notification; USACE Section 408 Variance to Fed. Navigation Project

WAIVERS REQUESTED: None

CONSERVATION COMMISSION: 02/12/2024

TRC: 01/25/2024

Summary of Request and Background
Eversource is proposing to replace two structures (27 and 28) along their existing R169 utility transmission line in Dover. These wooden structures require replacement due to age, cracking, leaning, and/or woodpecker damage. The existing structures will be replaced with new weathering steel structures to provide a more reliable electrical infrastructure. The work pads for both structures proposed occur partially within the Conservation District and partially within the Wetland Protection District for the Cochecho River. In the Wetland District, 5,526 square feet of temporary impact is proposed in the buffer as a result of construction of the two work pads. In the Conservation District, 19,734 of temporary impact is proposed in the buffer as a result of the upland disturbance of the work pads and connecting access road. These areas will require pre-construction installation of erosion/sediment control BMPs and monitoring throughout for effectiveness. The area around the pads and the connecting road will be re-graded and restored with native topsoil spread over disturbed areas and re-seeded.

The Conservation Commission endorsed the application at their February 12, 2024 meeting. (minutes attached)

The Technical Review Committee endorsed the application at their January 25, 2024 meeting.

Consistency with Land Use Regulations – CUP 170.27.C
The Conservation District ordinance §170.27.C provides for Conditional Use Permits to allow impacts to the Conservation District if standards related to demonstration that the use is essential to the productive use of land, a soil erosion and sedimentation control plan is submitted, state and federal approvals have been applied for, and a written review by the Conservation Commission has been sought.

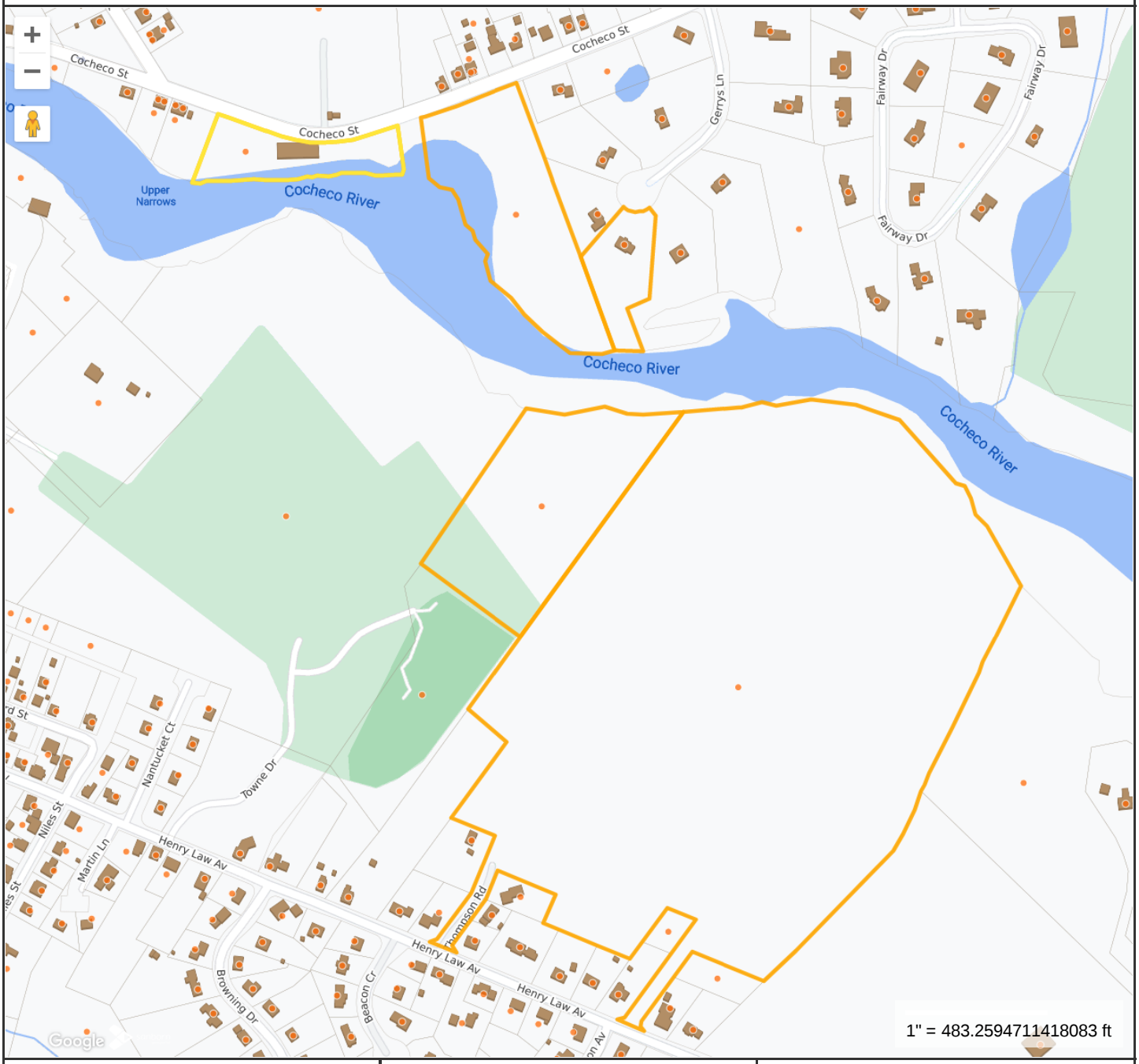
Planning Staff feels that the applicant considered the criteria and has made sufficient efforts to minimize the project's impact, noting that all impact is temporary in nature. In addition, the applicant has taken appropriate measures to mitigate any impacts and has plans in place to restore any areas of disturbance.

STAFF RECOMMENDATION:
The Planning Department recommends that the Planning Board accept the application as complete, note it is not of regional impact, hold a public hearing, make the necessary and supporting findings of fact, and vote to approve the Conditional Use Permit with subsequent conditions:

Subsequent Conditions to Be Met Prior to Issuance of a Conditional Use Permit:

1. Provide copies of NHDES permits and USACE approval.

COND-2023-0063 Transmission ROW- Cocheco Street to Penny Lane



Property Information

Location	75 COCHECO ST
Owner	PUBLIC SERV CO OF N H
Land Use	
Zoning Code	CWD
Property Id	24133-000000

MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT

City of Dover, NH makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Geometry updated 10/30/2023
Data updated Daily

Print map scale is approximate. Critical layout or measurement activities should not be done using this resource.

PERMIT SNAPSHOT REPORT COND-2023-0063
FOR CITY OF DOVER, N.H.

Permit Type	Conditional Use	**Project:**		**App Date:**	12/22/2023
Work Class:	Environmental	**District:**	None	**Exp Date:**	NOT AVAILABLE
Status:	In Review	**Square Feet:**	0.00	**Completed:**	NOT COMPLETED
Valuation:	$0.00	**Assigned To:**	Blonigen, Rachel	**Approval Expire Date:**	

Description: R169 Utility Transmission Line Structure Replacement Project is a 3.5 mile long rebuild of 18 structures within the Right-of-Way. The project involves accessing and building construction pads or placing timber matting over wetlands and sensitive fields on order to complete work.

Parcel: N0023-000000 Main	**Address:** Cocheco St Main Dover, 03820	**Zone:** R-40(Residential - Rural)

Plan Preparer	Applicant	Owner	Project Manager
Andrew W Ackerman 5 Dartmouth Dr Ste 200 Ste 200 Auburn, NH 03032 Business: (603) 877-8198	Andrew W Ackerman 5 Dartmouth Dr Ste 200 Ste 200 Auburn, NH 03032 Business: (603) 877-8198	Travis Yandow Home: (603) 634-2243 Business: (603) 634-2243	Travis Yandow Home: (603) 634-2243 Business: (603) 634-2243

Permit Custom Fields

Select Permit Type	Wetland Protection District
What is the parcel zoned?	R-20

General Purpose	Alteration / Addition
New Change in Impervious/Paved Area (sq ft)	0

Project Zone	Mixed Use
Work	The project involves temporary and minor permanent impacts to Wetland Protection District buffer areas and some temporary impacts to wetlands from timber matting placement during summer/fall months. The Wetland and Conservation District overlaps in some areas of the project and therefore both districts have temporary impacts.

permitstatefed	Alteration of Terrain, Statutory Permit by Notification, Protected Shoreland PBN, USACE Sec. 408 and Pre-Construction Notification (Sec 404).

Attachment File Name	Added On	Added By	Attachment Group	Notes
Permit Snapshot Report.pdf	12/22/2023 17:33	Service, EnerGov		Attached by IO - ATTACH: Initial Permit Snapshot
Signature_Andrew_Ackerman_12/22/2023.jpg	12/22/2023 17:33	Ackerman, Andrew		Uploaded via CSS
2024.01.25_PlanningTechnicalReviewCommittee.Eversource_CUPs.pdf	01/31/2024 16:25	Blonigen, Rachel		Draft TRC Minutes
2024.02.12-ConservationCommission.Minutes.pdf	02/21/2024 16:20	Blonigen, Rachel		ConCom Draft Mins
2024.03.12_PlanningBoard.Agenda.pdf	02/21/2024 16:20	Blonigen, Rachel		
5. Abutter List.pdf	02/26/2024 14:40	Blonigen, Rachel		
2024.01.25_PlanningTechnicalReviewCommittee.Eversource_CUPs.pdf	02/26/2024 14:53	Blonigen, Rachel		Approved TRC Minutes

PERMIT SNAPSHOT REPORT (COND-2023-0063)

Invoice No.	Fee		Fee Amount	Amount Paid
INV-00006271	Planning General Application Fee		$200.00	$200.00
		Total for Invoice INV-00006271	$200.00	$200.00
INV-00006918	Planning Creation / Printing of Abutter Labels		$50.00	$0.00
	Planning Certified Mailing to Abutters		$540.00	$0.00
	Planning Certified Mailing to Application Contacts		$20.00	$0.00
	Planning Public Notice in Newspaper		$120.00	$0.00
		Total for Invoice INV-00006918	$730.00	$0.00
		Grand Total for Permit	**$930.00**	**$200.00**

Workflow Step / Action Name	Action Type	Start Date	End Date
Review v.1		01/02/2024 13:16	01/02/2024 13:19
Confirm application complete v.1	Generic Action		01/02/2024 13:19
Conditional Use Review v.1	Receive Submittal		01/02/2024 13:18
Planning Board v.1		02/20/2024 11:06	
Planning Board Agenda v.1	Task	02/20/2024 11:06	02/26/2024 14:44
Invoice for Notices v.1	Task	02/26/2024 14:43	02/26/2024 14:44
Send Notices v.1	Task	02/26/2024 14:43	
Planner Creates Staff Recommendations v.1	Permit Activity		
Distribute Planning Board Materials v.1	Task		
Planning Board Hearing v.1	Hold Hearing		
Planning Board Decision v.1	Permit Activity		
NOD Sent to Applicant v.1	Create Report		
Issue Permit v.1			
Verify Fees Prior to Permit v.1	Generic Action		
Issue and Review Permit v.1	Generic Action		
Print and Email Permit v.1	Generic Action		
Plans uploaded to Treeno v.1	Generic Action		
Internal Notification of Plan Completion v.1	Generic Action		
Recording v.1	Task		

R169 Structure Replacement Project
Dover, New Hampshire

Conditional Use Permit Application

Part 1 of 5

December 22, 2023

Prepared for:

Public Service Company of New Hampshire d/b/a Eversource Energy
13 Legends Drive
Hooksett, NH 03106

Prepared by:

Stantec Consulting Services Inc.
30 Park Drive
Topsham, ME 04086

City of Dover, New Hampshire
CONDITIONAL USE PERMIT APPLICATION

[Revision Date: October 19, 2020]

Office Use Only	Project #:		Date Received:	
	Amount Paid:		Time Received:	

APPLICANT AND OWNER INFORMATION

Name of Applicant: Public Service Company of NH d/b/a Eversource Energy Telephone # 603-634-2243

Address of Applicant: 13 Legends Drive, Hooksett, NH 03106

E-Mail Address: Travis.Yandow@Eversource.com

Name of Property Owner (if different from applicant): same as above Telephone # same as above

Address of Property Owner: same as above

PROPERTY INFORMATION

Assessor's Map # 830-267 Lot(s) # N0023-000000

Address of Property: Existing R169 transmission line ROW--84 Cocheco St., Dover, NH to 184 Houde Rd., Eliot, ME

Zoning District(s) R-40, R-12, CWD Overlay District(s) Wetland Protection and Conservation

Rural Residential, Medium Density, Residential, Urban Density Multi Residential, Cocheco Waterfront District

Existing Use of Property: Electric transmission line ROW

CONDITIONAL USE PERMIT INFORMATION

Type of Conditional Use Permit (Check All That Apply):

☒ Conservation District	☐ RCM Use Overlay District	☐ Gateway District
☐ Groundwater Protection	☐ Off-Street Parking and Loading	☐ Alternative Treatment Center
☒ Wetland Protection District	☐ Central Business District	☐ Heritage Residential District

Describe Proposed Use or Activity That Requires Conditional Use Permit and Describe Any Impacts:

Impact Area 1/Sheet 1: Eversource is proposing to replace two structures (27 and 28) along their existing R169 utility transmission line in Dover. These wooden structures require replacement due to age, cracking, leaning, and/or woodpecker damage. The existing structures will be replaced with new weathering steel structures to provide a more reliable electrical infrastructure. The work pads for both structures proposed occur partially within the Conservation District and partially within the Wetland Protection District for the Cocheco River. In the Wetland District, 5,526 square feet of temporary impact is proposed in the buffer as a result of construction of the two work pads. In the Conservation District, 19,734 of temporary impact is proposed in the buffer as a result of the upland disturbance of the work pads and connecting access road. These areas will require pre-construction installation of erosion/sediment control BMPs and monitoring throughout for effectiveness. The area around the pads and the connecting road will be re-graded and restored with native topsoil spread over disturbed areas and re-seeded. See attached application narrative and supporting documents for more details.

List Any Associated State or Federal Permits That Have Been or Will Be Applied For and Indicate Their Status: NHDES: Alteration of Terrain; Wetlands Utility Statutory Permit by Notification; Shoreland Permit by Notification; USACE Pre-application Construction Notification; USACE Section 408 Variance to Fed. Navigation Project.

Name of Professional That Prepared Plans: Tom Tetreau, NH Certified Wetland Scientist

Address 30 Park Drive, Topsham, ME 04086 Telephone #: 207-504-7231

Professional License #: 283 E-mail address: tom.tetreau@stantec.com

SIGNATURES

I/We hereby submit this application to the City of Dover Planning Board and attest that to the best of my knowledge all of the information on this application form and in the accompanying application materials and documentation is true and accurate. As applicant or as agent, I attest that I am duly authorized to act in this capacity.

Signature of Property Owner: _____ Date: 12/20/2023

Signature of Applicant (if different from owner): _____ Date: _____

Signature of Agent: _____ Date: 12/20/2023

AUTHORIZATION TO ENTER SUBJECT PROPERTY

I, and my successors, hereby authorize members of the Dover Planning Board, Planning Department and other pertinent City Departments and boards to enter my property for the purpose of evaluating this application, including performing inspections during the application phase, post-approval phase, construction phase and occupancy phase. It is understood that these individuals must use all reasonable care, courtesy, and diligence when on the property.

Signature of Property Owner: _____ Date: 12/20/2023

CITY OF DOVER CONDITIONAL USE
LIST OF ABUTTERS

Pursuant to RSA 676:4, the State Law of New Hampshire, the City of Dover is required to notify the applicant, abutters (including holders of conservation easements), and any professional whose seal is on the plan, of the public hearing by certified mail, return receipt requested. Staff will provide the abutter information, while the applicant must provide accurate contact information for the owner, applicant and professional agents representing the project.

Owner:

TAX MAP	LOT #	PROPERTY OWNER	MAILING ADDRESS
Multiple		Kurt Nelson, Eversource Energy	13 Legends Drive, Hooksett, NH 03106

Applicant (if different from owner):

APPLICANT NAME	APPLICANT COMPANY	MAILING ADDRESS

Surveyor and/or Engineer/Professional Agent:

NAME	COMPANY	MAILING ADDRESS
Tom Tetreau, NH Certified Wetland Scientist	Stantec	30 Park Drive, Topsham, ME 04086

Conservation Easement Holder:

TAX MAP	LOT #	NAME OF EASEMENT HOLDER	MAILING ADDRESS

COND-2023-0063 **Cocheco Street to Penny Lane Transmission Line ROW**

Property ID	Location	Owner 1	Owner 2	Owner Address 1	City	State	Zip
21005-001000	1 BEACON CIRCLE	BRADBURY KAREN R & JOSEPH A KOSTER TRUST	THE BRADBURY-KOSTER FAMILY REVOCABLE TRU	1 BEACON CIRCLE	DOVER	NH	03820
21005-002000	5 BEACON CIRCLE	STEPHAN JONH MATHEW &	STEPHAN ANN CHIH-FANG	5 BEACON CIRCLE	DOVER	NH	03820
21005-009000	6 BEACON CIRCLE	KELLY NICHOLAS K & REBECCA W TRUSTEES	KELLY NICHLOLAS K AND REBECCA W REVOCABL	6 BEACON CIRCLE	DOVER	NH	03820
21005-B00000	167 HENRY LAW AV	MURPHY SHAWNA A		167 HENRY LAW AVE	DOVER	NH	03820
21005-C00000	175 HENRY LAW AV	POLYCHRONIS JOHN A TRUSTEE	POLYCHRONIS JOHN A REVOCABLE TRUST	41 BLUE HILLS DRIVE	ROCHESTER	NH	03839
21005-E00000	169 HENRY LAW AV	KEEFE LIVING TRUST	EDWARD JONES TRUST COMPANY TRUSTEE	PO BOX 31727	ST LOUIS	MO	63166
21005-F00000	177 HENRY LAW AV	PAPAIOUANNOU ATHANASIOS &	PAPAIOUANNOU MARTHA	177 HENRY LAW AVENUE	DOVER	NH	03820-3816
21026-002000	3 PENNY LN	WEBBER DANA M		3 PENNY LN	DOVER	NH	03820
21026-01A000	1 PENNY LN	FRACASSA NORM JR	FRACASSA AMY V	1 PENNY LN	DOVER	NH	03820
21070-000000	179 HENRY LAW AV	KOZLOWSKI RICHARD A		179 HENRY LAW AVENUE	DOVER	NH	03820
21071-000000	181 HENRY LAW AV	DEOLIVEIRA LUCIO	DEOLIVEIRA GRACE	181 HENRY LAW AVENUE	DOVER	NH	03820
21072-000000	28 TENNYSON AV	PETTENGILL ROBERT & MATILDE TRUSTEES	PETTENGILL FAMILY REVOCABLE TRUST	28 TENNYSON AVENUE	DOVER	NH	03820
21074-000000	30 TENNYSON AV	WATTS RICHARD E		30 TENNYSON AVENUE	DOVER	NH	03820
21075-000000	29 TENNYSON AV	MARSHALL CAROL A		29 TENNYSON AV	DOVER	NH	03820
21076-000000	31 TENNYSON AV	SLINGERLAND STEPHEN D &	PAOLA MARY ELLEN	31 TENNYSON AVENUE	DOVER	NH	03820
21077-000000	183 HENRY LAW AV	LACROIX FREDA		183 HENRY LAW AV	DOVER	NH	03820
22042-000000	TOWNE DR	CITY OF DOVER		288 CENTRAL AVE	DOVER	NH	03820
24132-000000	COCHECO ST	PUBLIC SERV CO OF N H		PO BOX 330	MANCHESTER	NH	03105-0330
24134-000000	73 COCHECO ST	TURGEON ROBERT & EVA GEN PART	TURGEON FAMILY LIMITED PARTNER	90 FLOWER DR	BARRINGTON	NH	03825-4327
24135-000000	67 COCHECO ST	MARKER 44 HOLDINGS LLC		130 CENTRAL AV	DOVER	NH	03820
25067-000000	88 COCHECO ST	JONES REMI F & CALLY G TRUSTEES	THE JONES FAMILY TRUST AGREEMENT	88 COCHECO ST	DOVER	NH	03820
25068-000000	92 COCHECO ST	GARAY VICTORIA E & JERRY E		92A COCHECO ST	DOVER	NH	03820
25069-000000	94 96 COCHECO ST	CARLETON KATHERINE M		1 WINTER ST STE 3	ROCHESSTER	NH	03867
25070-000000	98 COCHECO ST	CHRISTENBURY PARKS	CHRISTENBURY SUZANNE	98 COCHECO STREET	DOVER	NH	03820
25071-000000	100 COCHECO ST	HARTRANFT SUSI F &	MYERS STEVEN A	100 COCHECO STREET	DOVER	NH	03820
25072-000000	104 COCHECO ST	MOREAU LINDA D LIFE ESTATE &	LORD BENJAMIN	104 COCHECO STREET	DOVER	NH	03820
25073-000000	106 COCHECO ST	CHENEY DIANE MARIE		106 COCHECO STREET	DOVER	NH	03820
K0001-000000	200 HENRY LAW AV	ROUSSEAU SUSAN J	ROUSSEAU PETER	200 HENRY LAW AVENUE	DOVER	NH	03820
K0001-A00001	MCKONE LN	STATE OF NEW HAMPSHIRE	FISH AND GAME DEPT	11 HAZEN DR	CONCORD	NH	03301
K0002-A00000	170 HENRY LAW AV	CASEY TIMOTHY J	CASEY ELIZABETH M	170 HENRY LAW AVENUE	DOVER	NH	03820
K0002-B00000	178 HENRY LAW AV	LORD ELAINE &	BUNDZA JUANITA LORD	125 HENRY LAW AV	DOVER	NH	03820
K0002-B00001	HENRY LAW AV	LORD ELAINE &	BUNDZA JUANITA LORD	125 HENRY LAW AV	DOVER	NH	03820
K0002-C00000	166 HENRY LAW AV	TREMBLAY SUSAN A		166 HENRY LAW AV	DOVER	NH	03820
K0002-D00000	166 A HENRY LAW AV	KELLOGG EVAN		166 A HENRY LAW AVE	DOVER	NH	03820
K0002-E00000	180 HENRY LAW AV	GOLLEDGE CAROL C	GOLLEDGE GARY A	180 HENRY LAW AVENUE	DOVER	NH	03820
K0002-F00000	168 HENRY LAW AV	WITHAM MATTHEW K		168 HENRY LAW AV	DOVER	NH	03820
K0002-G00000	182 HENRY LAW AV	CROTEAU JEFFREY &	MCDERMOTT CAROL E	182 HENRY LAW AVE	DOVER	NH	03820
K0002-H00000	1 THOMPSON RD	TRUMBO NICOLAS R &	ZANY MICHELLE	1 THOMPSON RD	DOVER	NH	03820
K0002-I00000	2 THOMPSON RD	CARROLL TIMOTHY & MICHAEL MINION TRUSTEE	THE CARROLL-MINION REVOCABLE TRUST	2 THOMPSON RD	DOVER	NH	03820
K0002-J00000	5 THOMPSON RD	PANTELAKOS JOHN R	PANTELAKOS MARY G	PO BOX 194	DOVER	NH	03820-0194
K0002-K00000	174 HENRY LAW AV	TARDIFF CHRISTINE S &	TARDIFF GERRY C	9 BUFORD RD	PEABODY	MA	01960
K0002-M00000	176 HENRY LAW AV	DONAHUE RYAN	DONAHUE AMY	176 HENRY LAW AVENUE	DOVER	NH	03820
K0002-Q00000	HENRY LAW AV	LORD ELAINE &	BUNDZA JUANITA LORD	125 HENRY LAW AV	DOVER	NH	03820
K0003-000000	162 HENRY LAW AV	GAUTHIER NANCY P		162 HENRY LAW AVENUE	DOVER	NH	03820
K0004-B00000	HENRY LAW AV	DOVER YOUTH SOFTBALL LEAGUE		PO BOX 1929	DOVER	NH	03821
N0014-F00000	13 FAIRWAY DR	HALVORSEN TIMOTHY M &	HALVORSEN ANNE C	13 FAIRWAY DR	DOVER	NH	03820
N0014-J00000	15 FAIRWAY DR	URBANI ADAM &	URBANI ZOILA	15 FAIRWAY DR	DOVER	NH	03820
N0014-L00000	11 FAIRWAY DR	HOPKINS FRANCES G TRUSTEE	HOPKINS FRANCES G REV TRUST	130 CENTRAL AVE	DOVER	NH	03820-4042
N0022-A00000	103 COCHECO ST	MILLER MARK D & VAGTS PEGGY TRUSTEES	MILLER MARK AND VAGTS PEGGY REVOCABLE LI	103 COCHECO ST	DOVER	NH	03820
N0022-C00002	5 GERRYS LN	BABER WILLIAM S &	BABER KRISTINE M	5 GERRYS LN	DOVER	NH	03820
N0022-C00003	GERRYS LN	BREEN BETSY H &	HOPKINS KERRY E	7 GERRYS LN	DOVER	NH	03820
N0022-C00004	7 GERRYS LN	BREEN SCOTT M &	BREEN BETSY H	7 GERRYS LN	DOVER	NH	03820
N0022-C00005	6 GERRYS LN	THOMPSON THOMAS A &	THOMPSON PAMELA A	6 GERRY'S LANDING	DOVER	NH	03820
N0022-C00006	9 GERRYS LN	POPE BONNY-ELIZABETH G REV TRUST OF 200	POPE BONNY-ELIZABETH G TRUSTEE	9 GERRY'S LANDING	DOVER	NH	03820
N0022-C00007	8 GERRYS LN	POLIZZO ANN & JAMES R TRUSTEE S	POLIZZO ANN & JAMES R TRUST AGREEMENTS	1351 DUNCAN DR	THE VILLAGES	FL	32162
N0022-C00009	111 COCHECO ST	SYLVESTER PETER J &	SYLVESTER MARIE	113 COCHECO ST	DOVER	NH	03820
24133-000000	75 COCHECO ST	PUBLIC SERV CO OF N H		PO BOX 330	MANCHESTER	NH	03105-0330
K0002-000000	HENRY LAW AV	STATE OF NEW HAMPSHIRE	C/O NH FISH AND GAME	11 HAZEN DR	CONCORD	NH	03301
K0004-C00000	HENRY LAW AV	CITY OF DOVER		288 CENTRAL AV	DOVER	NH	03820
N0022-C00008	10 GERRYS LN	PRUYN ROBERT A TRUSTEE	PRUYN ROBERT A REVOCABLE TRUST	10 GERRYS LN	DOVER	NH	03820
N0023-000000	COCHECO ST	PUBLIC SERV CO OF N H		PO BOX 330	MANCHESTER	NH	03105-0330
		STANTEC	ANDREW ACKERMAN	5 DARTMOUTH DRIVE SUI	AUBURN	NH	03032

Stantec Consulting Services Inc.
30 Park Drive, Topsham ME 04086-1737

December 22, 2023

Project/File: 195602676

Attention: Donna Benton
Planning Director
288 Central Avenue
Dover, NH 03820
d.benton@dover.nh.gov

Reference: Conditional Use Permit Application, Eversource Energy, R169 Structure Replacement Project, Dover, New Hampshire

Dear Ms. Benton and Planning Board Members,

On behalf of the Public Service of New Hampshire d/b/a Eversource Energy (Eversource), Stantec Consulting Services Inc. is filing five Conditional Use Permit (CUP) applications for necessary structure replacements as part of the R169 Structure Replacement Project (Project) in the City of Dover. Eversource has identified 18 existing structures along the existing R169 transmission line right-of-way (ROW) in Dover that require replacement due to deterioration from age, cracking, leaning, rot, and/or woodpecker damage.

Portions of the proposed Project are located within the Conservation District and the Wetlands Protection District, as described in the Dover Zoning Ordinance, Articles 170-27 and 170-27.1, respectively. CUPs may be granted within utility ROWs in the Conservation District in accordance with Article 170-27 Section C (1), and in the Wetlands Protection District in accordance with Article 170-27.1 Section F (1):

> "Article 170-27 Section C (1): *Conditional Use Permits may be granted by the PLANNING BOARD for the following uses within the* ***Conservation District****: (1) STREETs, roads and other access ways and utility rights-of-way, communications equipment, easements, including power lines and pipe lines, if essential to the productive use of land not so zoned and if so located and constructed as to minimize any detrimental impact of such uses upon the wetlands or other environmentally sensitive areas, where it is physically impossible to locate such ways over land not so zoned."*
>
> "Article 170-27.1 Section F (1): *Conditional use approval may be granted by the PLANNING BOARD (RSA 674:21II) after proper public notice and public hearing, for construction within the* ***Wetland Protection District*** *or buffer. Said construction may include but is not limited to, a road or other accessway, utility right-of-way, communication lines, power lines and pipelines, STRUCTUREs, and parking LOTs provided that the proposed construction complies with the following standards [emphasis added.]*

Therefore, Eversource is requesting the CUPs for activities and temporary impacts to wetland buffer areas within the Conservation District and the Wetlands Protection District and has outlined compliance with City of Dover zoning standards in the attached project narrative, which is being submitted in accordance with Articles 170-27 and 170-27.1 of the zoning ordinance. These five CUP applications (one per project map sheet) are being submitted, in total, for approximately 19,734 square feet (0.45 acres) of temporary tidal

Reference: Conditional Use Permit Application, Eversource Energy, R169 Structure Replacement Project

buffer resource impacts (to be restored) and 1,515 square feet (0.03 acres) of temporary stream buffer resource impacts (timber matting) in the Conservation District. In the Wetland Protection District, the following impacts are anticipated: approximately 56,885 square feet (1.31 acres) of temporary wetland impacts (matting), 26,838 square feet (0.62 acres) of temporary impacts within wetland buffers (matting), and 29,941 square feet (0.69 acres) of permanent impacts within upland wetland buffer areas for gravel access road and work pad construction.

The proposed work is for direct “in-kind” replacements of cracked and damaged poles, and no new pole locations are proposed within the R169 ROW in Dover. New structures will be in the same general footprint as existing and do not represent a significant footprint expansion within the Conservation District and the Wetlands Protection District or consist of substantial disturbances beyond those historically created by the transmission line. Disturbed areas will be protected with erosion and sediment control measures, and strategies will be implemented to stabilize and allow for re-vegetation of exposed soils.

This submittal includes a digital copy of each of the five CUP application packages. The filing fee of $1,000 ($200 per application x 5 CUP applications [one per project map sheet]) is included in the online submittal with this application. We understand that the City of Dover will calculate and invoice for abutter and notice fees; therefore, we have assumed these fees will be paid at a later date and have not included them with this application.

Additional state and federal wetland and shoreland permit applications are being prepared and submitted for the Project. Permit approvals will be forwarded to the City of Dover as required and/or requested.

Sincerely,

STANTEC CONSULTING SERVICES INC.

Jess S. Hunt
Senior Associate, Environmental Services
Phone: (603) 557-4662
jessica.hunt@stantec.com

Andrew Ackerman
Senior Environmental Scientist, Environmental Services
Phone: (603-413-7731
andrew.ackerman@stantec.com

Attachment: Conditional Use Permit Applications

cc. Travis Yandow and Kurt Nelson, Eversource

CITY OF DOVER

DOVER CONSERVATION COMMISSION – MINUTES

Meeting Type:	Regular Meeting
Meeting Location:	City Council Conference Room - 288 Central Avenue, Dover, NH
Meeting Date:	Monday, February 12, 2024
Meeting Time:	**5:30 pm**

MEMBERS PRESENT: Bill Hunt (Chair), Steve Fellows (Vice Chair), Kristen Murphy, Amy Kramer Perry
Absent (Excused): Abigail Lyon, Robert Atwood (Secretary), Bruce Batchelder (Alternate), Jake Geddes, Jay Aube
Absent (Unexcused):
STAFF PRESENT: Jackson Kaspari – Resilience Manager
OTHERS PRESENT: Autumn Scott, Jessica Hunt, Andrew Akerman

1. CALL TO ORDER AND ROLL CALL
The meeting was convened at 5:30 PM.

2. ANNUAL NOMINATIONS AND ELECTION OF OFFICERS FOR 2024
Chair, Vice Chair and Secretary positions need to be filled.
S. Fellows noted he is willing to continue as Vice Chair and B. Hunt noted he is willing to continue as Chair. R. Atwood will continue to serve as Secretary.
Vote: 4 in favor of the slate of officers as discussed.

3. CITIZENS' FORUM
None

4. APPROVAL OF THE PRIOR MEETING MINUTES- JANUARY 8, 2024
S. Fellows moved to approve the minutes of January 8th as submitted. A. Kramer Perry seconded.
Vote: 3 yes, 1 abstain

5. OLD BUSINESS:
None

6. NEW BUSINESS:
A. Conditional Use Permit for Public Service of New Hampshire, Assessor's Map 24, Lot 133, Map N, Lots 23, 22C-8, and Map K, Lots 4-C and 2, zoned CWD, R-12, located at the Transmission line ROW - Cocheco Street to Penny Lane. Proposal is a R169 utility transmission line structure replacement project creating 19,734 square feet of temporary impact to the Conservation District.

B. Conditional Use Permit for Public Service of New Hampshire, Assessor's Map K, Lots 1-A-0, 1-A-1, 1-B0, Map N, Lots 18-1, 18-OP1, 18-6, and 19-5, zoned R-40, located at Transmission line ROW-McKone Lane to Eagan Drive. Proposal is a R169 utility transmission line structure replacement project creating 742 square feet of temporary wetland impact and 1,515 square feet of temporary impact to the Conservation District.

C. Conditional Use Permit for Public Service of New Hampshire, Assessor's Map N, Lots 19-A, 19-B, 19-C, Map K, Lots 6-C, 6-E, Map M, Lots 3, 3-A, 3-B, zoned R-40, located at Transmission Line ROW-end of Falcon Drive to Back Road. Proposal is a R169 utility transmission line structure replacement project creating 23,279 square feet of temporary wetland impact and 29,941 square feet of permanent impact to the wetland buffer.

DRAFT

D. Conditional Use Permit for Public Service of New Hampshire, Assessor's Map M, Lots 105, 105-1, 105-2, 100-A, 92-B, 93-B, zoned R-40, located at Transmission Line ROW-245 Back Road to Cullen Bay Road Proposal is a R169 utility transmission line structure replacement project creating 3,188 square feet of temporary wetland impact.

E. Conditional Use Permit for Public Service of New Hampshire, Assessor's Map M, Lots 91-C, 92-A, 92-H, 104, zoned R-40, located at Transmission Line ROW- Cullen Bay Road to Cocheco River. Proposal is a R169 utility transmission line structure replacement project creating 29,676 square feet of temporary wetland impact.

All guests present to make the presentations for PSNH introduced themselves.
The proposals were explained as needing to replace 18 structures and small communications line and shield. The project is about three miles long. They explained the temporary impacts to occur during the construction.
In wetland areas, the old poles will be cut down so as not to further impact. In non-wetland areas the poles will be removed. Permanent impacts to wetland buffers were explained.

J. Kaspari noted that since it is such a large project, it was reviewed by TRC.

S. Fellows moved to endorse the five CUPs for PSNH as presented. A. Kramer Perry seconded.
Vote: 4 in favor

F. Natural Resources Inventory Project Update
The goal of the project is to develop an inventory of Dover's natural resources to be used as a tool for land use boards, staff and public to utilize.
Autumn Scott, Strafford Regional Planning Commission updated and discussed the following with the Commission:

- Maps dispersed and described
  - She asked the members to review these over the next week and let her know any comments
  - This is the map set they will work off of for the NRI
- Timeline review
  - Receive comments from Commission
  - Start drafting the NRI
  - Public workshop to gather input for priorities
    - The group brainstormed places to advertise
  - Draft Survey sent out for review prior to March meeting

DRAFT

G. Conservation and Open Space Chapter Update

J. Kaspari informed the members that we are just getting going on this process but they are making sure both this process and the NRI project work together. He named the members of the Steering Committee. The goal is to have this completed by the fall.

7. REPORT FROM THE CHAIR

A. Review of Correspondence Received from NH Department of Environmental Services

J. Kaspari noted they've received the opportunity to work with DES and split the costs to fix an issue at the pond. He expounded on some options for how to fund the portion Dover will have to cover.

8. OTHER BUSINESS

A. Update from Forest Management Subcommittee

S. Fellows reported on the latest discussion topics

- Discussion with Community Services Director for the Commission to support the continuation of planting street trees
    - Continued discussion about funding for street trees as a trade for Community Services funding the matching pond funds required
    - Suggestion to keep a better record of the Conservation Fund balance minus any funds committed
- Potential pocket forest at Garrison School update

9. ADJOURNMENT

S. Fellows moved to adjourn. K. Murphy seconded. Vote: 4 yes.
The meeting was adjourned at 6:45 PM.

DRAFT

CITY OF DOVER

TECHNICAL REVIEW COMMITTEE MINUTES

Application Type:	Conditional Use Permit
Applicant(s):	Public Service Company of NH d/b/a Eversource Energy
Owner(s):	Public Service Company of NH d/b/a Eversource Energy
Location:	Project locations listed below
Date:	January 25, 2024

INTENT: Proposal is for five (5) Conditional Use Permits (CUPs) for a R169 utility transmission line structure replacement project. In total, the proposed project will create 21,249 square feet of temporary impact to the Conservation District, 56,885 square feet of temporary wetland impact, and 29,941 square feet of permanent impact to the wetland buffer.

UNITS PROPOSED: None.

AGENDA ITEMS #: 1-5

ACREAGE: N/A
(±2.48 acres of impacts)

ZONING DISTRICT: CWD, R-12, R-40, Wetland Protection, and Conservation

EXISTING LAND USE: Electric transmission line ROW

COND-2023-0063: Assessor's Map 24, Lot 133, Map N, Lots 23, 22C-8, and Map K, Lots 4-C and 2
COND-2023-0064: Assessor's Map K, Lots 1-A-0, 1-A-1, 1-B-0, Map N, Lots 18-1, 18-OP1, 18-6, and 19-5
COND-2023-0065: Assessor's Map N, Lots 19-A, 19-B, 19-C, Map K, Lots 6-C, 6-E, Map M, Lots 3, 3-A, 3-B
COND-2023-0066: Assessor's Map M, Lots 105, 105-1, 105-2, 100-A, 92-B, 93-B
COND-2023-0067: Assessor's Map M, Lots 91-C, 92-A, 92-H, 104

PROPOSED LAND USE: Electric transmission line ROW

SURROUNDING LAND USE: Varies but mostly residential

ZBA ACTION: N/A

PERMITS REQUIRED:
Five (5) City of Dover CUPs
NHDES: Alteration of Terrain; Wetlands Utility Statutory Permit by Notification; Shoreland Permit by Notification
USACE Pre-application Construction Notification; USACE Section 408 Variance to Fed. Navigation Project

WAIVERS REQUESTED:
- None at this time

ATTENDANCE:
Donna Benton, Planning
Paul Crouser, Zoning
Marn Speidel, Police
Jim Maxfield, Fire/Inspection Services
Ken Mavrogeorge, Engineering
James Burdin, Business Development
Tom Clark, Planning Board

Others:
Erin Bassegio, Assistant City Planner
Abigail Gilbert, Office of Business Development Intern
Matt Cardin, Eversource Project Manager
Andrew Ackerman, Stantec Project Manager
Jessica Hunt, Stantec
Travis Yandow, Eversource

Approval of minutes from January 4, 2024: J. Burdin moved to approve the January 4, 2024 minutes. Seconded by P. Crouser. Vote: U/A.

PLAN REVIEW:
Planning:
- Fees as applicable
- Work with PD on any traffic control
- Try to do public outreach
- Hours of work?
- Stonewall near McKone isn't a property boundary? Follow state process

Engineering:
- Be aware of any disruptions for planned routes due to the City's Portland Avenue retaining wall project near Cochecho Street.

Police:
- Provide more context to the Cochecho Street access road
- Truck routes over 26K GVWR departing Cocheco Street substation should travel outbound and use Oak Street, not Atlantic Avenue
- Who is the selected contractor?
- Please keep Police Department periodically apprised of schedule when helicopters will be used

Fire/Inspection Services:

- Map Sheet 2 of 5 by McKone, Clarify the Note: permission required for off ROW access.

Business Development:

- None.

Planning Board:

- None.

Next Steps: Submit for Conservation Commission and Planning Board approval.

Pause TRC at: 11:13 am

Conditional Use Permit Application

R169 Structure Replacement Project
Dover, New Hampshire

December 22, 2023

Prepared for:

Public Service Company of New Hampshire d/b/a Eversource Energy
13 Legends Drive
Hooksett, NH 03106

Prepared by:

Stantec Consulting Services Inc.
30 Park Drive
Topsham, ME 04086

Table of Contents

1.0 PROJECT INTRODUCTION AND PURPOSE 1

2.0 EXISTING CONDITONS 2

3.0 PROJECT DESCRIPTION AND PROPOSED CONDITIONS 3
3.1 LINE REBUILD: STRUCTURE REPLACEMENT, CONDUCTOR AND OPGW REPLACEMENT 3
3.2 ACCESS 4
3.2.1 Road Construction 4
3.2.2 Wetland and Upland Temporary Matting 4
3.2.3 Work Pad Construction 5
3.3 CONSTRUCTION SEQUENCE 5
3.4 BEST MANAGEMENT PRACTICES 6
3.4.1 Erosion and Sedimentation Control 6
3.4.2 Invasive Species Control Plan 6
3.4.3 Construction Observation and Post Construction Monitoring 6

4.0 OVERLAY ZONING DISTRICT IMPACTS AND ACTIVITIES 7
4.1 WETLAND PROTECTION DISTRICT 8
4.2 CONSERVATION DISTRICT 11
4.3 IMPACT AREAS 13
4.3.1 Impact Area 1 13
4.3.2 Impact Area 2 14
4.3.3 Impact Area 3 14
4.3.4 Impact Area 4 14
4.3.5 Impact Area 5 14

LIST OF FIGURES

Figure 1 USGS Site Location

R169 – Dover CUP Permit Map Set, Dover, NH

LIST OF APPENDICES

APPENDIX A WETLAND DELINEATION REPORT

1.0 PROJECT INTRODUCTION AND PURPOSE

Public Service Company of New Hampshire d/b/a Eversource Energy (Eversource) owns and maintains the R169 electrical transmission line that passes through Dover, New Hampshire. Eversource has identified 19 existing wooden structures that need to be replaced on the R169 line (18 in Dover, New Hampshire, and 1 in Eliot, Maine) due to age, cracking, leaning, rot, and/or woodpecker damage, which constitutes the proposed R169 Structure Replacement Project (Project). The existing wooden structures will be replaced with new, steel structures that adhere to current safety and electrical codes to provide more reliable electrical infrastructure.

The R169 Line right-of-way (ROW) begins at the Three Rivers Substation in Eliot adjacent to the Piscataqua River and traverses westerly over the river into Dover, then continues westerly through Dover approximately 3 miles for the remainder of the length of the transmission line to the Dover Substation.

Chapter 170 of the local Zoning Ordinance of the City of Dover, New Hampshire, establishes regulations and guides appropriate use of land. The existing utility ROW and proposed structure replacement activities in Dover bisect various city zoning districts, including the Rural Residential (R-40), Medium Density Residential (R-12), and Urban Density Multi Residential (RM-U) zoning districts and the Cocheco Waterfront District (CWD). The ROW and proposed Project activities also intersect two natural resource protection overlay districts—the Conservation District (per Article 170-27) and the Wetland Protection District (per Article 170-27.1). The purpose of these two overlay districts is to avoid and minimize development impacts to, and similarly conserve, local rivers, streams, wetlands, and flood-prone or steep, erosion-prone areas of Dover. The Project has taken into consideration each the objectives of these overlay districts in the development of construction plans and activities around the identified sensitive resources.

The proposed Project activities require a Conditional Use Permit (CUP) from the City of Dover (hereafter, City) Planning Board for those activities that occur within the Conservation District and the Wetland Protection District per the City's Local Zoning Ordinance (as amended, September 2022) and subsequent guidance from the City Planning and Community Development Department. This CUP application presents the applicable information associated with the Project. In addition to the 18 proposed replacement structures in Dover, Eversource previously identified five utility structures for replacement along the R169 line. A CUP application (#406-22) for the replacement of those five structures was submitted to the City in July 2022 and approved by the Planning Board on July 21, 2022. Replacement of those five structures has been completed.

In accordance with NH RSA 482-A:3 XV, routine utility maintenance work is exempt from the standard NH wetland permit process. However, Eversource is required to submit a Utility Maintenance Activity Statutory Permit-by-Notification, Shoreland Permit-by-Notification, and Alteration of Terrain permit application to the New Hampshire Department of Environmental Services (NHDES) to cover the temporary wetland impact associated with use of timber matting within wetlands required to

complete the proposed structure replacement work, impacts within the developed portions of the Protected Shoreland of the Cocheco River, and proposed upland ground disturbance.

2.0 EXISTING CONDITONS

The existing cleared R169 ROW varies from approximately 100 feet (ft) in most areas to 250 ft wide where the ROW is shared with additional transmission lines near the Piscataqua River. The Project ROW consists of Eversource fee-owned property or Eversource-controlled easements. From the Piscataqua River to the Dover Substation, the ROW traverses westerly through forested, residential, and agricultural landscapes. The ROW primarily crosses rural areas and local roads, as well as the Cocheco River and the Piscataqua River. The topography varies from flat lowlands and fields to undulating hills and steep side slopes. Elevations range from 0 to 90 ft above mean sea level. Soils within the ROW consist primarily of loam and silty loam (see attached CUP plans).

The open upland natural communities in the ROW consist of early successional shrub, sapling, and herbaceous species. Characteristic woody vegetation includes gray birch (*Betula populifolia*), quaking aspen (*Populus tremuloides*), red maple (*Acer rubrum*), sheep-laurel (*Kalmia angustifolia*), late lowbush blueberry (*Vaccinium angustifolium*), white meadowsweet (*Spiraea alba*), Allegheny blackberry (*Rubus allegheniensis*), American hazelnut (*Corylus americana*), red oak (*Quercus rubra*), and red raspberry (*Rubus idaeus*). Commonly observed herbaceous vegetation in the ROW includes little Canada mayflower (*Maianthemum canadense*), wrinkle-leaf goldenrod (*Solidago rugosa*), Canada goldenrod (*Solidago canadensis*), bracken fern (*Pteridium aquilinum*), hay-scented fern (*Dennstaedtia punctilobula*), wild strawberry (*Fragaria virginiana*), bristly dewberry (*Rubus hispidus*), Kentucky blue grass (*Poa pratensis*), and other common grass and wildflower species. Non-native invasive species such as rambler rose (*Rosa multiflora*), Japanese barberry (*Berberis thunbergii*), Morrow's honeysuckle (*Lonicera morrowii*), and glossy false buckthorn (*Frangula alnus*) are present in moderate abundance.

Stantec consulted with the New Hampshire Natural Heritage Bureau, the New Hampshire Fish and Game Department, and the US Fish and Wildlife Service as required for NHDES and US Army Corps of Engineers (USACE) permitting. There were three state-listed wildlife species, three state-listed plant species, and three federally listed wildlife species noted in the vicinity of the Project. Eversource proposes to follow agency recommendations and permit conditions as part of this Project and will conduct recommended surveys as needed.

One potential vernal pool and 23 wetlands were identified within the ROW during a delineation conducted by Stantec (Tom Tetreau, New Hampshire Certified Wetland Scientist #283) in June 2023; results of the wetland survey can be found in Appendix A.

The 307 transmission line ROW intersects the R169 ROW from the south near proposed structure 6 to the Piscataqua River; the nearby 307 line ROW will be utilized for access only. Existing access roads traverse portions of both ROWs. These access roads are unpaved with mostly a loamy sand base with occasional stretches consisting of previously installed stone. The access roads are generally 8 to 12 ft wide in most areas.

Routine vegetation maintenance is performed along the R169 ROW on an approximate 4- to 5-year cycle. The last vegetation maintenance was performed along portions of the R169 ROW in summer 2023. Trees and shrubs capable of growing to heights that could interfere with conductors are trimmed and allowed to regenerate until the next maintenance cycle. Prior to the start of construction, areas around proposed access roads and pads will need additional mowing within the ROW.

3.0 PROJECT DESCRIPTION AND PROPOSED CONDITIONS

3.1 LINE REBUILD: STRUCTURE REPLACEMENT, CONDUCTOR AND OPGW REPLACEMENT

The proposed Project includes replacement of 18 existing wooden transmission line structures along the R169 line in Dover. The replacement (new) structures will be within 10 ft of the previous structure location, with two exceptions: proposed structure 13 will be approximately 140 ft from the existing structure location to avoid wetland and impacts, and proposed structure 20 will be approximately 40 ft from the existing location. A majority of the new structures will be approximately 5 to 10 ft taller than the previous structures to comply with current electrical standards. The one structure proposed for a reduction in height is structure 27, within the shoreland of the Cocheco River, which will be reduced from the current 135 ft to 120 ft. The shorter structure allows for a reduced construction footprint and minimizes potential impacts to the sensitive shoreland area.

The structure replacement process consists of drilling holes near the existing structures and installing a caisson, also referred to as a can, below the ground surface. The new structure is installed in the can and backfilled with clean, suitable rock or gravel material. Spoils produced from drilling the hole will be disposed of in an approved upland location away from wetland areas and will be stabilized with an appropriate conservation/contractor's seed mix and weed-free straw mulch. Some replacement structures may require anchors. Anchors will be installed by excavating trenches, installing concrete block anchors, and backfilling trenches. If soil conditions allow, screw anchors may be installed to minimize ground disturbance. Temporary swamp mats (i.e., matting) will be utilized to access structures located within delineated wetlands or wetland areas that must be crossed for access. Mats will also be used on some occasions to minimize impacts to maintained yards or farmed upland areas. Once the new structure is installed and stable, the wires from the old structure will be transferred to the new structure. Old structures will be cut and removed from the ground in upland locations. To minimize ground disturbance, old structures in wetlands are typically cut flush with the ground surface. In some cases, the bottom of the old structure may be able to be pulled from the wetland with minimal disturbance to the wetland. All construction materials and old structure pieces will be removed and disposed of off-site at an approved disposal facility.

Following completion of the structure replacement and wire work, temporary timber construction mats will be removed. Disturbed wetland areas will be restored and stabilized with weed-free straw mulch. Temporarily disturbed upland areas will also be restored and stabilized through seeding and mulching. Permanently disturbed wetland buffer areas will remain as permanent features. Seed and mulch will be

applied along the shoulders and side slopes of the access roads as necessary and the established access roads will be left in place, with the exception of the area around proposed structures 27 and 28, which will be entirely restored. The work pads and new access road between proposed structures 27 and 28 will be re-contoured to the existing grade, covered with topsoil that was stockpiled during the initial grading, and stabilized with seed and mulch.

Minor tree clearing is proposed as maintenance within the existing access road off Cocheco Street and within the existing ROW near proposed structures 27 and 28 as part of the Project. The Project will submit a Protected Shoreland Permit by Notification to address proposed selectively cut trees in the upland shoreland areas.

3.2 ACCESS

The proposed Project utilizes existing access roads within the R169 line ROW and existing access within the 307 line ROW wherever possible. The majority of the existing access roads are made up of dirt or gravel areas and are proposed to be improved, as necessary, through the addition of clean stone as part of the Project to allow for construction vehicle access. Proposed access roads are shown on the attached map set. Access road entrances are located off local roadways and utilize existing entrances wherever possible. Driveways permits are not anticipated to be required from the City. There are no state-owned roads in the project area; therefore, temporary driveway permits from the New Hampshire Department of Transportation will not be required for construction. The proposed access roads were sited to minimize ground disturbance and temporary wetland impacts to the greatest extent practicable while providing safe and efficient access to the existing structures. Timber matting will be used to cross all wetland and stream resources that cannot be avoided completely.

3.2.1 Road Construction

Proposed upland access road improvements include construction of approximately 12- to 16-ft-wide gravel and stone roads within the ROW and in some cases adjacent to the ROW. The roads will provide access to existing utility structures for replacement activities. The improved access roads will provide reliable, permanent access to utility infrastructure during future maintenance or emergency repairs. Where possible, the proposed access roads will be located on top of existing dirt roads or trails. If no existing routes are available or suitable, a new road will be constructed. Minor grading may be necessary to remove large boulders and create a flat surface for the new rock or gravel.

Project plans require tree removal along the widening the existing access road off Cocheco Street to proposed structures 27 and 28 to a width of 12 ft to accommodate equipment for the structure replacements. Tree removal at this location will occur within the existing utility ROW and along the existing access road on Eversource property and will be conducted between November 1 and April 14 to avoid potential impacts to federally listed wildlife species if present.

3.2.2 Wetland and Upland Temporary Matting

Access through maintained fields and private property within uplands and delineated wetlands in the Project area will utilize temporary timber construction mats to minimize ground disturbance and prevent

rutting. Where necessary in overly saturated conditions, runners (mats placed parallel to the direction of travel) will be placed on the wetland surface prior to setting the top, perpendicular layer of mats. This will help reduce settling and overall wetland disturbance.

3.2.3 Work Pad Construction

The proposed Project includes construction of 18 structure replacement work pads approximately 100 ft by 100 ft each, with some exceptions. With the exception of work pads located within wetlands, upland work pads will be constructed using clean stone. The work pads will be top dressed with compacted 1.5- to 3-inch-diameter clean stone. After the structure replacement work is complete, restoration of upland work pads will consist of utilizing stockpiled topsoil to reduce work pads to approximately 30 ft by 60 ft. Restored areas will be stabilized with seed and mulch. Proposed work pads located in wetland areas will be constructed using temporary timber construction mats and will be removed upon completion of the work.

3.3 CONSTRUCTION SEQUENCE

The general Project construction sequence will be:

1. Installation of appropriate signage along public roads near construction entrances;
2. Installation of erosion control devices, as needed;
    a. Erosion control practices will follow the *Best Management Practices Manual for Utility Maintenance in and Adjacent to Wetland and Waterbodies in New Hampshire* (Utility BMP Manual) published by the New Hampshire Department of Natural and Cultural Resources (March 2019).
3. Placement of construction mats in wetlands for access roads and work pads;
4. Grading and improvements of upland access roads and work pads;
5. Stabilization (seed and mulch) of exposed soils on created side slopes;
6. Replacement of structures:
    a. Drill new structure holes;
    b. Install new poles and structure components;
    c. Transfer electrical lines from old structure to new structure; and
    d. Remove and haul away old structure.
7. Clean up excess/stockpiled material at work pads;
8. Smoothing/grading upland work pads and stabilizing and restoring with seed and mulch as necessary;
9. Removing construction mats from wetland areas and stabilizing/restoring disturbed wetland areas with weed-free straw mulch; and

10. Stabilization, restoration, and clean up staging areas and entrance points.

Provided necessary permits are in place and to the extent possible, work would begin in April 2024 and continue through fall 2024. Entrances, access roads, and work pads will be created prior to structure replacement work. New structure holes will likely be drilled prior to mobilization of structure replacement equipment (cranes, bucket trucks). Installing new poles and transferring wires will be completed prior to moving on to the next structure. Multiple structure replacement crews may be working in different areas to expedite the process. Removal of mats and restoration will occur as individual work areas are completed.

3.4 BEST MANAGEMENT PRACTICES

3.4.1 Erosion and Sedimentation Control

Work will be conducted in accordance with the Utility BMP Manual. Following these BMPs will minimize and avoid impacts to wetland and stream resources and the surrounding upland areas to the greatest extent practicable.

Perimeter erosion controls consisting of silt fence, straw wattles, mulch, and straw bales will be installed as necessary around the work areas to minimize potential impacts to adjacent resource areas. Water bars, also known as diversion ditches, will be installed along access roads with steep slopes, where necessary, to prevent water from traveling long distances down the road causing erosion. Water bars will direct water off the road into adjacent upland areas. Exposed soil created during construction will be stabilized with seed and mulch as soon as possible after active work in the area is complete. No equipment or material will be stored within wetland areas.

3.4.2 Invasive Species Control Plan

Due to the developed landscape surrounding the majority of the R169 line, invasive plant species occur within the ROW and were observed during field surveys. Contractors will follow the invasive species recommendations in the Utility BMP Manual to help prevent the spread of invasive species, including inspection and cleaning of equipment and contractor training. Equipment, including construction mats, brought to the Project area will be inspected by the contractor and/or environmental monitor, and if plant material or soil is present, the equipment will be cleaned and dried prior to use on the Project. Contractors will be familiar with identification of common invasive species and will be required to clean mats and equipment prior to their use elsewhere. If possible and without increasing wetland impacts, the contractors may also make slight shifts in access roads or work pads to avoid invasive species locations.

3.4.3 Construction Observation and Post Construction Monitoring

During construction, Eversource will contract an environmental monitor to perform routine construction observation visits. The environmental monitor will inspect the Project area for compliance with the Utility BMP Manual and applicable Project permits and conditions. Construction observation visits will occur at least once per week and/or after a significant rainfall (0.5 inches or greater) or snow melt event. Under the National Pollutant Discharge Elimination System, Eversource will file a Notice of Intent and

Stormwater Pollution Prevention Plan (SWPPP) under the U.S. Environmental Protection Agency's Construction General Permit. Construction observation visits and associated reporting will follow the SWPPP and Construction General Permit guidelines and be performed by a qualified individual familiar with the SWPPP, Utility BMP Manual, and Project specific permit conditions.

A series of post-construction monitoring visits in the Project area will be performed by a qualified environmental scientist to document that disturbed areas are properly stabilized and vegetation is beginning to regrow. Site restoration will be considered successful when there is at least 85% cover by native or non-invasive herbaceous plant species within the restored portions of the ROW, including restored wetland areas. This does not include gravel work pads or access roads that existed prior to construction or were created during construction, with the exception of the gravel work pads and road for proposed structures 27 and 28, which will be restored to natural grade, topsoil spread, and stabilized with seed and mulch. The environmental scientist will prepare a report following each post-construction monitoring visit that includes representative photographs and corrective actions (if applicable). Once the disturbed uplands and temporarily impacted wetlands within the Project area are determined to be permanently stabilized, post-construction monitoring will be considered complete, and a Notice of Termination will be filed under the U.S. Environmental Protection Agency's Construction General Permit.

4.0 OVERLAY ZONING DISTRICT IMPACTS AND ACTIVITIES

The ROW and proposed Project activities intersect natural resource protection overlay districts in Dover, including the Conservation District and the Wetland Protection District. The following summarizes the Project-specific components in the respective overlay districts.

Proposed temporary impacts to wetlands were minimized to the maximum extent practical during project planning. This included modifications to ROW access, reducing the size and positioning of the proposed utility poles, the utilization of timber matting and/or tracked equipment, and the location and orientation of work pads. Timber matting will be installed to completely span streams, where necessary, to avoid impacts to the stream bed and banks.

For the purposes of this CUP, resource impacts have been divided into 5 Impact Areas and corresponding map sheets, as shown per wetland and stream in the attached map set and in Table 1. Given the overlapping overlay districts and associated buffers, impacts were quantified in Table 1 below by direct resource impact and overlay district buffer impacts. The district buffers were established by taking the farthest buffer (such as when a stream channel is encompassed by a surrounding wetland, the larger Conservation District buffer was used).

Table 1: City of Dover Proposed Wetland Protection and Conservation District Impacts

District	Resource Impacts (SF)	Impact Area 1 (Map Sheet 1)	Impact Area 2 (Map Sheet 2)	Impact Area 3 (Map Sheet 3)	Impact Area 4 (Map Sheet 4)	Impact Area 5 (Map Sheet 5)
Wetland Protection District	Temporary Wetland Impact	-	742	23,279	3,188	29,676
	Temporary Wetland Buffer Impact	5,526	1,802	16,716	1,852	942
	Permanent Wetl and Buffer Impact*	-	-	29,941	-	-
Conservation District	Temporary Area Subject to Tidal Action Buffer Impact	19,734	-	-	-	-
	Temporary Stream Resource Buffer Impact	-	1,515	-	-	-
Overlapping Districts		5,526	773	-	-	-
	Total	**25,260**	**4,059**	**69,936**	**5,040**	**30,618**

*Based on 12-ft disturbance area for new gravel access
Overlapping Districts are illustrative of how much districts overlap and not part of total for each Map Sheet.

4.1 WETLAND PROTECTION DISTRICT

The Wetland Protection District includes all areas of wetlands and 50-ft wetland buffers, as defined in Dover Zoning Ordinance, Article 170-27.1. Project activities subject to a CUP that are within the Wetland Protection District are limited to temporary placement of timber mats in wetlands and at stream crossings and the creation of stone work pads and access road improvements in wetland buffer areas. New structures will be placed in the same general location as the existing structures, as described in section 3.1 above. The proposed access roads were sited along existing roads or trails wherever possible.

The Project will meet the following Wetland Protection District standards for Conditional Use Approval, as outlined in the Dover Zoning Ordinance, Article 170-27.1F(1).

(a) *Practicable Alternative: There is no practicable alternative that would have a less adverse impact on the area.*

The Project site is an existing transmission line within a utility ROW. The proposed structure replacement work is necessary to maintain reliability and safe operation of the existing R169 line. Alternative locations would require creation of a new ROW, and increased impacts to resources and the surrounding landscape and were not considered. The replacement structures must be located on the alignment of the existing transmission line and must be located within the existing ROW. The Project has been designed to reduce the footprint of the construction as much as

possible. For example, the proposed access route between structures 14 and 15 was designed to utilize a narrow upland area on the south side of the ROW to minimize wetland impacts as much as possible while maintaining required clearances for working equipment from overhead wires and adjacent tree lines. For example, in addition to reducing the height and footprint of proposed structure 27 near the Cocheco River, the Project proposes to move access roads to uplands where possible, completely restore impacted areas adjacent to the Cocheco River, smooth/grade upland work pads, and stabilize and restore with seed and mulch as necessary.

Upland work pads, other than those near the Cocheco River, are typically restored to an approximately 30-ft by 60-ft size. Topsoil pushed to the sides during the initial construction will be used to cover the work pads. Exposed soils will be stabilized with seed and mulch. Temporary construction mats will be removed from wetland areas as soon as work is complete and wetland areas will be stabilized/restored with weed-free straw mulch, if necessary. Matting will be removed in a similar manner to how it was installed.

(b) *Avoidance: The potential impacts have been avoided to the maximum extent practicable. The APPLICANT will demonstrate by plan and example that the proposed construction represents the least impacting alternative.*

The proposed structure replacements have been designed to avoid permanent fill and loss of wetland and stream areas by utilizing upland areas as much as possible and using temporary construction mats. The mats will result in minimal temporary disturbance of the shrub and herbaceous vegetation underneath, but the vegetation is expected to quickly recover following removal of the construction mats after construction is complete. Mats will be used to span streams and will not disturb streambanks or modify hydrology.

Wetlands will be protected from stormwater runoff through erosion and sedimentation control measures, and exposed soils will be stabilized in accordance with the measures discussed in Section 3.4.1. Additionally, appropriate siltation prevention measures will be implemented and inspected during construction and post-construction to prevent erosion, siltation, and turbidity. The erosion control methods and materials will follow the Utility BMP Manual. Perimeter controls (silt fence, straw bales, straw wattles, etc.) will be installed along the limits of work to protect adjacent resources and off-site area. If necessary, other BMPs including stone check dams and dewatering basins will be used to control and treat stormwater and prevent runoff to abutting or downslope properties.

The tidal wetland, wetland W02 associated with the Cocheco River, will be completely avoided by construction activities. Work will occur within the adjacent upland only, and erosion and sedimentation controls will be installed prior to ground disturbance to protect the wetland and river.

(c) *Minimization: Any unavoidable impacts have been minimized. No reasonable Alternative to the proposed construction exists which does not impact a wetland or which has less detrimental impact on a wetland. Design, construction and maintenance methods will be*

prepared by a registered engineer to minimize detrimental impacts to the wetlands and will include restoration of the site as nearly as possible to its original grade.

The Project is designed to replace existing infrastructure in an existing and maintained utility ROW. The Project does not propose any permanent impacts directly to surface waters or wetlands. Areas where district buffers are impacted have been reduced by using upland matting adjacent to wetlands in some areas and by reducing the overall footprint of structure work pads in others. Additionally, where ground disturbance and work area construction will occur near wetlands, appropriate erosion prevention measures will be implemented during construction and post-construction to prevent the migration of sediment laden runoff from reaching the adjacent wetlands. These areas will be inspected regularly for correct installation and to confirm that they remain effective erosion prevention measures.

The erosion control prevention and sediment control methods and materials will follow the Utility BMP Manual. Perimeter controls (silt fence, straw bales, straw wattles, etc.) will be used to protect adjacent resources and off-site areas. If necessary, other BMPs including stone check dams and dewatering basins will be used to control and treat stormwater and prevent runoff to abutting or downstream properties.

Temporary wetland and wetland buffer impacts will be avoided and minimized by following the Utility BMP Manual. This includes:

- Using wooden construction mats to support machinery in wetlands;
- Removing and restoring temporary impacts to wetlands, if necessary;
- Smoothing rutted areas, seeding as required, and mulching with weed-free straw;
- Using erosion and sediment controls as needed where ground disturbing activities are adjacent to wetland areas;
- Requiring contractors to follow practices outlined in the Utility BMP Manual to help prevent the spread of invasive species; and
- Conducting weekly inspections to monitor compliance with minimization measures and providing any site restoration recommendations as needed.

The new structure locations and associated structure components were designed by Eversource's engineers. Work and access roads were designed based on the results of the wetland delineation performed by a New Hampshire Certified Wetland Scientist and a constructability field review by Eversource engineers and construction personnel.

(d) Mitigation: If the APPLICANT is required by State rules to prepare a compensatory mitigation plan, the APPLICANT shall provide the Conservation Commission and PLANNING BOARD with one copy each of said plan for their review.

The Project will require temporary matting impacts to wetlands but will not result in permanent loss of any wetland area or permanent alterations to the wetland hydrology or associated vegetation; therefore, a compensatory mitigation plan is not proposed for the work in any of the

five Impact Areas. Additionally, the applicant has consulted with the NHDES Wetlands Bureau, which has concurred with the minimum impact determination for the R169 Project.

(e) *Approval for the wetlands impact has been received from the NHDES Wetlands Bureau pursuant to Section G (3), below.*

A Wetlands Utility Maintenance Activity SPN will be submitted for the Project. On November 16, 2023, Eversource met with the NHDES Wetlands Bureau and the USACE. During this meeting, a determination was made that the Project qualified for a 'minimum impact' since there are no permanent impacts to delineated wetlands, vernal pools, streams or other sensitive resources associated with the Project and Eversource will minimize temporary impacts and restore permanent upland impacts. The SPN application and NHDES and USACE permit approvals will be forwarded to the City as required and/or requested. Additional pending approvals are listed in Section 4.2 below.

4.2 CONSERVATION DISTRICT

The Conservation District includes water bodies, rivers, streams, swamps and marshes subject to tidal action and those areas within a minimum of 100 ft of each, as defined in Dover Zoning Ordinance, Article 170-27. The Conservation District also includes specific lots as defined in Article 170-27, as well as areas with slopes 20% and more than 2,000 square feet (sf) of contiguous area, neither of which is located within the Project area. Project activities subject to a CUP that are within the Conservation District are limited to temporary placement of timber mats at stream crossings and creation of stone work pads and access road improvements in river and stream buffer areas. New structures will be placed in the same general location as the existing structures. The proposed access roads were sited along existing roads or trails wherever possible.

The Project will meet the following Conservation District standards for Conditional Use Approval, as outlined in the Dover Zoning Ordinance, Article 170-27.C(2).

(a) The APPLICANT shall demonstrate that the proposed use is essential to the productive use of land not in the district; is located and constructed to minimize any detrimental impact of such use upon the surface waters or other environmentally sensitive areas, where it is physically impossible to locate such use on land not in the district; and economic advantage alone shall not be deemed a sufficient reason for such proposed use.

Approval of this CUP application would allow Eversource to maintain critical infrastructure necessary to provide the public with reliable electricity. The existing structures and line are currently located within the Conservation District and would remain as such following the structure replacements. The proposed Project is in the public's interest (versus economic advantage to Eversource) because the structure replacements will allow for the continued supply of reliable electricity to Eversource's customers. The avoidance and minimization efforts described above in section 4.1 for the Wetland Protection District also apply to the Conservation District.

(b) *A soil erosion and sedimentation control plan is submitted and followed to verify the planned avoidance of sediment pollutant runoff to bodies of water. This plan will address the following (if applicable), but should not be limited to:*

(i) stabilization of exposed soils and soil stockpiles;
(ii) protection of steep slopes from erosion;
(iii) construction site waste management;
(iv) inspection and maintenance of runoff control measures (BMPs);
(v) minimization of land clearing;
(vi) stabilization of drainage ways;
(vii) installation of perimeter controls;
(viii) installation of sediment trapping devices; and
(ix) storm drain inlet protection.

Erosion and sedimentation control practices will follow the Utility BMP Manual). Typical erosion and sedimentation controls devices used within the ROW may consist of silt fence, straw wattles, stone check dams, and/or hay and weed-free straw mulch stabilization. Erosion and sedimentation control notes and details are included on the attached map set. Approximate locations of erosion and sedimentation controls are shown around proposed work areas and access roads on the attached map set. Installation and maintenance of erosion and sedimentation controls will occur throughout the construction phase of the project. The controls will be inspected regularly by Eversource's contractors and environmental monitors and maintained and/or replaced as needed. Additional details are provided in sections 3.3 and 3.4 above.

(c) Necessary state and federal approvals have been applied for. Said permits shall be received prior to the issuance of the Conditional Use Permit by the Planning and Community Development Department.

Regulatory permits, approvals, and notifications required for the proposed Project are summarized below. The City will be provided copies of permit approvals when they are received. Given the review periods associated with some of the required permits, Eversource requests that the City condition approval of the CUP so that permit may be provided as they are received, rather than prior to the issuance of the CUP. The following state and federal permits are anticipated to be required for the Project:

- NHDES Utility Statutory Permit by Notification (submitted)
- NHDES Protected Shoreland Permit by Notification (pending submission)
- NHDES Alteration of Terrian Permit (submitted)
- USACE Pre-Construction Notification (pending submission)
- USACE Section 408 Variance Approval (pending)

(d) *A written review by the Conservation Commission of the environmental effects of the proposed use upon the area in question has been submitted. The Commission's review shall address the following, but is not limited to:*

(i) attempted avoidance of the impact;

(ii) minimization of the impact;

(iii) planned mitigation of the effects of the impact; and

(iv) efficacy of the soil erosion and sedimentation control plan.

Watercourses and surface waters have been avoided to the extent possible, and no alterations of banks or natural geomorphology are proposed. Temporary construction mats will be used to bridge, and avoid, stream areas; mats will be removed following construction. Conditions or requests for information related to environmental effects made by the local Conservation Commission will be documented and applied to the project where feasible.

4.3 IMPACT AREAS

Anticipated temporary and permanent impacts within the Conservation District and Wetland Protection District are summarized by Impact Area in Table 1 and described per area below. Each area corresponds with respective map sheets (Impact Area 1 corresponds with Map Sheet 1, etc.) in the attached CUP permit map set. Temporary impacts include timber matting and areas that will be restored post-construction, and permanent impacts within buffers are for gravel access road and work pad construction. Most of the impacts across the five impact areas (Map Sheets 1–5) occur in the Wetland Protection District and of those impacts 64% are temporary; the remaining 36% are permanent impacts in upland wetland buffer areas (see Impact Area discussions below for more details).

4.3.1 Impact Area 1

Within the Wetland Protection District, anticipated impacts in Impact Area 1 include approximately 5,526 sf of temporary impacts within wetland buffer areas of wetland W02 (overlaps 100% with areas subject to tidal action in the Conservation District), and approximately 19,734 sf of temporary impacts within the buffer area of areas subject to tidal action in the Conservation District. These temporary impacts associated with the creation of access roads and work pad construction are necessary to complete the replacement of proposed structures 27 and 28. Disturbances associated with these structure replacements will be fully restored once construction is complete, and no permanent impacts are anticipated in either District.

Impacts were avoided and minimized to the greatest extent practicable by minimizing the length of the new access road, locating access roads and work pads outside of wetland boundaries and wetland buffers, where possible, utilizing existing disturbances/access roads, and reducing the construction footprint and restoring areas along the Cocheco River shoreland that are within the Wetland Protection and Conservation Districts.

4.3.2 Impact Area 2

Within the Wetland Protection District, anticipated impacts in Impact Area 2 include approximately 742 sf of temporary wetland impacts (i.e., timber matting) and approximately 1,802 sf of temporary impacts in wetland buffer areas to cross wetland W11 and stream S04 along the access route between proposed structures 18 and 19. Within the Conservation District, approximately 1,515 sf of temporary impacts in stream buffer areas are anticipated. Overlapping buffer areas include approximately 773 sf of temporary impacts. Areas within and surrounding the Districts are existing fields and residential areas, and temporary upland matting will be used to avoid ground disturbance at the landowner's request. No permanent impacts are anticipated within either District.

4.3.3 Impact Area 3

Within the Wetland Protection District, anticipated impacts in Impact Area 3 include approximately 23,279 sf of temporary wetland impact (i.e., timber matting), approximately 16,716 sf of temporary impact in wetland buffer areas, and approximately 29,941 sf of permanent impact in wetland buffer areas to create the access road and work areas associated with proposed structures 13 through 18, across wetlands W12 through W16.

Impact Area 3 is the only Impact Area on the R169 line where upland buffer area impacts are proposed to be permanent (see Table 1 and Map Sheet 3 of 5). The permanent impacts are a result of the proposed 100-ft by 100-ft gravel work pads around proposed structures 14, 15, 16, and 18. In the case of the pads at proposed structures 14, 15, and 18, a portion of the 100-ft by 100-ft pad area will be gravel, with the remaining pad area constructed using temporary wetland matting. In these three locations, it is likely that the temporary matting will cover an even greater proportion of the pad area. Proposed structure 16 is the sole location where the entire pad is proposed to be gravel, and this location is entirely upland. No temporary or permanent impacts are anticipated within the Conservation District in Impact Area 3.

4.3.4 Impact Area 4

Within the Wetland Protection District, anticipated impacts in Impact Area 4 include approximately 3,188 sf of temporary wetland impact (i.e., timber matting) and approximately 1,852 sf of temporary impact in wetland buffer areas. Temporary impacts to wetlands and buffers include access across wetland W17 between proposed structures 9 and 10, and work areas and access in wetland W18 at proposed structure 7; no permanent impacts are anticipated due to landowner requests to use upland matting to protect existing field areas. No Conservation Districts are present in Impact Area 4.

4.3.5 Impact Area 5

Within the Wetland Protection District, anticipated impacts in Impact Area 5 include approximately 29,676 sf of temporary wetland impact (i.e., timber matting) and approximately 942 sf of temporary impact in wetland buffer areas to create work areas and access in wetland W18 associated with proposed structure 6; no permanent impacts are proposed. The Project will utilize an existing gravel access road from the 307 line ROW to proposed structure 6 to traverse through the Conservation Districts associated with

streams S05, S06, and S07 to avoid temporary and permanent impacts within those buffers. No work is proposed within the Conservation District associated with the Piscataqua River.

PHOTOGRAPHS

R169 STRUCTURE REPLACEMENT PROJECT
CUP APPLICATION - REPRESENTATIVE PHOTOGRAPHS

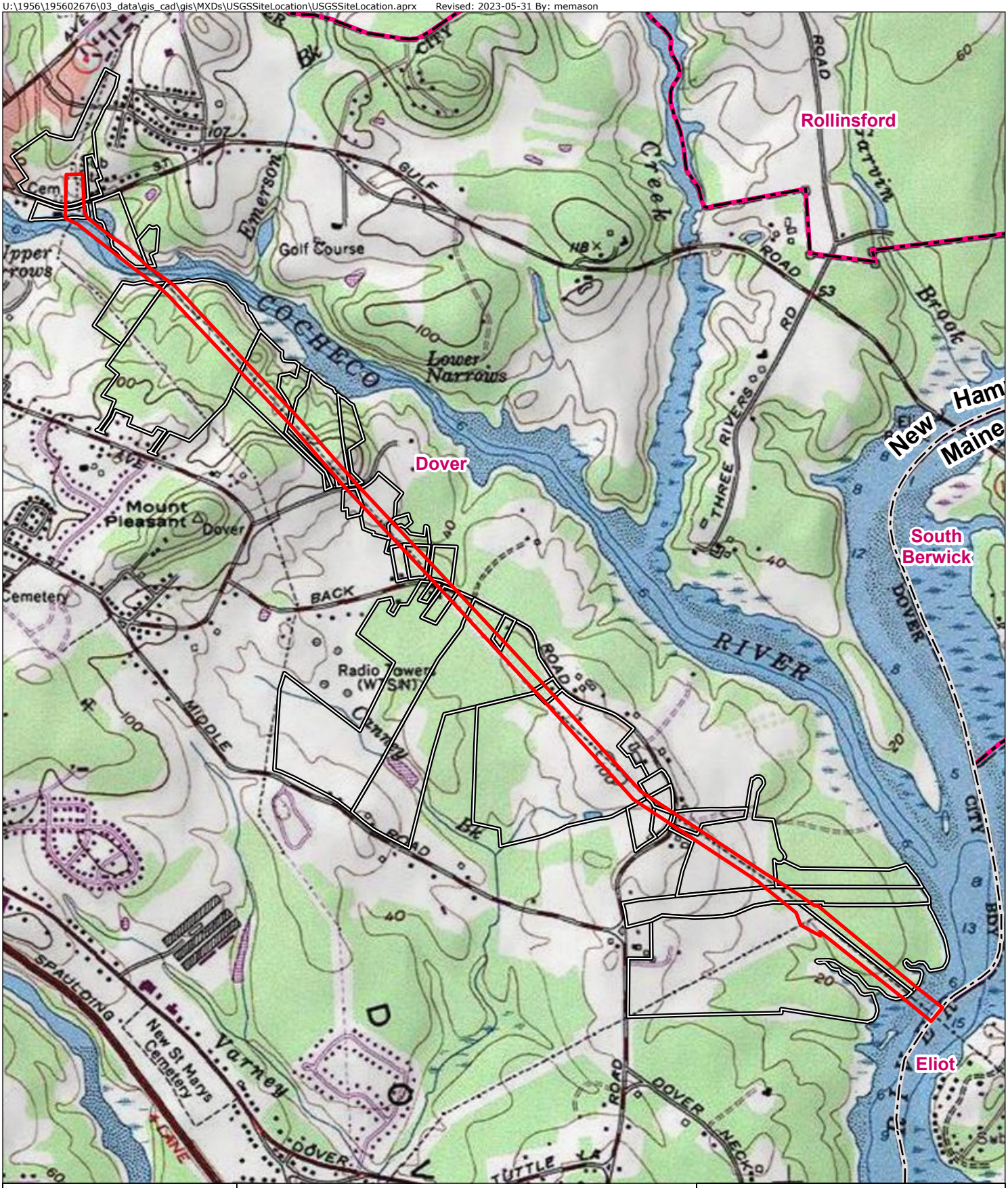
December 22, 2023

Photo 1. View of Cocheco River and structure 26 from east bank below proposed structure 27. Stantec. June 8, 2023.

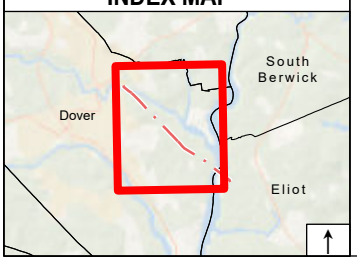
Photo 2. Representative view of the Cocheco River from tidal flats below proposed structure 28. View is northwest to Dover Substation, Dover, NH. Stantec. June 8, 2023.

FIGURES

U:\1956\195602676\03_data\gis_cad\gis\MXDs\USGSSiteLocation\USGSSiteLocation.aprx Revised: 2023-05-31 By: memason



INDEX MAP



Legend

- Approximate Project Limits
- Municipal Boundary
- State Boundary
- Abutting Parcel Boundary

N

1 inch = 1,500 Feet

0 750 1,500 Feet

EVERSOURCE ENERGY

Dover to Eliot (R169)
Structure Replacement Project

Date: May 31, 2023

Figure 1
USGS Location Map

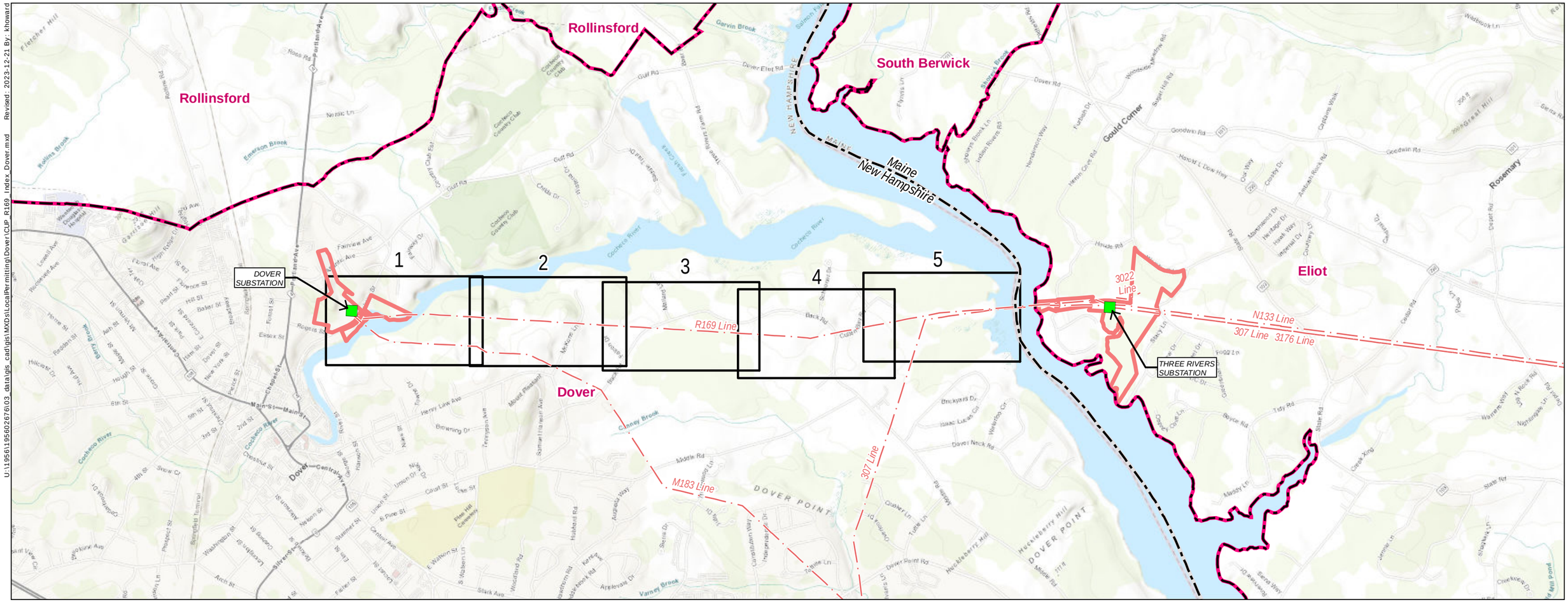
R169 Line - Structure Replacement Project

Dover, NH

Environmental Resources Map

Dover CUP Permit Map Set

Date: December 21, 2023



Legend

Substation | Municipal Boundary | State Boundary | Map Sheet | Eversource Owned Property

PREPARED FOR:

EVERSOURCE ENERGY

107 Selden Street
Berlin, CT 06037

N

0 2,000 4,000 Feet

INDEX OF FIGURES

Title Sheet / Index Map
Map Sheets 1-5

PREPARED BY:

Stantec

30 Park Drive
Topsham, ME 04086

Temporary Wetland Impact (SF)	Temporary Wetland Protection District Impact (SF)	Temporary Conservation District Impact (SF)	Permanent Wetland Protection District Impact (SF)	Permanent Conservation District Impact (SF)
-	5,526	19,734	-	-

UTILIZE EXISTING STREAM CROSSING NO IMPACT.

EXISTING ACCESS WILL RECEIVE MINOR GRADING AND TOP DRESSING

AREAS BETWEEN 50'-150' OF THE REFERENCE LINE OF THE COCHECO RIVER ARE REGULATED PER THE PROTECTED SHORELAND-WOODLAND BUFFER

WORK AREAS ASSOCIATED WITH STRUCTURES 27 AND 28 WILL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS ONCE CONSTRUCTION IS COMPLETE

AREAS WITHIN 50' OF THE REFERENCE LINE OF THE COCHECO RIVER (I.E. WETLAND PROTECTION DISTRICT) ARE REGULATED PER THE PROTECTED SHORELAND-WATERFRONT BUFFER

GERRY'S LANE

COCHECO STREET

Cocheco River

Cocheco River Wildlife Management Area

Dover

Dover Substation

R169 Line

M183 Line

W01-PEM

W02-E2EM

W03-PFO

S01

W04-PSS

W05-PSS

W06-PEM

PVP01

CS

830-269
Tax Map ID: 25067-000000
Leroy W Jones
88 Cocheco Street

830-270
Tax Map ID: 24132-000000
Public Service Company of New Hampshire (Eversource)
Cocheco Street

830-267
Tax Map ID: N0023-000000
Public Service Company of New Hampshire (Eversource)
Cocheco Street

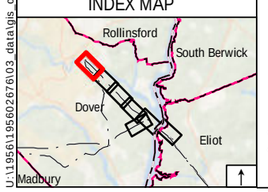
831-026
Tax Map ID: N0022-C00008
Robert A Pruyn Trustee
10 Gerry's Lane

830-268
Tax Map ID: 24133-000000
Public Service Company of New Hampshire (Eversource)
75 Cocheco Street

830-263
Tax Map ID: K0004-C00000
City of Dover
Henry Law Avenue

830-262
Tax Map ID: K0002-000000
State of New Hampshire
Henry Law Avenue

INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Sediment Control Barrier (Typ.)
- Stone Work Pad
- Temporary Wetland Construction Matting
- Temporary Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 830 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- FEMA 100-Year Flood Zone
- FEMA Floodway
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- NHDES 250' Protected Shoreland
- Conservation District
- Wetland Protection District

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines provided by Eversource Energy. Wetlands, watercourses, and potential vernal pools delineated and verified by Stantec June 2023. Additional sources include: FEMA, NH Granit, Maine Geolibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery.

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

R169 Line Structure Replacement
Dover CUP Permit Map Set

Dover, NH | MAP SHEET 1 of 5

Date: December 21, 2023

Stantec

U:\19561\19560267\603_data\gis_cad\gis\MXDs\LocalPermitting\Dover\CUP_R169_MapSet_Dover.mxd Revised: 2023-12-21 By: khoward

APPENDICES

Appendix A WETLAND DELINEATION REPORT

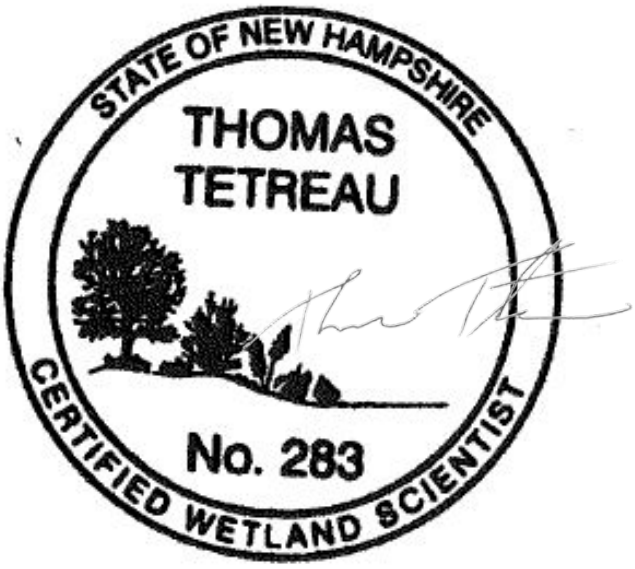
Wetland and Watercourse Delineation and Functional Assessment Report: R169 Structure Replacement Project

Dover, New Hampshire, and Eliot, Maine

September 14, 2023

Prepared for:

Eversource Energy
13 Legends Drive
Hooksett, NH 03106



Prepared by:

Stantec Consulting Services Inc.
30 Park Drive
Topsham, ME 04086

Table of Contents

1.0 INTRODUCTION 1

2.0 METHODS 1
2.1 WETLAND AND WATERCOURSE DELINEATION 1
2.2 FUNCTIONAL ASSESSMENT 2

3.0 RESULTS 3
3.1 GENERAL SITE DESCRIPTION 3
3.2 WETLAND AND WATERCOURSE DELINEATION 3
3.3 FUNCTIONAL ASSESSMENT 7

LIST OF TABLES

Table 1. Summary of Delineated Wetlands 4
Table 2. Summary of Delineated Streams 6
Table 3. Summary of Identified Vernal Pools 7
Table 4. Summary of Functional Assessment 8

LIST OF FIGURES

Permit Map Set

LIST OF APPENDICES

Appendix A Representative Photographs
Appendix B Corps Wetland Determination Data Forms (provided upon request)
Appendix C Wetlands Functional Assessment Worksheets (provided upon request)
Appendix D Observed Wildlife

1.0 INTRODUCTION

Eversource Energy (Eversource) proposes to replace approximately 20 existing transmission line structures located within the full length of the R169 Line, totaling approximately 3 miles of combined transmission line right-of-way (ROW) in Dover, New Hampshire and Eliot, Maine (Project Site; see attached Draft Map Set). Of the 20 structures proposed to be replaced, 19 are located in Dover and 1 is located in Eliot. Stantec Consulting Services Inc. (Stantec) was contracted to conduct wetland and watercourse delineations and a wetland functional assessment of the Project Site to support federal, state, and local natural resource permitting.

Stantec conducted on-site delineations within the existing ROW between June 8 and June 9, 2023. The delineations were conducted by Tom Tetreau, New Hampshire Certified Wetland Scientist #283. This report includes descriptions of the wetland and watercourse delineation methods and results.

2.0 METHODS

2.1 WETLAND AND WATERCOURSE DELINEATION

The R169 Line was previously delineated over 5 years ago, and the spatial data of these previously delineated wetlands and watercourses were used to aid in the 2023 wetland and watercourse delineation.

Wetland boundaries under local, state, and federal jurisdiction were determined using the technical criteria described in the U.S. Army Corps of Engineers (Corps) *Corps of Engineers Wetlands Delineation Manual*[1] and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Regional Supplement.*[2] Wetland communities were classified according to the *Classification of Wetlands and Deepwater Habitats of the United States.*[3] Hydric soil determinations were made in accordance with the Corps wetland delineation manuals and the *Field Indicators for Identifying Hydric Soils in New England (Version 4).*[4]

Wetland boundaries anticipated to meet state, federal, and local jurisdictional criteria were located using a Global Positioning System (GPS) receiver capable of submeter accuracy. The previously delineated

[1] Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1. U.S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, MS.
[2] U.S. Army Corps of Engineers. 2011. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Version 2.0), ed. J. S. Wakeley, R. W. Lichvar, and C. V. Noble. ERDC/EL TR-12-1. Vicksburg, MS: U.S. Army Engineer Research and Development Center.
[3] Federal Geographic Data Committee. 2013. Classification of wetlands and deepwater habitats of the United States. FGDC-STD-004-2013. Second Edition. Wetlands Subcommittee, Federal Geographic Data Committee and U.S. Fish and Wildlife Service, Washington, DC.
[4] New England Hydric Soils Technical Committee. 2017. Field Indicators for Identifying Hydric Soils in New England (Version 4).

wetland boundaries were confirmed using the GPS, with revisions to the boundaries located with the GPS as necessary.

Watercourses (e.g., streams) identified during the delineations were identified based on the definitions in NHDES Certified Administrative Rules Env-Wt 406.04, as well as the technical guidance available from the Corps on the identification of an Ordinary High Water Mark.[5] The top of each bank was mapped for streams typically over 6 feet wide, and the centerline was mapped for streams with top of bank widths up to 6 feet wide. Data was collected on flow regime, top of bank, band depth, Ordinary High Water Mark widths, dominant substrates, and evidence of biological use. GPS data were used to produce the attached map set.

The wetland delineation occurred outside the appropriate identification period for vernal pool indicator species; therefore, potential vernal pools were identified and evaluated in accordance with the *Identification and Documentation of Vernal Pools in New Hampshire.*[6] Potential vernal pools were primarily identified based on their physical characteristics and landscape position, and the presence of vernal pool indicator species, if observed. Observations of approximate size, hydrology, and evidence of disturbance were recorded. The boundaries of the potential vernal pools were located with GPS receivers, and photographs were taken of each vernal pool identified.

Priority Resource Areas (PRA), as defined in Env-Wt 103.66, were identified based on field observations and use of the Wetlands Permit Planning Tool.[7] PRAs identified along the R169 Line consisted of wetlands contiguous with tier 3 streams, tidal wetlands, and undeveloped tidal buffer zones.

2.2 FUNCTIONAL ASSESSMENT

Stantec performed a wetland functional assessment of the delineated wetlands and watercourses in accordance with New Hampshire Wetland Rules (Env-Wt 311.10). Wetland functions and values were qualitatively evaluated through direct field observation and a review of existing public data resources following the New Hampshire Method for evaluating the Ecological Integrity of the Wetlands and Streams (RSA 482-A:2, XI) and Corps *Highway Methodology Workbook Supplement.*[8] Information was collected to prepare Corps Wetland Determination Data Forms and Wetlands Functional Assessment Worksheets. Full assessments of Ecological Integrity using the New Hampshire Method is based on a series of desktop and field assessments and results in a numerical Functional Value Index for each wetland. Due to the length of the Project area, the abundance of wetlands, and the anticipated wetland impacts associated with the Project (temporary timber matting), Stantec evaluated the Ecological Integrity of each wetland using a qualitative value of low, medium, and high that considered the condition of the wetland

[5] U.S. Army Corps of Engineers. 2005. Regulatory Guidance Letter: Ordinary High Water Mark Identification. December 8, 2005. No. 05-05.

[6] Marchand, M. 2016. *Identifying and Documenting Vernal Pools in New Hampshire*. Third Edition, New Hampshire Fish and Game Department, Nongame and Endangered Wildlife Program.

[7] https://nhdeswppt.unh.edu/, accessed June 2023.

[8] U.S. Army Corps of Engineers. 1999. The Highway Methodology Workbook Supplement, Wetland Functions and Values: A Descriptive Approach. U.S. Army Corps of Engineers. New England Division. 32pp. NAEEP-360-1-30a.

relative to human-caused stressors, diversity of native vegetation, and presence of natural processes. This modified method allowed for a more consistent and streamlined approach when completing the required Wetlands Functional Assessment Worksheets. The temporary impact area (matting) listed on the Wetlands Functional Assessment Worksheets is approximate based on preliminary mapping and Project design and represents the greatest amount of impact likely to occur. Temporary wetland impacts will be minimized throughout the permitting and design process, and some of these wetland impact areas may decrease.

3.0 RESULTS

3.1 GENERAL SITE DESCRIPTION

The R169 Line is an existing transmission line that traverses forested, residential, and agricultural landscapes between the Dover Substation in Dover and the Three Rivers Substation in Eliot. The open transmission line is approximately 100 feet wide in most areas, with wider stretches, up to 250-feet wide, containing additional transmission lines in the areas around the Piscataqua River crossing. The ROW primarily crosses rural areas and town roads, as well as the Cocheco River and the Piscataqua River. The topography varies from flat lowlands and fields to undulating hills and steep side slopes. Elevations generally range between 0 and 90 feet above mean sea level.

The open upland natural communities consist of early successional shrub, sapling, and herbaceous species. Characteristic woody vegetation includes gray birch (*Betula populifolia*), quaking aspen (*Populus tremuloides*), red maple (*Acer rubrum*), sheep-laurel (*Kalmia angustifolia*), late lowbush blueberry (*Vaccinium angustifolium*), white meadowsweet (*Spiraea alba*), Allegheny blackberry (*Rubus allegheniensis*), American hazelnut (*Corylus americana*), red oak (*Quercus rubra*), and red raspberry (*Rubus idaeus*). Commonly observed herbaceous vegetation included little Canada mayflower (*Maianthemum canadense*), wrinkle-leaf goldenrod (*Solidago rugosa*), Canada goldenrod (*Solidago canadensis*), bracken fern (*Pteridium aquilinum*), hay-scented fern (*Dennstaedtia punctilobula*), wild strawberry (*fragaria virginiana*), bristly dewberry (*Rubus hispidus*), Kentucky blue grass (*Poa pratensis*), and other common grass and wildflower species. Non-native invasive species abundance was moderate compared to native vegetation and included rambler rose (*Rosa multiflora*), Japanese barberry (*Berberis thunbergii*), Morrow's honeysuckle (*Lonicera morrowii*), and glossy false buckthorn (*Frangula alnus*). Soils within the ROW consisted primarily of loam and silty loam.

3.2 WETLAND AND WATERCOURSE DELINEATION

The wetland and watercourse delineations were conducted on June 8 and June 9, 2023, under appropriate conditions during the growing season. A total of 23 wetlands, 9 unnamed watercourses, and the Cocheco River and Piscataqua River were delineated. In addition, one potential vernal pool was surveyed. The locations of the delineated wetlands, watercourses, and potential vernal pool are included on the attached Draft Map Set. Tables 1, 2, and 3 summarize the delineated wetlands, watercourses, and potential vernal pool, respectively. Representative site photographs are provided in Appendix A. Representative Corps Wetland Determination Forms are included in Appendix B.

Table 1. Summary of Delineated Wetlands

Wetland Resource Identifier	Wetland Classification[1]	Dominant and Characteristic Vegetation	Hydric Soil Indicators	Wetland Hydrology Indicators	Priority Resource Area (PRA)	Additional Comments
W001	PEM	Trees: None Saplings/Shrubs: None Herbs: broad-leaf cat-tail (*Typha latifolia*), lamp rush (*Juncus effusus*), cottongrass bulrush (*Scirpus cyperinus*), sensitive fern *(Onoclea sensibilis*), uptight sedge (*Carex stricta*)	F3: Depleted Matrix	A3: Saturation B9: Water-stained leaves	No	Ditch excavation around existing substation
W002	E2EM	Trees: none Saplings/Shrubs: none Herbs: saltwater cord grass (*Spartina alterniflora*), eastern grasswort (*Lilaeopsis chinesis*)	F3: Depleted Matrix	A1: Surface Water A2: High Water Table A3: Saturation	Yes - Tidal	Tidal wetland associated with Cocheco River. Rare plant species observed.
W003	PFO	Trees: Norway maple (*Acer plantanoides*) Saplings/Shrubs: speckled alder (*Alnus incana*) Herbs: sensitive fern, lamp rush	F3: Depleted Matrix	A3: Saturation B9: Water-stained leaves	Yes – within 100-feet of tidal areas	Stream S01 flows through wetland and into the Cocecho River.
W004	PSS	Trees: None Saplings/Shrubs: speckled alder Herbs: broad-leaf cat-tail, sensitive fern	F3: Depleted Matrix	A2: High Water Table A3: Saturation	Yes – within 100-feet of tidal areas	
W005	PSS/PEM	Trees: None Saplings/Shrubs: speckled alder Herbs: sensitive fern, broad-leaf cat-tail, lamp rush	F3: Depleted Matrix	A2: High Water Table A3: Saturation	No	
W006	PEM	Trees: none Saplings/Shrubs: red maple, speckled alder Herbs: sensitive fern, broad-leaf cat-tail, lamp rush, reed canary grass (*Phalaris arundinacea*), spotted touch-me-not (*Impatiens capensis*)	F3: Depleted Matrix	A3: Saturation	No	Contains potential vernal pool PVP01.
W007	PSS	Trees: none Saplings/Shrubs: speckled alder Herbs: sensitive fern, lamp rush, spotted touch-me-not, bluejoint (*Calamagrostis canadensis*), woodland horsetail (*Equisetum sylvaticum*)	F3: Depleted Matrix	A3: Saturation	No	Contains stream S02.
W008	PEM	Trees: none Saplings/Shrubs: speckled alder Herbs: broad-leaf cat-tail, sensitive fern, uptight sedge	F3: Depleted Matrix	A3: Saturation	No	Contains stream S03.
W009	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, lamp rush, spotted touch-me-not, purple loosestrife (*Lythrum salicaria*)	F3: Depleted Matrix	A3: Saturation	No	

Wetland Resource Identifier	Wetland Classification[1]	Dominant and Characteristic Vegetation	Hydric Soil Indicators	Wetland Hydrology Indicators	Priority Resource Area (PRA)	Additional Comments
W010	PEM/PSS	Trees: none Saplings/Shrubs: speckled alder Herbs: sensitive fern, lamp rush, woodland horsetail, bluejoint, reed canary grass	F3: Depleted Matrix	A3: Saturation	No	
W011	PSS	Trees: none Saplings/Shrubs: speckled alder, common winterberry (*Ilex verticilata*) Herbs: nodding sedge (*Carex gynandra*), sensitive fern, spotted touch-me-not, reed canary grass	F3: Depleted Matrix	A2: High Water Table A3: Saturation	No	Contains stream S04.
W012	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, bluejoint, lamp rush, broad-leaf cat-tail	F3: Depleted Matrix	A3: Saturation	No	
W013	PEM	Trees: none Saplings/Shrubs: alder Herbs: sensitive fern, broad-leaf cat-tail, lamp rush, skunk-cabbage (*Symplocarpus foetidus*)	F3: Depleted Matrix	A2: High Water Table A3: Saturation	No	
W014	PEM/PSS	Trees: none Saplings/Shrubs: red maple, speckled alder, common winterberry Herbs: sensitive fern, lamp rush, broad-leaf cat-tail, reed canary grass, wrinkle-leaf goldenrod	F3: Depleted Matrix	A3: Saturation B9: Water-stained leaves	No	
W015	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, bluejoint, steeplebush, wrinkle-leaf goldenrod, lamp rush	F3: Depleted Matrix	A3: Saturation	No	Portion of wetland within maintained lawn/yard area.
W016	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, lamp rush, uptight sedge, fowl manna grass (*Glyceria striata*), greater bladder sedge (*Carex intumescens*)	F3: Depleted Matrix	A3: Saturation	No	
W017	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, bluejoint, reed canary grass	F3: Depleted Matrix	A3: Saturation B9: Water-stained leaves	No	
W018	PSS/PEM	Trees: none Saplings/Shrubs: broad-leaf meadowsweet (*Spiraea latifolia*), coastal sweet pepperbush (*Clethra alnifolia*), speckled alder, common winterberry Herbs: sensitive fern, lamp rush, bluejoint, blue iris (*Iris versicolor)*	F3: Depleted Matrix	A3: Saturation	No	Portion of wetland is mowed hay field. Contains stream S05.

Wetland Resource Identifier	Wetland Classification[1]	Dominant and Characteristic Vegetation	Hydric Soil Indicators	Wetland Hydrology Indicators	Priority Resource Area (PRA)	Additional Comments
W019	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, lamp rush, broad-leaf cat-tail, necklace sedge (*Carex projecta*)	F3: Depleted Matrix	A3: Saturation	No	
W020	PEM/PSS	Trees: none Saplings/Shrubs: pussy willow (*Salix discolor*) Herbs: sensitive fern, bluejoint, reed canary grass, lamp rush, broad-leaf cat-tail	F3: Depleted Matrix	A3: Saturation	No	
W021	PEM	Trees: none Saplings/Shrubs: speckled alder Herbs: lamp rush, sensitive fern, cottongrass bulrush	F3: Depleted Matrix	A3: Saturation B10: Wetland drainage patterns	No (Maine)	Adjacent to Piscataqua River. Portions within mowed lawn/yard area.
W022	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, lamp rush, woodland horsetail, cottongrass bulrush	F3: Depleted Matrix	A3: Saturation	No (Maine	
W023	PSS/PEM	Trees: none Saplings/Shrubs: broad-leaf meadowsweet, speckled alder, common winterberry Herbs: sensitive fern, lamp rush, broad-leaf cat-tail	F3: Depleted Matrix	A3: Saturation B9: Water-stained leaves	No (Maine)	

[1] PEM = Palustrine Emergent, PSS = Palustrine Scrub-shrub, PUB = Palustrine Unconsolidated Bottom, PFO = Palustrine Forested, E2EM = Estuarine Intertidal Emergent

Table 2. Summary of Delineated Streams

Stream Identifier	Flow Type	Bankfull Width (ft)	Ordinary High Water Mark Width (ft)	Dominant Substrates	Additional notes
S01	Perennial	4-6	4-6	Sand, gravel, silt	Flows south through W03, into the Cocheco River
Cocheco River	Perennial/Tidal	200+	200+	Silt, gravel, mud	
S02	Intermittent	2-3	2-3	Silt, gravel	Flows across ROW toward Cocheco River
S03	Perennial	8	8	Cobbles, gravel, boulders	Flows across ROW toward Cocheco River
S04	Perennial	4	4	Silt, gravel	Flows through wetland W11 in residence area
S05	Intermittent	4	4	Silt, gravel	Flows from wetland W18 towards Piscataqua River
Piscataqua River	Perennial/Tidal	850+	850+	Silt, gravel, mud	
S06	Intermittent	3	3	Sand, silt, gravel	Flows across ROW toward Piscataqua River; flows under existing road through culvert
S07	Intermittent	4	4	Gravel, cobbles	Flows across ROW toward Piscataqua River; flows under existing road through culvert
S08	Intermittent	4	4	Silt, gravel, cobbles	Flows across ROW toward Piscataqua River; flows under existing road through culvert
S09	Ephemeral	4	5	Sand, gravel	Originates from culvert under existing road, likely only flows during heavy rain

Table 3. Summary of Identified Vernal Pools

VP Identifier	Estimated Hydroperiod	Indicator Species	Comments
PVP01	Semi-permanent	Unknown adult frogs observed	Potential old excavation adjacent to pipeline crossing of the transmission line ROW. Approximately 50-foot diameter and 1 to 2 feet deep with mucky substrate.

3.3 FUNCTIONAL ASSESSMENT

Table 4 summarizes the results of the wetland functional assessment. In general, wetlands within the Project area provide a variety of functions and values. Nutrient Trapping / Retention & Transformation, Sediment Trapping, and Wetland-dependent Wildlife Habitat were the most common functions along with Groundwater Recharge and Flood Storage.

Wetlands Functional Assessment Worksheets for wetlands proposed to be impacted by temporary timber matting are included in Appendix C. Potential vernal pools and streams were considered when performing the functional assessment of impacted wetlands, but since no impacts are proposed to potential vernal pools and streams, a full assessment of these features was not included in the Wetlands Functional Assessment Worksheets. The list of observed wildlife is included in Appendix D, and Table 1 above includes the observed vegetation.

Table 4. Summary of Functional Assessment

Wetland Resource Identifier	Wetland Functions and Values[1]													
	1 Ecological Integrity[2]	2 Educational Potential	3 Fish and Aquatic Life Habitat	4 Flood Storage	5 Groundwater Recharge	6 Noteworthiness	7 Nutrient Trapping / Retention & Transformation	8 Production Export	9 Scenic Quality	10 Sediment Trapping	11 Shoreline Anchoring	12 Uniqueness/ Heritage	13 Wetland-based Recreation	14 Wetland-dependent Wildlife Habitat
W001	Low			X			P	X		X				
W002	High		P	P		P	P	X		X	P	X		X
W003	Moderate			P			X	X		X	X			X
W004	Moderate			P			X	X		X	P			X
W005	Moderate			P	X		X	X		X				X
W006	Moderate				P		X	X		X				P
W007	Moderate			X	P		X	X		X	P			X
W008	Moderate			X	P		X	X		X	P			X
W009	Low				P		X	X		X				X
W010	Moderate			X	P		X	X		X				X
W011	Moderate		X	X	X		X	X		X	P			X
W012	Low				X		P	X		X				X
W013	Moderate			X	X		P	X		X				X
W014	Moderate			X	X		P	P		X				X
W015	Low				X		X	X		P				X
W016	Low				X		P	X		X				X
W017	Moderate						X	P		X				X
W018	Moderate			X	X		P	X		X				X
W019	Low						P	X		P				X
W020	Low						P	X		P				X
W021	N/A, Maine			P	X		X	X		P				X
W022	N/A, Maine				X		X	X		P				X
W023	N/A, Maine			X	P	X	X	X		P				X

X = Function observed within wetland, P = Principal Function

[1] Corps Highway Methodology Workbook Supplement

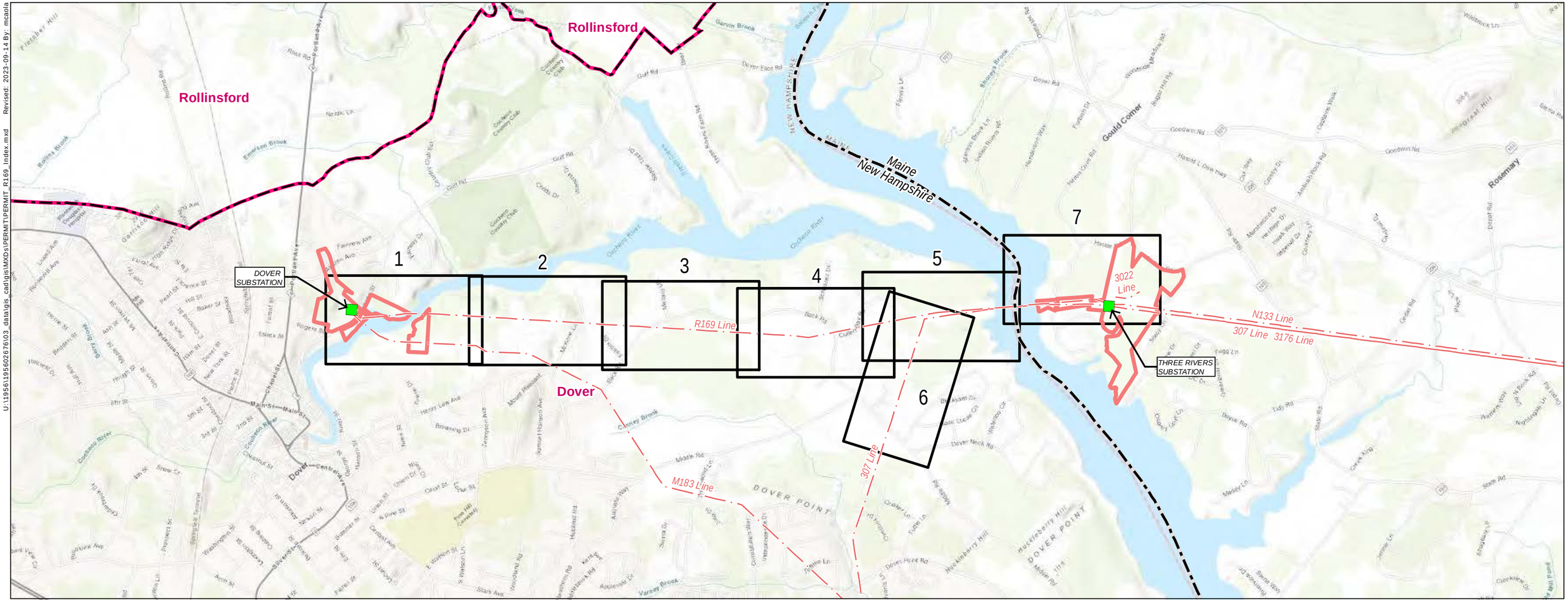
[2] Method for the Comparative Evaluation of Nontidal Wetlands in New Hampshire

FIGURES

R169 Line - Structure Replacement Project

Dover, NH and Eliot, ME
Environmental Resources Map
PERMIT Map Set
Date: September 14, 2023

U:\119561195602676\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_Index.mxd Revised: 2023-09-14 By: mcaola



Legend

Substation | Municipal Boundary | State Boundary | Map Sheet | Eversource Owned Property

N

0 2,000 4,000 Feet

PREPARED FOR:

EVERSOURCE ENERGY

107 Selden Street
Berlin, CT 06037

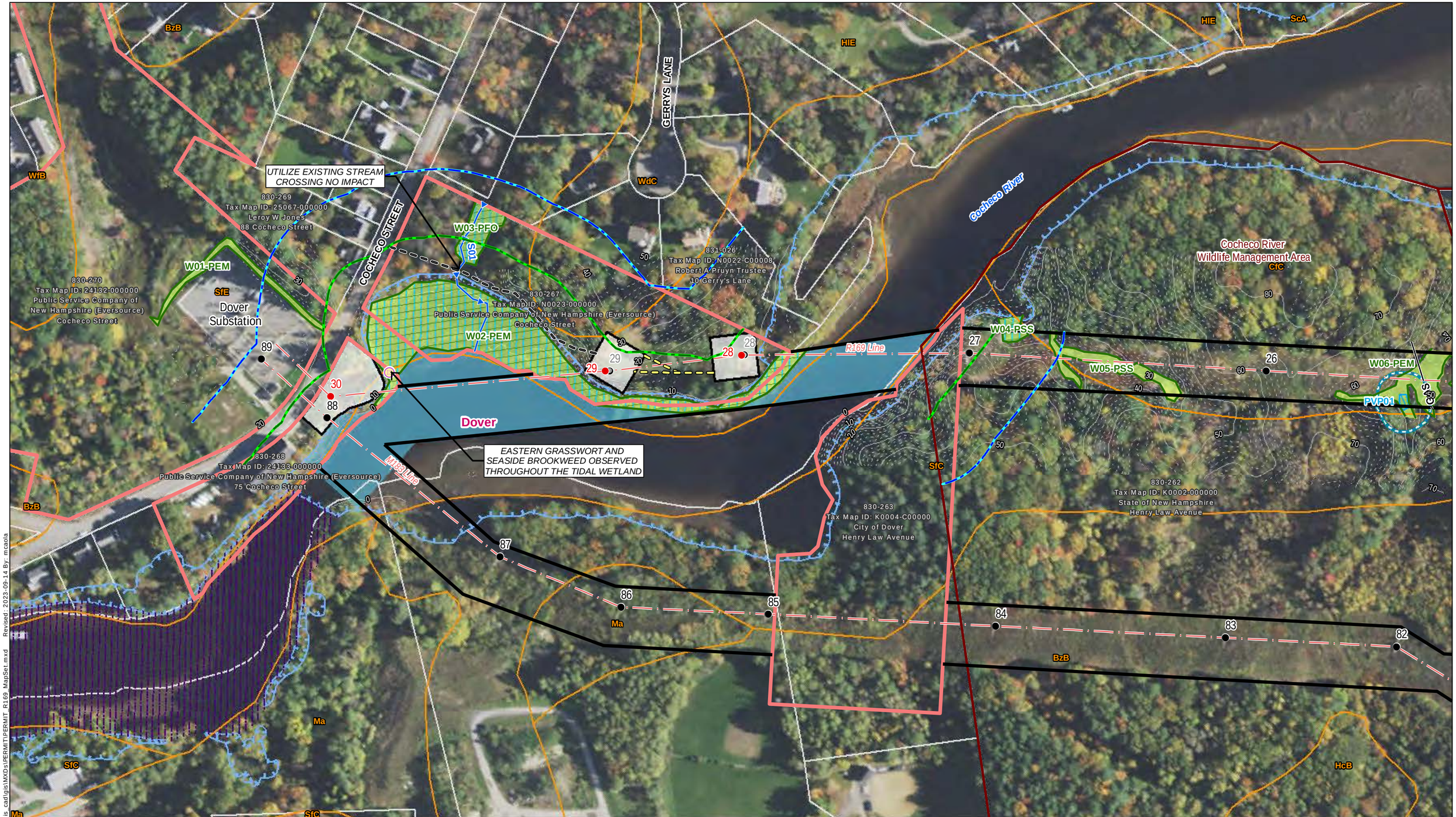
INDEX OF FIGURES

Title Sheet / Index Map
NRCS Soils Table
Map Sheets 1-7

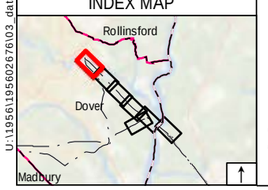
PREPARED BY:

Stantec

30 Park Drive
Topsham, ME 04086



INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 830 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine Geolibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

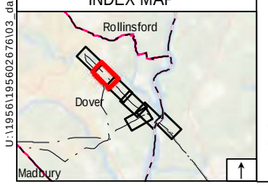
R169 Line Structure Replacement
PERMIT Map Set

Dover, NH	MAP SHEET 1 of 7
Date: September 14, 2023	Stantec

U:\19560\19560267\603_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

Dover
Cocheco River
Cocheco River Wildlife Management Area
831-022
Tax Map ID: N0018-001000
State of New Hampshire
McKone Lane
831-024
Tax Map ID: K0001-A00000
Robert Swanson
38 McKone Lane
831-025
Tax Map ID: K0001-A00001
State of New Hampshire
McKone Lane
831-023
Tax Map ID: K0001-B00000
State of New Hampshire
McKone Lane
830-262
Tax Map ID: K0002-000000
State of New Hampshire
Henry Law Avenue
831-020
Tax Map ID: N0018-006000
Daniel & Jacqueline Ayer Revocable Trusts
McKone Lane
831-019
Tax Map ID: N0018-014000
Brianna Dichter
10 Whiteley Drive
831-018
Tax Map ID: N0018-000OP1
One Home Builders II LLC
Eagan Drive
831-021
Tax Map ID: N0019-005000
Anthony P Ayer
47 McKone Lane
831-017
Tax Map ID: N0019-A00000
Elaine M Thurston
174 Back Road
WHITELEY DRIVE
EAGAN DRIVE
MCKONE LANE
FALCON DRIVE
BACKROAD
W06-PEM
PVP01
W07-PSS
W08-PEM
W09-PEM
W10-PEM
W11-PSS
SPAN STREAM NO IMPACT
CONFIGURE WORK PADS TO AVOID EXISTING STONEWALL
UTILIZE EXISTING BREACH IN STONEWALL
STONEWALL TO BE REMOVED AND REBUILT AFTER CONSTRUCTION
UTILIZE EXISTING PAVED DRIVEWAY
TEMPORARY WETLAND IMPACT: +/-742 SQ.FT.
R169 Line
M183 Line
ScA
HeD
HcC
SfC
WfB
HcB
DeA
HcD
CfC
CsD
CsB
WfC
HdD
BzB
HdC
HcB
ScB
HdB
WdB
82
81
80
79
78
8.5
25
24
23
22
21
20

INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 830 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine GeoLibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

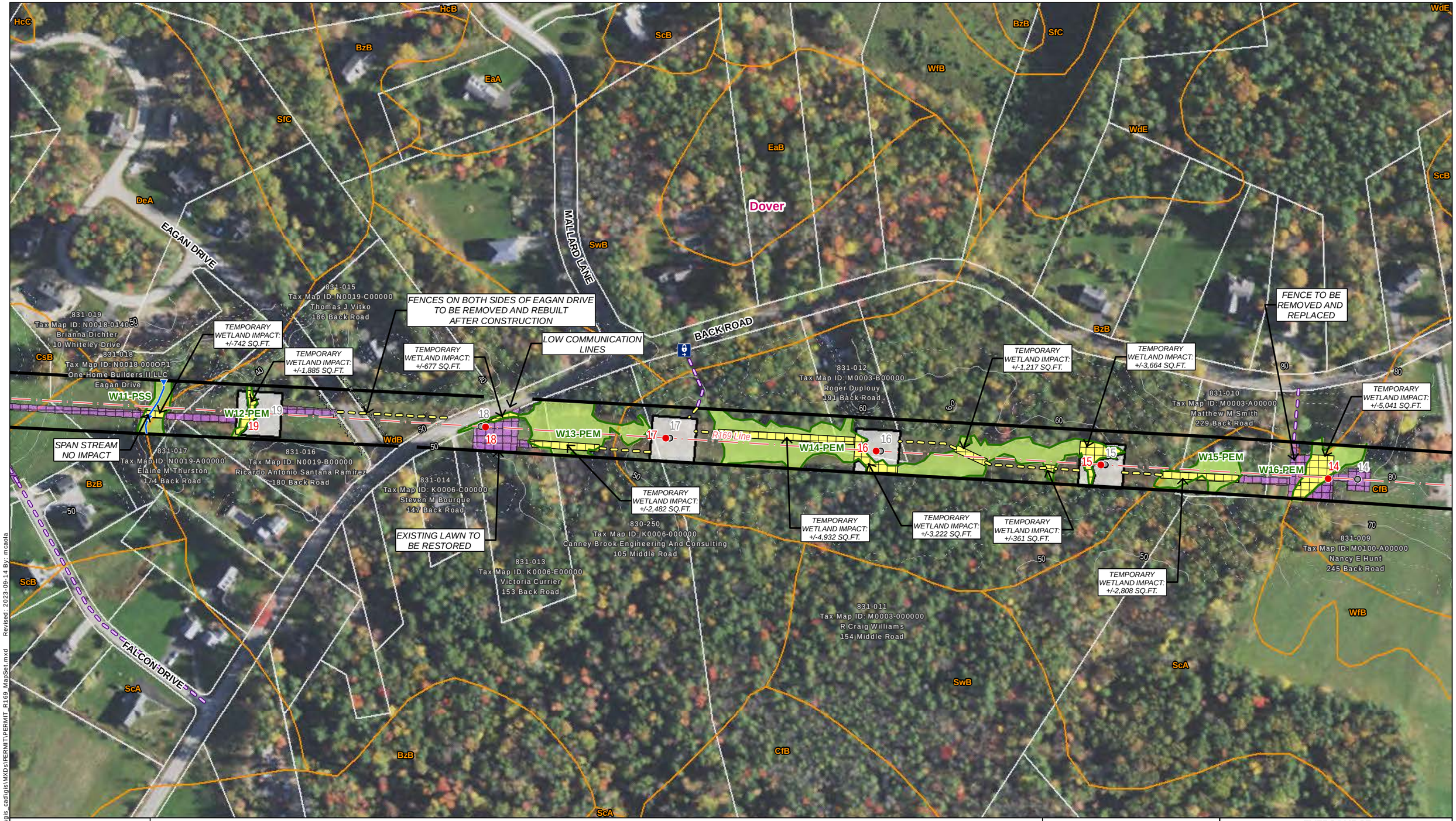
STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

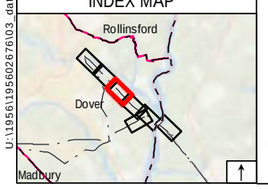
R169 Line Structure Replacement
PERMIT Map Set

Dover, NH	MAP SHEET 2 of 7
Date: September 14, 2023	Stantec

U:\119561195602676\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola



INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 830 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine Geolibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

R169 Line Structure Replacement
PERMIT Map Set

Dover, NH	MAP SHEET 3 of 7
Date: September 14, 2023	Stantec

U:\11956\11956026761\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

FENCE TO BE REMOVED AND REPLACED

TEMPORARY WETLAND IMPACT: +/-926 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-1,452 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-810 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-3,188 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-10,000 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-6,840 SQ.FT.

ACCESS FROM BACK ROAD

EXISTING LAWN TO BE RESTORED

SCHOONER DRIVE

CULLEN BAY ROAD

BACK ROAD

Dover

R169 Line

W16-PEM

W17-PEM

W18-PSS

831-008
Tax Map ID: M0100-B00000
Gregory W Hunt
295 Back Road

831-007
Tax Map ID: M0105-002000
Christopher D Berg
303 Back Road

831-004
Tax Map ID: M0093-B00000
Nancy Magiaras
362 Back Road

831-003
Tax Map ID: M0092-B00000
Cullen Bay Homeowners Association
Cullen Bay Road

831-005
Tax Map ID: M0105-000000
Eric W Thompson
321 Back Road

831-009
Tax Map ID: M0100-A00000
Nancy E Hunt
245 Back Road

831-006
Tax Map ID: M0105-001000
William C & Nancy Hunt Trustees
Back Road

831-001
Tax Map ID: M0092-A00000
Patricia Langs
Back Road

829-138
Tax Map ID: M0091-A00000
Townsquare Media Portsmouth LLC
292 Middle Road

WdE WdB BzB ScB CfB HcB WfB ScA SwB SfC HcC

INDEX MAP

Rollinsford
Dover
Madbury

Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 830 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine Geolibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

R169 Line Structure Replacement
PERMIT Map Set

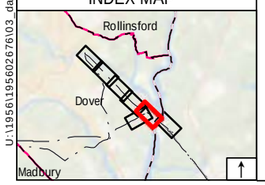
Dover, NH	MAP SHEET 4 of 7
Date: September 14, 2023	Stantec

U:\11956\19560267\6\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

SfC
HaA
WdB
SfC
WfB
SfC
DeB
CULLEN BAY ROAD
CULLEN BAY ROAD
Dover
Piscataqua River
Maine
New Hampshire
829-139
Tax Map ID: M0104-000000
Alan G. Dexter Trustee
Back River Road
831-001
Tax Map ID: M0092-A00000
Patricia Langs
Back Road
WdB
TEMPORARY WETLAND IMPACT: +/-2,022 SQ.FT.
831-002
Tax Map ID: M0092-H00000
Marie V Hebert Trustee
Cullen Bay Road
ScB
TEMPORARY WETLAND IMPACT: +/-10,000 SQ.FT.
831-003
Tax Map ID: M0092-B00000
Cullen Bay Homeowners Association
Cullen Bay Road
W18-PSS
S05
R169 Line
307 Line
SPAN STREAM AND WETLAND NO IMPACT
829-138
Tax Map ID: M0091-A00000
Townsquare Media Portsmouth LLC
292 Middle Road
TEMPORARY WETLAND IMPACT: +/-10,000 SQ.FT.
TEMPORARY WETLAND IMPACT: +/-6,840 SQ.FT.
WdA
WdE
S06
WdC
ScA
BzB
S07
WfC
Ta
EaB
WfB

U:\1956\195602676\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 330 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine Geolibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

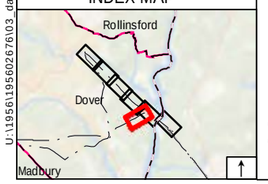
STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

R169 Line Structure Replacement
PERMIT Map Set

Dover, NH	MAP SHEET 5 of 7
Date: September 14, 2023	Stantec

INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 330 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine GeoLibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

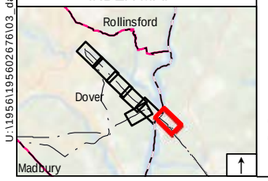
EVERSOURCE ENERGY

R169 Line Structure Replacement
PERMIT Map Set

Dover, NH	MAP SHEET 6 of 7
Date: September 14, 2023	Stantec

U:\11956\119560267\6\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 830 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- Rare Species Observation
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet

0 50 100 200 Feet

Map Notes:

Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet

Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine Geolibrary

Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

R169 Line Structure Replacement
PERMIT Map Set

Dover, NH and Eliot, ME	MAP SHEET 7 of 7
Date: September 14, 2023	Stantec

U:\11956\19560276\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

APPENDICES

Appendix A REPRESENTATIVE PHOTOGRAPHS

Photo 1. Representative view of the Cocheco River from structure 30. Stantec, June 8, 2023.

Photo 2. Representative view of the Cocheco River from Structure 29. Stantec, June 8, 2023.

Photo 3. Stream S01 flowing into Cocheco River near structure 29. Stantec, June 8, 2023.

Photo 4. Representative view of Cocheco River from structure 28. Stantec, June 8, 2023.

Photo 5. Representative view of the ROW and Wetland W05. Stantec, June 8, 2023.

Photo 6. Potential vernal pool PVP01, near structure 25. Stantec, June 8, 2023.

Photo 7. Representative view of the ROW and wetland W10 near structure 23. Stantec, June 8, 2023.

Photo 8. Representative view of the ROW and wetland W13 near structure 18. Stantec, June 8, 2023.

Photo 9. Representative view of the ROW and wetland in active pasture area near structure 14. Stantec, June 8, 2023.

Photo 10. Representative view of the ROW and open field side of wetland W18, near structure 8. Stantec, June 8, 2023.

Photo 11. Stream S05 in wetland W18 near junction of R169 and 307 line ROWs. Stantec, June 8, 2023.

Photo 12. Representative view of the ROW at the Piscataqua River, structure 5. Stantec, June 8, 2023.

Photo 13. Wetland W19 and existing access along 307 line ROW. Stantec, June 8, 2023.

Photo 14. Representative view of the ROW and wetland W21, near structure 4. Stantec, June 8, 2023.

Photo 15. Representative view of the ROW and wetland W23, near structure 3. Stantec, June 8, 2023.

Photo 16. Structure 2, near the Three Rivers Substation. Stantec, June 8, 2023.

Appendix B CORPS WETLAND DETERMINATION DATA FORMS

(Provided upon request)

Appendix C WETLANDS FUNCTIONAL ASSESSMENT WORKSHEETS

(Provided upon request)

Appendix D OBSERVED WILDLIFE

Common Name	Species Name
American crow	*Corvus brachyrhynchos*
Osprey	*Pandion haliaetus*
Eastern chipmunk	*Tamias striatus*
Red-tailed hawk	*Buteo jamaicensis*
White-tailed deer	*Odocoileus virginianus*
Wild turkey	*Meleagris gallopavo*

R169 Structure Replacement Project
Dover, New Hampshire

Conditional Use Permit Application

Part 2 of 5

December 22, 2023

Prepared for:

Public Service Company of New Hampshire d/b/a Eversource Energy
13 Legends Drive
Hooksett, NH 03106

Prepared by:

Stantec Consulting Services Inc.
30 Park Drive
Topsham, ME 04086

City of Dover, New Hampshire
CONDITIONAL USE PERMIT APPLICATION

[Revision Date: October 19, 2020]

Office Use Only	Project #:		Date Received:	
	Amount Paid:		Time Received:	

APPLICANT AND OWNER INFORMATION

Name of Applicant: Public Service Company of NH d/b/a Eversource Energy Telephone # 603-634-2243

Address of Applicant: 13 Legends Drive, Hooksett, NH 03106

E-Mail Address: Travis.Yandow@Eversource.com

Name of Property Owner (if different from applicant): same as above Telephone # same as above

Address of Property Owner: same as above

PROPERTY INFORMATION

Assessor's Map # 830-267 Lot(s) # K0001-A00001

Address of Property: Existing R169 transmission line ROW--McKone Lane to Eagan Drive, Dover, NH

Zoning District(s) R-40, R-12, CWD Overlay District(s) Wetland Protection and Conservation

Rural Residential, Medium Density, Residential, Urban Density Multi Residential, Cocheco Waterfront District

Existing Use of Property: Electric transmission line ROW

CONDITIONAL USE PERMIT INFORMATION

Type of Conditional Use Permit (Check All That Apply):

☒ Conservation District	☐ RCM Use Overlay District	☐ Gateway District
☐ Groundwater Protection	☐ Off-Street Parking and Loading	☐ Alternative Treatment Center
☒ Wetland Protection District	☐ Central Business District	☐ Heritage Residential District

Describe Proposed Use or Activity That Requires Conditional Use Permit and Describe Any Impacts:

Impact Area 2/Sheet 2: Eversource is proposing to replace four structures (19, 20, 21, and 22) along their existing R169 transmission line ROW in Dover. This segment of the ROW traverses a low density residential pasture and a large forested area south of Back Road. The old wooden structures require replacement due to age, cracking, leaning, and/or woodpecker damage. The existing structures will be replaced with new weathering steel structures to provide a more reliable electrical infrastructure. In Impact Area 2, the only impacts are associated with matting needed to bridge a perennial stream (S04). This results in a temporary wetland impact over the stream itself, as well as minor, temporary wetland buffer impacts on either side of the stream, and because perennial streams are also a resource of concern within the Conservation District, there are minor temporary impacts associated with the stream buffer for S04. In the Wetland Protection District, 742 square feet of temporary impact occurs in wetlands (timber matting), and 1,802 square feet of temporary impact is proposed in the buffer. In the Conservation District, 1,515 square feet of temporary impact is proposed in the buffer as a result of the matting. There will be no ground disturbance in these areas as matting will be utilized on both sides of the stream. However, where needed, there will be pre-construction installation of erosion/sediment control BMPs and monitoring for effectiveness. See attached application narrative and supporting documents for more details.

List Any Associated State or Federal Permits That Have Been or Will Be Applied For and Indicate Their Status: NHDES: Alteration of Terrain; Wetlands Utility Statutory Permit by Notification; Shoreland Permit by Notification; USACE Pre-application Construction Notification; USACE Section 408 Variance to Fed. Navigation Project.

Name of Professional That Prepared Plans: Tom Tetreau, NH Certified Wetland Scientist

Address 30 Park Drive, Topsham, ME 04086 Telephone #: 207-504-7231

Professional License #: 283 E-mail address: tom.tetreau@stantec.com

SIGNATURES

I/We hereby submit this application to the City of Dover Planning Board and attest that to the best of my knowledge all of the information on this application form and in the accompanying application materials and documentation is true and accurate. As applicant or as agent, I attest that I am duly authorized to act in this capacity.

Signature of Property Owner: _____ Date: 12/20/2023

Signature of Applicant (if different from owner): _____ Date: _____

Signature of Agent: _____ Date: 12/20/2023

AUTHORIZATION TO ENTER SUBJECT PROPERTY

I, and my successors, hereby authorize members of the Dover Planning Board, Planning Department and other pertinent City Departments and boards to enter my property for the purpose of evaluating this application, including performing inspections during the application phase, post-approval phase, construction phase and occupancy phase. It is understood that these individuals must use all reasonable care, courtesy, and diligence when on the property.

Signature of Property Owner: _____ Date: 12/20/2023

CITY OF DOVER CONDITIONAL USE
LIST OF ABUTTERS

Pursuant to RSA 676:4, the State Law of New Hampshire, the City of Dover is required to notify the applicant, abutters (including holders of conservation easements), and any professional whose seal is on the plan, of the public hearing by certified mail, return receipt requested. Staff will provide the abutter information, while the applicant must provide accurate contact information for the owner, applicant and professional agents representing the project.

Owner:

TAX MAP	LOT #	PROPERTY OWNER	MAILING ADDRESS
Multiple		Kurt Nelson, Eversource Energy	13 Legends Drive, Hooksett, NH 03106

Applicant (if different from owner):

APPLICANT NAME	APPLICANT COMPANY	MAILING ADDRESS

Surveyor and/or Engineer/Professional Agent:

NAME	COMPANY	MAILING ADDRESS
Tom Tetreau, NH Certified Wetland Scientist	Stantec	30 Park Drive, Topsham, ME 04086

Conservation Easement Holder:

TAX MAP	LOT #	NAME OF EASEMENT HOLDER	MAILING ADDRESS

Stantec Consulting Services Inc.
30 Park Drive, Topsham ME 04086-1737

December 22, 2023

Project/File: 195602676

Attention: Donna Benton
Planning Director
288 Central Avenue
Dover, NH 03820
d.benton@dover.nh.gov

Reference: Conditional Use Permit Application, Eversource Energy, R169 Structure Replacement Project, Dover, New Hampshire

Dear Ms. Benton and Planning Board Members,

On behalf of the Public Service of New Hampshire d/b/a Eversource Energy (Eversource), Stantec Consulting Services Inc. is filing five Conditional Use Permit (CUP) applications for necessary structure replacements as part of the R169 Structure Replacement Project (Project) in the City of Dover. Eversource has identified 18 existing structures along the existing R169 transmission line right-of-way (ROW) in Dover that require replacement due to deterioration from age, cracking, leaning, rot, and/or woodpecker damage.

Portions of the proposed Project are located within the Conservation District and the Wetlands Protection District, as described in the Dover Zoning Ordinance, Articles 170-27 and 170-27.1, respectively. CUPs may be granted within utility ROWs in the Conservation District in accordance with Article 170-27 Section C (1), and in the Wetlands Protection District in accordance with Article 170-27.1 Section F (1):

> "Article 170-27 Section C (1): *Conditional Use Permits may be granted by the PLANNING BOARD for the following uses within the* ***Conservation District****: (1) STREETs, roads and other access ways and utility rights-of-way, communications equipment, easements, including power lines and pipe lines, if essential to the productive use of land not so zoned and if so located and constructed as to minimize any detrimental impact of such uses upon the wetlands or other environmentally sensitive areas, where it is physically impossible to locate such ways over land not so zoned."*
>
> "Article 170-27.1 Section F (1): *Conditional use approval may be granted by the PLANNING BOARD (RSA 674:21II) after proper public notice and public hearing, for construction within the* ***Wetland Protection District*** *or buffer. Said construction may include but is not limited to, a road or other accessway, utility right-of-way, communication lines, power lines and pipelines, STRUCTUREs, and parking LOTs provided that the proposed construction complies with the following standards [emphasis added.]*

Therefore, Eversource is requesting the CUPs for activities and temporary impacts to wetland buffer areas within the Conservation District and the Wetlands Protection District and has outlined compliance with City of Dover zoning standards in the attached project narrative, which is being submitted in accordance with Articles 170-27 and 170-27.1 of the zoning ordinance. These five CUP applications (one per project map sheet) are being submitted, in total, for approximately 19,734 square feet (0.45 acres) of temporary tidal

Reference: Conditional Use Permit Application, Eversource Energy, R169 Structure Replacement Project

buffer resource impacts (to be restored) and 1,515 square feet (0.03 acres) of temporary stream buffer resource impacts (timber matting) in the Conservation District. In the Wetland Protection District, the following impacts are anticipated: approximately 56,885 square feet (1.31 acres) of temporary wetland impacts (matting), 26,838 square feet (0.62 acres) of temporary impacts within wetland buffers (matting), and 29,941 square feet (0.69 acres) of permanent impacts within upland wetland buffer areas for gravel access road and work pad construction.

The proposed work is for direct “in-kind” replacements of cracked and damaged poles, and no new pole locations are proposed within the R169 ROW in Dover. New structures will be in the same general footprint as existing and do not represent a significant footprint expansion within the Conservation District and the Wetlands Protection District or consist of substantial disturbances beyond those historically created by the transmission line. Disturbed areas will be protected with erosion and sediment control measures, and strategies will be implemented to stabilize and allow for re-vegetation of exposed soils.

This submittal includes a digital copy of each of the five CUP application packages. The filing fee of $1,000 ($200 per application x 5 CUP applications [one per project map sheet]) is included in the online submittal with this application. We understand that the City of Dover will calculate and invoice for abutter and notice fees; therefore, we have assumed these fees will be paid at a later date and have not included them with this application.

Additional state and federal wetland and shoreland permit applications are being prepared and submitted for the Project. Permit approvals will be forwarded to the City of Dover as required and/or requested.

Sincerely,

STANTEC CONSULTING SERVICES INC.

Jess S. Hunt
Senior Associate, Environmental Services
Phone: (603) 557-4662
jessica.hunt@stantec.com

Andrew Ackerman
Senior Environmental Scientist, Environmental Services
Phone: (603-413-7731
andrew.ackerman@stantec.com

Attachment: Conditional Use Permit Applications

cc. Travis Yandow and Kurt Nelson, Eversource

Conditional Use Permit Application

R169 Structure Replacement Project
Dover, New Hampshire

December 22, 2023

Prepared for:

Public Service Company of New Hampshire d/b/a Eversource Energy
13 Legends Drive
Hooksett, NH 03106

Prepared by:

Stantec Consulting Services Inc.
30 Park Drive
Topsham, ME 04086

Table of Contents

1.0 PROJECT INTRODUCTION AND PURPOSE 1

2.0 EXISTING CONDITONS 2

3.0 PROJECT DESCRIPTION AND PROPOSED CONDITIONS 3
3.1 LINE REBUILD: STRUCTURE REPLACEMENT, CONDUCTOR AND OPGW REPLACEMENT 3
3.2 ACCESS 4
3.2.1 Road Construction 4
3.2.2 Wetland and Upland Temporary Matting 4
3.2.3 Work Pad Construction 5
3.3 CONSTRUCTION SEQUENCE 5
3.4 BEST MANAGEMENT PRACTICES 6
3.4.1 Erosion and Sedimentation Control 6
3.4.2 Invasive Species Control Plan 6
3.4.3 Construction Observation and Post Construction Monitoring 6

4.0 OVERLAY ZONING DISTRICT IMPACTS AND ACTIVITIES 7
4.1 WETLAND PROTECTION DISTRICT 8
4.2 CONSERVATION DISTRICT 11
4.3 IMPACT AREAS 13
4.3.1 Impact Area 1 13
4.3.2 Impact Area 2 14
4.3.3 Impact Area 3 14
4.3.4 Impact Area 4 14
4.3.5 Impact Area 5 14

LIST OF FIGURES

Figure 1 USGS Site Location

R169 – Dover CUP Permit Map Set, Dover, NH

LIST OF APPENDICES

APPENDIX A WETLAND DELINEATION REPORT

1.0 PROJECT INTRODUCTION AND PURPOSE

Public Service Company of New Hampshire d/b/a Eversource Energy (Eversource) owns and maintains the R169 electrical transmission line that passes through Dover, New Hampshire. Eversource has identified 19 existing wooden structures that need to be replaced on the R169 line (18 in Dover, New Hampshire, and 1 in Eliot, Maine) due to age, cracking, leaning, rot, and/or woodpecker damage, which constitutes the proposed R169 Structure Replacement Project (Project). The existing wooden structures will be replaced with new, steel structures that adhere to current safety and electrical codes to provide more reliable electrical infrastructure.

The R169 Line right-of-way (ROW) begins at the Three Rivers Substation in Eliot adjacent to the Piscataqua River and traverses westerly over the river into Dover, then continues westerly through Dover approximately 3 miles for the remainder of the length of the transmission line to the Dover Substation.

Chapter 170 of the local Zoning Ordinance of the City of Dover, New Hampshire, establishes regulations and guides appropriate use of land. The existing utility ROW and proposed structure replacement activities in Dover bisect various city zoning districts, including the Rural Residential (R-40), Medium Density Residential (R-12), and Urban Density Multi Residential (RM-U) zoning districts and the Cocheco Waterfront District (CWD). The ROW and proposed Project activities also intersect two natural resource protection overlay districts—the Conservation District (per Article 170-27) and the Wetland Protection District (per Article 170-27.1). The purpose of these two overlay districts is to avoid and minimize development impacts to, and similarly conserve, local rivers, streams, wetlands, and flood-prone or steep, erosion-prone areas of Dover. The Project has taken into consideration each the objectives of these overlay districts in the development of construction plans and activities around the identified sensitive resources.

The proposed Project activities require a Conditional Use Permit (CUP) from the City of Dover (hereafter, City) Planning Board for those activities that occur within the Conservation District and the Wetland Protection District per the City's Local Zoning Ordinance (as amended, September 2022) and subsequent guidance from the City Planning and Community Development Department. This CUP application presents the applicable information associated with the Project. In addition to the 18 proposed replacement structures in Dover, Eversource previously identified five utility structures for replacement along the R169 line. A CUP application (#406-22) for the replacement of those five structures was submitted to the City in July 2022 and approved by the Planning Board on July 21, 2022. Replacement of those five structures has been completed.

In accordance with NH RSA 482-A:3 XV, routine utility maintenance work is exempt from the standard NH wetland permit process. However, Eversource is required to submit a Utility Maintenance Activity Statutory Permit-by-Notification, Shoreland Permit-by-Notification, and Alteration of Terrain permit application to the New Hampshire Department of Environmental Services (NHDES) to cover the temporary wetland impact associated with use of timber matting within wetlands required to

complete the proposed structure replacement work, impacts within the developed portions of the Protected Shoreland of the Cocheco River, and proposed upland ground disturbance.

2.0 EXISTING CONDITONS

The existing cleared R169 ROW varies from approximately 100 feet (ft) in most areas to 250 ft wide where the ROW is shared with additional transmission lines near the Piscataqua River. The Project ROW consists of Eversource fee-owned property or Eversource-controlled easements. From the Piscataqua River to the Dover Substation, the ROW traverses westerly through forested, residential, and agricultural landscapes. The ROW primarily crosses rural areas and local roads, as well as the Cocheco River and the Piscataqua River. The topography varies from flat lowlands and fields to undulating hills and steep side slopes. Elevations range from 0 to 90 ft above mean sea level. Soils within the ROW consist primarily of loam and silty loam (see attached CUP plans).

The open upland natural communities in the ROW consist of early successional shrub, sapling, and herbaceous species. Characteristic woody vegetation includes gray birch (*Betula populifolia*), quaking aspen (*Populus tremuloides*), red maple (*Acer rubrum*), sheep-laurel (*Kalmia angustifolia*), late lowbush blueberry (*Vaccinium angustifolium*), white meadowsweet (*Spiraea alba*), Allegheny blackberry (*Rubus allegheniensis*), American hazelnut (*Corylus americana*), red oak (*Quercus rubra*), and red raspberry (*Rubus idaeus*). Commonly observed herbaceous vegetation in the ROW includes little Canada mayflower (*Maianthemum canadense*), wrinkle-leaf goldenrod (*Solidago rugosa*), Canada goldenrod (*Solidago canadensis*), bracken fern (*Pteridium aquilinum*), hay-scented fern (*Dennstaedtia punctilobula*), wild strawberry (*Fragaria virginiana*), bristly dewberry (*Rubus hispidus*), Kentucky blue grass (*Poa pratensis*), and other common grass and wildflower species. Non-native invasive species such as rambler rose (*Rosa multiflora*), Japanese barberry (*Berberis thunbergii*), Morrow's honeysuckle (*Lonicera morrowii*), and glossy false buckthorn (*Frangula alnus*) are present in moderate abundance.

Stantec consulted with the New Hampshire Natural Heritage Bureau, the New Hampshire Fish and Game Department, and the US Fish and Wildlife Service as required for NHDES and US Army Corps of Engineers (USACE) permitting. There were three state-listed wildlife species, three state-listed plant species, and three federally listed wildlife species noted in the vicinity of the Project. Eversource proposes to follow agency recommendations and permit conditions as part of this Project and will conduct recommended surveys as needed.

One potential vernal pool and 23 wetlands were identified within the ROW during a delineation conducted by Stantec (Tom Tetreau, New Hampshire Certified Wetland Scientist #283) in June 2023; results of the wetland survey can be found in Appendix A.

The 307 transmission line ROW intersects the R169 ROW from the south near proposed structure 6 to the Piscataqua River; the nearby 307 line ROW will be utilized for access only. Existing access roads traverse portions of both ROWs. These access roads are unpaved with mostly a loamy sand base with occasional stretches consisting of previously installed stone. The access roads are generally 8 to 12 ft wide in most areas.

Routine vegetation maintenance is performed along the R169 ROW on an approximate 4- to 5-year cycle. The last vegetation maintenance was performed along portions of the R169 ROW in summer 2023. Trees and shrubs capable of growing to heights that could interfere with conductors are trimmed and allowed to regenerate until the next maintenance cycle. Prior to the start of construction, areas around proposed access roads and pads will need additional mowing within the ROW.

3.0 PROJECT DESCRIPTION AND PROPOSED CONDITIONS

3.1 LINE REBUILD: STRUCTURE REPLACEMENT, CONDUCTOR AND OPGW REPLACEMENT

The proposed Project includes replacement of 18 existing wooden transmission line structures along the R169 line in Dover. The replacement (new) structures will be within 10 ft of the previous structure location, with two exceptions: proposed structure 13 will be approximately 140 ft from the existing structure location to avoid wetland and impacts, and proposed structure 20 will be approximately 40 ft from the existing location. A majority of the new structures will be approximately 5 to 10 ft taller than the previous structures to comply with current electrical standards. The one structure proposed for a reduction in height is structure 27, within the shoreland of the Cocheco River, which will be reduced from the current 135 ft to 120 ft. The shorter structure allows for a reduced construction footprint and minimizes potential impacts to the sensitive shoreland area.

The structure replacement process consists of drilling holes near the existing structures and installing a caisson, also referred to as a can, below the ground surface. The new structure is installed in the can and backfilled with clean, suitable rock or gravel material. Spoils produced from drilling the hole will be disposed of in an approved upland location away from wetland areas and will be stabilized with an appropriate conservation/contractor's seed mix and weed-free straw mulch. Some replacement structures may require anchors. Anchors will be installed by excavating trenches, installing concrete block anchors, and backfilling trenches. If soil conditions allow, screw anchors may be installed to minimize ground disturbance. Temporary swamp mats (i.e., matting) will be utilized to access structures located within delineated wetlands or wetland areas that must be crossed for access. Mats will also be used on some occasions to minimize impacts to maintained yards or farmed upland areas. Once the new structure is installed and stable, the wires from the old structure will be transferred to the new structure. Old structures will be cut and removed from the ground in upland locations. To minimize ground disturbance, old structures in wetlands are typically cut flush with the ground surface. In some cases, the bottom of the old structure may be able to be pulled from the wetland with minimal disturbance to the wetland. All construction materials and old structure pieces will be removed and disposed of off-site at an approved disposal facility.

Following completion of the structure replacement and wire work, temporary timber construction mats will be removed. Disturbed wetland areas will be restored and stabilized with weed-free straw mulch. Temporarily disturbed upland areas will also be restored and stabilized through seeding and mulching. Permanently disturbed wetland buffer areas will remain as permanent features. Seed and mulch will be

applied along the shoulders and side slopes of the access roads as necessary and the established access roads will be left in place, with the exception of the area around proposed structures 27 and 28, which will be entirely restored. The work pads and new access road between proposed structures 27 and 28 will be re-contoured to the existing grade, covered with topsoil that was stockpiled during the initial grading, and stabilized with seed and mulch.

Minor tree clearing is proposed as maintenance within the existing access road off Cocheco Street and within the existing ROW near proposed structures 27 and 28 as part of the Project. The Project will submit a Protected Shoreland Permit by Notification to address proposed selectively cut trees in the upland shoreland areas.

3.2 ACCESS

The proposed Project utilizes existing access roads within the R169 line ROW and existing access within the 307 line ROW wherever possible. The majority of the existing access roads are made up of dirt or gravel areas and are proposed to be improved, as necessary, through the addition of clean stone as part of the Project to allow for construction vehicle access. Proposed access roads are shown on the attached map set. Access road entrances are located off local roadways and utilize existing entrances wherever possible. Driveways permits are not anticipated to be required from the City. There are no state-owned roads in the project area; therefore, temporary driveway permits from the New Hampshire Department of Transportation will not be required for construction. The proposed access roads were sited to minimize ground disturbance and temporary wetland impacts to the greatest extent practicable while providing safe and efficient access to the existing structures. Timber matting will be used to cross all wetland and stream resources that cannot be avoided completely.

3.2.1 Road Construction

Proposed upland access road improvements include construction of approximately 12- to 16-ft-wide gravel and stone roads within the ROW and in some cases adjacent to the ROW. The roads will provide access to existing utility structures for replacement activities. The improved access roads will provide reliable, permanent access to utility infrastructure during future maintenance or emergency repairs. Where possible, the proposed access roads will be located on top of existing dirt roads or trails. If no existing routes are available or suitable, a new road will be constructed. Minor grading may be necessary to remove large boulders and create a flat surface for the new rock or gravel.

Project plans require tree removal along the widening the existing access road off Cocheco Street to proposed structures 27 and 28 to a width of 12 ft to accommodate equipment for the structure replacements. Tree removal at this location will occur within the existing utility ROW and along the existing access road on Eversource property and will be conducted between November 1 and April 14 to avoid potential impacts to federally listed wildlife species if present.

3.2.2 Wetland and Upland Temporary Matting

Access through maintained fields and private property within uplands and delineated wetlands in the Project area will utilize temporary timber construction mats to minimize ground disturbance and prevent

rutting. Where necessary in overly saturated conditions, runners (mats placed parallel to the direction of travel) will be placed on the wetland surface prior to setting the top, perpendicular layer of mats. This will help reduce settling and overall wetland disturbance.

3.2.3 Work Pad Construction

The proposed Project includes construction of 18 structure replacement work pads approximately 100 ft by 100 ft each, with some exceptions. With the exception of work pads located within wetlands, upland work pads will be constructed using clean stone. The work pads will be top dressed with compacted 1.5- to 3-inch-diameter clean stone. After the structure replacement work is complete, restoration of upland work pads will consist of utilizing stockpiled topsoil to reduce work pads to approximately 30 ft by 60 ft. Restored areas will be stabilized with seed and mulch. Proposed work pads located in wetland areas will be constructed using temporary timber construction mats and will be removed upon completion of the work.

3.3 CONSTRUCTION SEQUENCE

The general Project construction sequence will be:

1. Installation of appropriate signage along public roads near construction entrances;
2. Installation of erosion control devices, as needed;
    a. Erosion control practices will follow the *Best Management Practices Manual for Utility Maintenance in and Adjacent to Wetland and Waterbodies in New Hampshire* (Utility BMP Manual) published by the New Hampshire Department of Natural and Cultural Resources (March 2019).
3. Placement of construction mats in wetlands for access roads and work pads;
4. Grading and improvements of upland access roads and work pads;
5. Stabilization (seed and mulch) of exposed soils on created side slopes;
6. Replacement of structures:
    a. Drill new structure holes;
    b. Install new poles and structure components;
    c. Transfer electrical lines from old structure to new structure; and
    d. Remove and haul away old structure.
7. Clean up excess/stockpiled material at work pads;
8. Smoothing/grading upland work pads and stabilizing and restoring with seed and mulch as necessary;
9. Removing construction mats from wetland areas and stabilizing/restoring disturbed wetland areas with weed-free straw mulch; and

10. Stabilization, restoration, and clean up staging areas and entrance points.

Provided necessary permits are in place and to the extent possible, work would begin in April 2024 and continue through fall 2024. Entrances, access roads, and work pads will be created prior to structure replacement work. New structure holes will likely be drilled prior to mobilization of structure replacement equipment (cranes, bucket trucks). Installing new poles and transferring wires will be completed prior to moving on to the next structure. Multiple structure replacement crews may be working in different areas to expedite the process. Removal of mats and restoration will occur as individual work areas are completed.

3.4 BEST MANAGEMENT PRACTICES

3.4.1 Erosion and Sedimentation Control

Work will be conducted in accordance with the Utility BMP Manual. Following these BMPs will minimize and avoid impacts to wetland and stream resources and the surrounding upland areas to the greatest extent practicable.

Perimeter erosion controls consisting of silt fence, straw wattles, mulch, and straw bales will be installed as necessary around the work areas to minimize potential impacts to adjacent resource areas. Water bars, also known as diversion ditches, will be installed along access roads with steep slopes, where necessary, to prevent water from traveling long distances down the road causing erosion. Water bars will direct water off the road into adjacent upland areas. Exposed soil created during construction will be stabilized with seed and mulch as soon as possible after active work in the area is complete. No equipment or material will be stored within wetland areas.

3.4.2 Invasive Species Control Plan

Due to the developed landscape surrounding the majority of the R169 line, invasive plant species occur within the ROW and were observed during field surveys. Contractors will follow the invasive species recommendations in the Utility BMP Manual to help prevent the spread of invasive species, including inspection and cleaning of equipment and contractor training. Equipment, including construction mats, brought to the Project area will be inspected by the contractor and/or environmental monitor, and if plant material or soil is present, the equipment will be cleaned and dried prior to use on the Project. Contractors will be familiar with identification of common invasive species and will be required to clean mats and equipment prior to their use elsewhere. If possible and without increasing wetland impacts, the contractors may also make slight shifts in access roads or work pads to avoid invasive species locations.

3.4.3 Construction Observation and Post Construction Monitoring

During construction, Eversource will contract an environmental monitor to perform routine construction observation visits. The environmental monitor will inspect the Project area for compliance with the Utility BMP Manual and applicable Project permits and conditions. Construction observation visits will occur at least once per week and/or after a significant rainfall (0.5 inches or greater) or snow melt event. Under the National Pollutant Discharge Elimination System, Eversource will file a Notice of Intent and

Stormwater Pollution Prevention Plan (SWPPP) under the U.S. Environmental Protection Agency's Construction General Permit. Construction observation visits and associated reporting will follow the SWPPP and Construction General Permit guidelines and be performed by a qualified individual familiar with the SWPPP, Utility BMP Manual, and Project specific permit conditions.

A series of post-construction monitoring visits in the Project area will be performed by a qualified environmental scientist to document that disturbed areas are properly stabilized and vegetation is beginning to regrow. Site restoration will be considered successful when there is at least 85% cover by native or non-invasive herbaceous plant species within the restored portions of the ROW, including restored wetland areas. This does not include gravel work pads or access roads that existed prior to construction or were created during construction, with the exception of the gravel work pads and road for proposed structures 27 and 28, which will be restored to natural grade, topsoil spread, and stabilized with seed and mulch. The environmental scientist will prepare a report following each post-construction monitoring visit that includes representative photographs and corrective actions (if applicable). Once the disturbed uplands and temporarily impacted wetlands within the Project area are determined to be permanently stabilized, post-construction monitoring will be considered complete, and a Notice of Termination will be filed under the U.S. Environmental Protection Agency's Construction General Permit.

4.0 OVERLAY ZONING DISTRICT IMPACTS AND ACTIVITIES

The ROW and proposed Project activities intersect natural resource protection overlay districts in Dover, including the Conservation District and the Wetland Protection District. The following summarizes the Project-specific components in the respective overlay districts.

Proposed temporary impacts to wetlands were minimized to the maximum extent practical during project planning. This included modifications to ROW access, reducing the size and positioning of the proposed utility poles, the utilization of timber matting and/or tracked equipment, and the location and orientation of work pads. Timber matting will be installed to completely span streams, where necessary, to avoid impacts to the stream bed and banks.

For the purposes of this CUP, resource impacts have been divided into 5 Impact Areas and corresponding map sheets, as shown per wetland and stream in the attached map set and in Table 1. Given the overlapping overlay districts and associated buffers, impacts were quantified in Table 1 below by direct resource impact and overlay district buffer impacts. The district buffers were established by taking the farthest buffer (such as when a stream channel is encompassed by a surrounding wetland, the larger Conservation District buffer was used).

Table 1: City of Dover Proposed Wetland Protection and Conservation District Impacts

District	Resource Impacts (SF)	Impact Area 1 (Map Sheet 1)	Impact Area 2 (Map Sheet 2)	Impact Area 3 (Map Sheet 3)	Impact Area 4 (Map Sheet 4)	Impact Area 5 (Map Sheet 5)
Wetland Protection District	Temporary Wetland Impact	-	742	23,279	3,188	29,676
	Temporary Wetland Buffer Impact	5,526	1,802	16,716	1,852	942
	Permanent Wetl and Buffer Impact*	-	-	29,941	-	-
Conservation District	Temporary Area Subject to Tidal Action Buffer Impact	19,734	-	-	-	-
	Temporary Stream Resource Buffer Impact	-	1,515	-	-	-
Overlapping Districts		5,526	773	-	-	-
	Total	**25,260**	**4,059**	**69,936**	**5,040**	**30,618**

*Based on 12-ft disturbance area for new gravel access
Overlapping Districts are illustrative of how much districts overlap and not part of total for each Map Sheet.

4.1 WETLAND PROTECTION DISTRICT

The Wetland Protection District includes all areas of wetlands and 50-ft wetland buffers, as defined in Dover Zoning Ordinance, Article 170-27.1. Project activities subject to a CUP that are within the Wetland Protection District are limited to temporary placement of timber mats in wetlands and at stream crossings and the creation of stone work pads and access road improvements in wetland buffer areas. New structures will be placed in the same general location as the existing structures, as described in section 3.1 above. The proposed access roads were sited along existing roads or trails wherever possible.

The Project will meet the following Wetland Protection District standards for Conditional Use Approval, as outlined in the Dover Zoning Ordinance, Article 170-27.1F(1).

(a) *Practicable Alternative: There is no practicable alternative that would have a less adverse impact on the area.*

The Project site is an existing transmission line within a utility ROW. The proposed structure replacement work is necessary to maintain reliability and safe operation of the existing R169 line. Alternative locations would require creation of a new ROW, and increased impacts to resources and the surrounding landscape and were not considered. The replacement structures must be located on the alignment of the existing transmission line and must be located within the existing ROW. The Project has been designed to reduce the footprint of the construction as much as

possible. For example, the proposed access route between structures 14 and 15 was designed to utilize a narrow upland area on the south side of the ROW to minimize wetland impacts as much as possible while maintaining required clearances for working equipment from overhead wires and adjacent tree lines. For example, in addition to reducing the height and footprint of proposed structure 27 near the Cocheco River, the Project proposes to move access roads to uplands where possible, completely restore impacted areas adjacent to the Cocheco River, smooth/grade upland work pads, and stabilize and restore with seed and mulch as necessary.

Upland work pads, other than those near the Cocheco River, are typically restored to an approximately 30-ft by 60-ft size. Topsoil pushed to the sides during the initial construction will be used to cover the work pads. Exposed soils will be stabilized with seed and mulch. Temporary construction mats will be removed from wetland areas as soon as work is complete and wetland areas will be stabilized/restored with weed-free straw mulch, if necessary. Matting will be removed in a similar manner to how it was installed.

(b) *Avoidance: The potential impacts have been avoided to the maximum extent practicable. The APPLICANT will demonstrate by plan and example that the proposed construction represents the least impacting alternative.*

The proposed structure replacements have been designed to avoid permanent fill and loss of wetland and stream areas by utilizing upland areas as much as possible and using temporary construction mats. The mats will result in minimal temporary disturbance of the shrub and herbaceous vegetation underneath, but the vegetation is expected to quickly recover following removal of the construction mats after construction is complete. Mats will be used to span streams and will not disturb streambanks or modify hydrology.

Wetlands will be protected from stormwater runoff through erosion and sedimentation control measures, and exposed soils will be stabilized in accordance with the measures discussed in Section 3.4.1. Additionally, appropriate siltation prevention measures will be implemented and inspected during construction and post-construction to prevent erosion, siltation, and turbidity. The erosion control methods and materials will follow the Utility BMP Manual. Perimeter controls (silt fence, straw bales, straw wattles, etc.) will be installed along the limits of work to protect adjacent resources and off-site area. If necessary, other BMPs including stone check dams and dewatering basins will be used to control and treat stormwater and prevent runoff to abutting or downslope properties.

The tidal wetland, wetland W02 associated with the Cocheco River, will be completely avoided by construction activities. Work will occur within the adjacent upland only, and erosion and sedimentation controls will be installed prior to ground disturbance to protect the wetland and river.

(c) *Minimization: Any unavoidable impacts have been minimized. No reasonable Alternative to the proposed construction exists which does not impact a wetland or which has less detrimental impact on a wetland. Design, construction and maintenance methods will be*

prepared by a registered engineer to minimize detrimental impacts to the wetlands and will include restoration of the site as nearly as possible to its original grade.

The Project is designed to replace existing infrastructure in an existing and maintained utility ROW. The Project does not propose any permanent impacts directly to surface waters or wetlands. Areas where district buffers are impacted have been reduced by using upland matting adjacent to wetlands in some areas and by reducing the overall footprint of structure work pads in others. Additionally, where ground disturbance and work area construction will occur near wetlands, appropriate erosion prevention measures will be implemented during construction and post-construction to prevent the migration of sediment laden runoff from reaching the adjacent wetlands. These areas will be inspected regularly for correct installation and to confirm that they remain effective erosion prevention measures.

The erosion control prevention and sediment control methods and materials will follow the Utility BMP Manual. Perimeter controls (silt fence, straw bales, straw wattles, etc.) will be used to protect adjacent resources and off-site areas. If necessary, other BMPs including stone check dams and dewatering basins will be used to control and treat stormwater and prevent runoff to abutting or downstream properties.

Temporary wetland and wetland buffer impacts will be avoided and minimized by following the Utility BMP Manual. This includes:

- Using wooden construction mats to support machinery in wetlands;
- Removing and restoring temporary impacts to wetlands, if necessary;
- Smoothing rutted areas, seeding as required, and mulching with weed-free straw;
- Using erosion and sediment controls as needed where ground disturbing activities are adjacent to wetland areas;
- Requiring contractors to follow practices outlined in the Utility BMP Manual to help prevent the spread of invasive species; and
- Conducting weekly inspections to monitor compliance with minimization measures and providing any site restoration recommendations as needed.

The new structure locations and associated structure components were designed by Eversource's engineers. Work and access roads were designed based on the results of the wetland delineation performed by a New Hampshire Certified Wetland Scientist and a constructability field review by Eversource engineers and construction personnel.

(d) Mitigation: If the APPLICANT is required by State rules to prepare a compensatory mitigation plan, the APPLICANT shall provide the Conservation Commission and PLANNING BOARD with one copy each of said plan for their review.

The Project will require temporary matting impacts to wetlands but will not result in permanent loss of any wetland area or permanent alterations to the wetland hydrology or associated vegetation; therefore, a compensatory mitigation plan is not proposed for the work in any of the

five Impact Areas. Additionally, the applicant has consulted with the NHDES Wetlands Bureau, which has concurred with the minimum impact determination for the R169 Project.

(e) *Approval for the wetlands impact has been received from the NHDES Wetlands Bureau pursuant to Section G (3), below.*

A Wetlands Utility Maintenance Activity SPN will be submitted for the Project. On November 16, 2023, Eversource met with the NHDES Wetlands Bureau and the USACE. During this meeting, a determination was made that the Project qualified for a 'minimum impact' since there are no permanent impacts to delineated wetlands, vernal pools, streams or other sensitive resources associated with the Project and Eversource will minimize temporary impacts and restore permanent upland impacts. The SPN application and NHDES and USACE permit approvals will be forwarded to the City as required and/or requested. Additional pending approvals are listed in Section 4.2 below.

4.2 CONSERVATION DISTRICT

The Conservation District includes water bodies, rivers, streams, swamps and marshes subject to tidal action and those areas within a minimum of 100 ft of each, as defined in Dover Zoning Ordinance, Article 170-27. The Conservation District also includes specific lots as defined in Article 170-27, as well as areas with slopes 20% and more than 2,000 square feet (sf) of contiguous area, neither of which is located within the Project area. Project activities subject to a CUP that are within the Conservation District are limited to temporary placement of timber mats at stream crossings and creation of stone work pads and access road improvements in river and stream buffer areas. New structures will be placed in the same general location as the existing structures. The proposed access roads were sited along existing roads or trails wherever possible.

The Project will meet the following Conservation District standards for Conditional Use Approval, as outlined in the Dover Zoning Ordinance, Article 170-27.C(2).

(a) The APPLICANT shall demonstrate that the proposed use is essential to the productive use of land not in the district; is located and constructed to minimize any detrimental impact of such use upon the surface waters or other environmentally sensitive areas, where it is physically impossible to locate such use on land not in the district; and economic advantage alone shall not be deemed a sufficient reason for such proposed use.

Approval of this CUP application would allow Eversource to maintain critical infrastructure necessary to provide the public with reliable electricity. The existing structures and line are currently located within the Conservation District and would remain as such following the structure replacements. The proposed Project is in the public's interest (versus economic advantage to Eversource) because the structure replacements will allow for the continued supply of reliable electricity to Eversource's customers. The avoidance and minimization efforts described above in section 4.1 for the Wetland Protection District also apply to the Conservation District.

(b) *A soil erosion and sedimentation control plan is submitted and followed to verify the planned avoidance of sediment pollutant runoff to bodies of water. This plan will address the following (if applicable), but should not be limited to:*

(i) stabilization of exposed soils and soil stockpiles;
(ii) protection of steep slopes from erosion;
(iii) construction site waste management;
(iv) inspection and maintenance of runoff control measures (BMPs);
(v) minimization of land clearing;
(vi) stabilization of drainage ways;
(vii) installation of perimeter controls;
(viii) installation of sediment trapping devices; and
(ix) storm drain inlet protection.

Erosion and sedimentation control practices will follow the Utility BMP Manual). Typical erosion and sedimentation controls devices used within the ROW may consist of silt fence, straw wattles, stone check dams, and/or hay and weed-free straw mulch stabilization. Erosion and sedimentation control notes and details are included on the attached map set. Approximate locations of erosion and sedimentation controls are shown around proposed work areas and access roads on the attached map set. Installation and maintenance of erosion and sedimentation controls will occur throughout the construction phase of the project. The controls will be inspected regularly by Eversource's contractors and environmental monitors and maintained and/or replaced as needed. Additional details are provided in sections 3.3 and 3.4 above.

(c) Necessary state and federal approvals have been applied for. Said permits shall be received prior to the issuance of the Conditional Use Permit by the Planning and Community Development Department.

Regulatory permits, approvals, and notifications required for the proposed Project are summarized below. The City will be provided copies of permit approvals when they are received. Given the review periods associated with some of the required permits, Eversource requests that the City condition approval of the CUP so that permit may be provided as they are received, rather than prior to the issuance of the CUP. The following state and federal permits are anticipated to be required for the Project:

- NHDES Utility Statutory Permit by Notification (submitted)
- NHDES Protected Shoreland Permit by Notification (pending submission)
- NHDES Alteration of Terrian Permit (submitted)
- USACE Pre-Construction Notification (pending submission)
- USACE Section 408 Variance Approval (pending)

(d) *A written review by the Conservation Commission of the environmental effects of the proposed use upon the area in question has been submitted. The Commission's review shall address the following, but is not limited to:*

(i) attempted avoidance of the impact;

(ii) minimization of the impact;

(iii) planned mitigation of the effects of the impact; and

(iv) efficacy of the soil erosion and sedimentation control plan.

Watercourses and surface waters have been avoided to the extent possible, and no alterations of banks or natural geomorphology are proposed. Temporary construction mats will be used to bridge, and avoid, stream areas; mats will be removed following construction. Conditions or requests for information related to environmental effects made by the local Conservation Commission will be documented and applied to the project where feasible.

4.3 IMPACT AREAS

Anticipated temporary and permanent impacts within the Conservation District and Wetland Protection District are summarized by Impact Area in Table 1 and described per area below. Each area corresponds with respective map sheets (Impact Area 1 corresponds with Map Sheet 1, etc.) in the attached CUP permit map set. Temporary impacts include timber matting and areas that will be restored post-construction, and permanent impacts within buffers are for gravel access road and work pad construction. Most of the impacts across the five impact areas (Map Sheets 1–5) occur in the Wetland Protection District and of those impacts 64% are temporary; the remaining 36% are permanent impacts in upland wetland buffer areas (see Impact Area discussions below for more details).

4.3.1 Impact Area 1

Within the Wetland Protection District, anticipated impacts in Impact Area 1 include approximately 5,526 sf of temporary impacts within wetland buffer areas of wetland W02 (overlaps 100% with areas subject to tidal action in the Conservation District), and approximately 19,734 sf of temporary impacts within the buffer area of areas subject to tidal action in the Conservation District. These temporary impacts associated with the creation of access roads and work pad construction are necessary to complete the replacement of proposed structures 27 and 28. Disturbances associated with these structure replacements will be fully restored once construction is complete, and no permanent impacts are anticipated in either District.

Impacts were avoided and minimized to the greatest extent practicable by minimizing the length of the new access road, locating access roads and work pads outside of wetland boundaries and wetland buffers, where possible, utilizing existing disturbances/access roads, and reducing the construction footprint and restoring areas along the Cocheco River shoreland that are within the Wetland Protection and Conservation Districts.

4.3.2 Impact Area 2

Within the Wetland Protection District, anticipated impacts in Impact Area 2 include approximately 742 sf of temporary wetland impacts (i.e., timber matting) and approximately 1,802 sf of temporary impacts in wetland buffer areas to cross wetland W11 and stream S04 along the access route between proposed structures 18 and 19. Within the Conservation District, approximately 1,515 sf of temporary impacts in stream buffer areas are anticipated. Overlapping buffer areas include approximately 773 sf of temporary impacts. Areas within and surrounding the Districts are existing fields and residential areas, and temporary upland matting will be used to avoid ground disturbance at the landowner's request. No permanent impacts are anticipated within either District.

4.3.3 Impact Area 3

Within the Wetland Protection District, anticipated impacts in Impact Area 3 include approximately 23,279 sf of temporary wetland impact (i.e., timber matting), approximately 16,716 sf of temporary impact in wetland buffer areas, and approximately 29,941 sf of permanent impact in wetland buffer areas to create the access road and work areas associated with proposed structures 13 through 18, across wetlands W12 through W16.

Impact Area 3 is the only Impact Area on the R169 line where upland buffer area impacts are proposed to be permanent (see Table 1 and Map Sheet 3 of 5). The permanent impacts are a result of the proposed 100-ft by 100-ft gravel work pads around proposed structures 14, 15, 16, and 18. In the case of the pads at proposed structures 14, 15, and 18, a portion of the 100-ft by 100-ft pad area will be gravel, with the remaining pad area constructed using temporary wetland matting. In these three locations, it is likely that the temporary matting will cover an even greater proportion of the pad area. Proposed structure 16 is the sole location where the entire pad is proposed to be gravel, and this location is entirely upland. No temporary or permanent impacts are anticipated within the Conservation District in Impact Area 3.

4.3.4 Impact Area 4

Within the Wetland Protection District, anticipated impacts in Impact Area 4 include approximately 3,188 sf of temporary wetland impact (i.e., timber matting) and approximately 1,852 sf of temporary impact in wetland buffer areas. Temporary impacts to wetlands and buffers include access across wetland W17 between proposed structures 9 and 10, and work areas and access in wetland W18 at proposed structure 7; no permanent impacts are anticipated due to landowner requests to use upland matting to protect existing field areas. No Conservation Districts are present in Impact Area 4.

4.3.5 Impact Area 5

Within the Wetland Protection District, anticipated impacts in Impact Area 5 include approximately 29,676 sf of temporary wetland impact (i.e., timber matting) and approximately 942 sf of temporary impact in wetland buffer areas to create work areas and access in wetland W18 associated with proposed structure 6; no permanent impacts are proposed. The Project will utilize an existing gravel access road from the 307 line ROW to proposed structure 6 to traverse through the Conservation Districts associated with

streams S05, S06, and S07 to avoid temporary and permanent impacts within those buffers. No work is proposed within the Conservation District associated with the Piscataqua River.

PHOTOGRAPHS

R169 STRUCTURE REPLACEMENT PROJECT
CUP APPLICATION - REPRESENTATIVE PHOTOGRAPHS

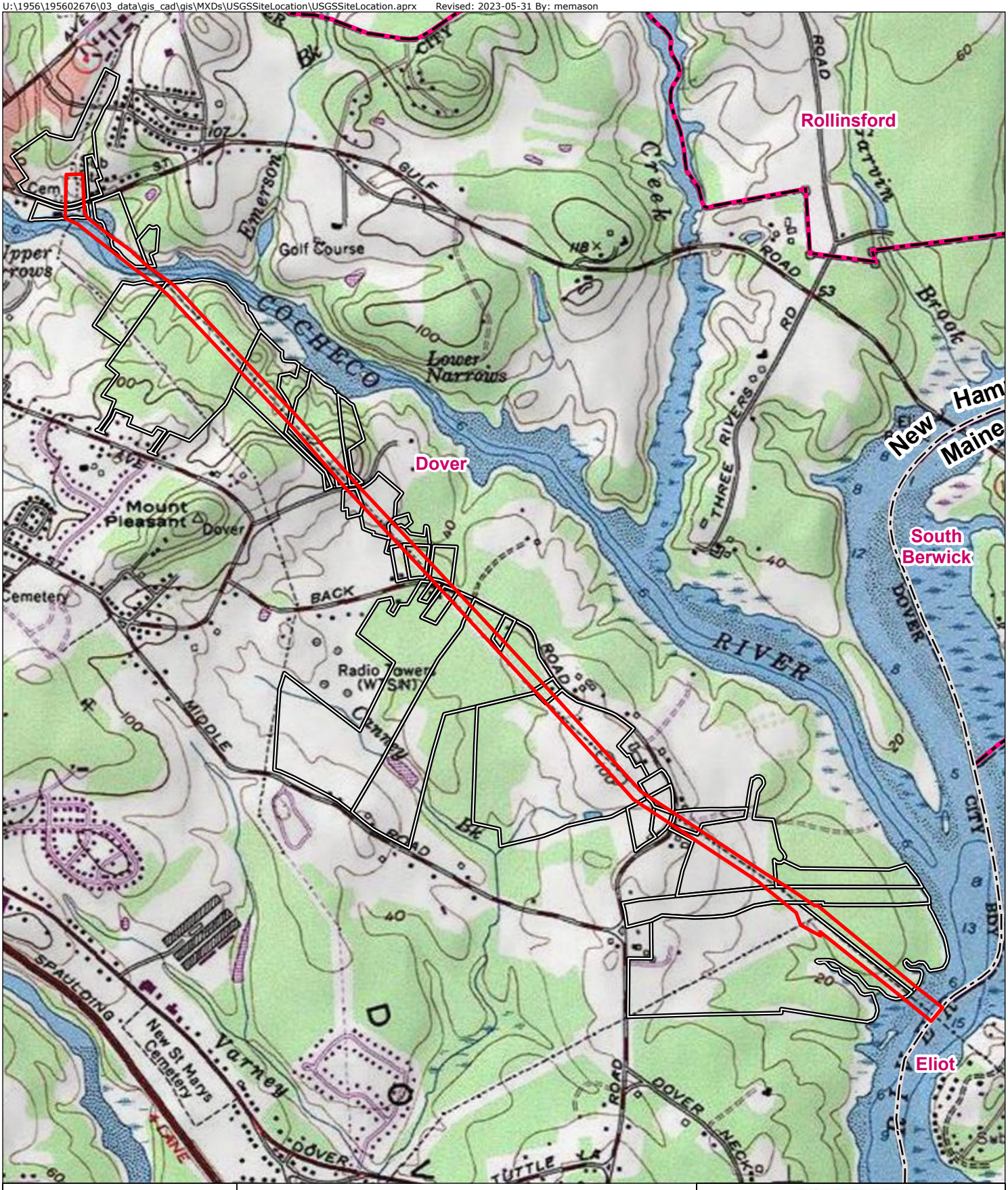
December 22, 2023

Photo 1. Representative view of upland area near proposed structure 20, above McKone Lane. Stantec. June 9, 2023.

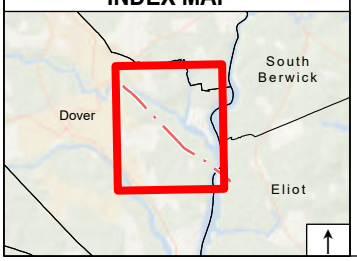
Photo 2. Representative view northwest near proposed structure 22 and wetland W05. Stantec. June 9, 2023.

FIGURES

U:\1956\195602676\03_data\gis_cad\gis\MXDs\USGSSiteLocation\USGSSiteLocation.aprx Revised: 2023-05-31 By: memason



INDEX MAP



Legend

- Approximate Project Limits
- Municipal Boundary
- State Boundary
- Abutting Parcel Boundary

N

1 inch = 1,500 Feet

0 750 1,500 Feet

EVERSOURCE ENERGY

Dover to Eliot (R169)
Structure Replacement Project

Date: May 31, 2023

Figure 1
USGS Location Map

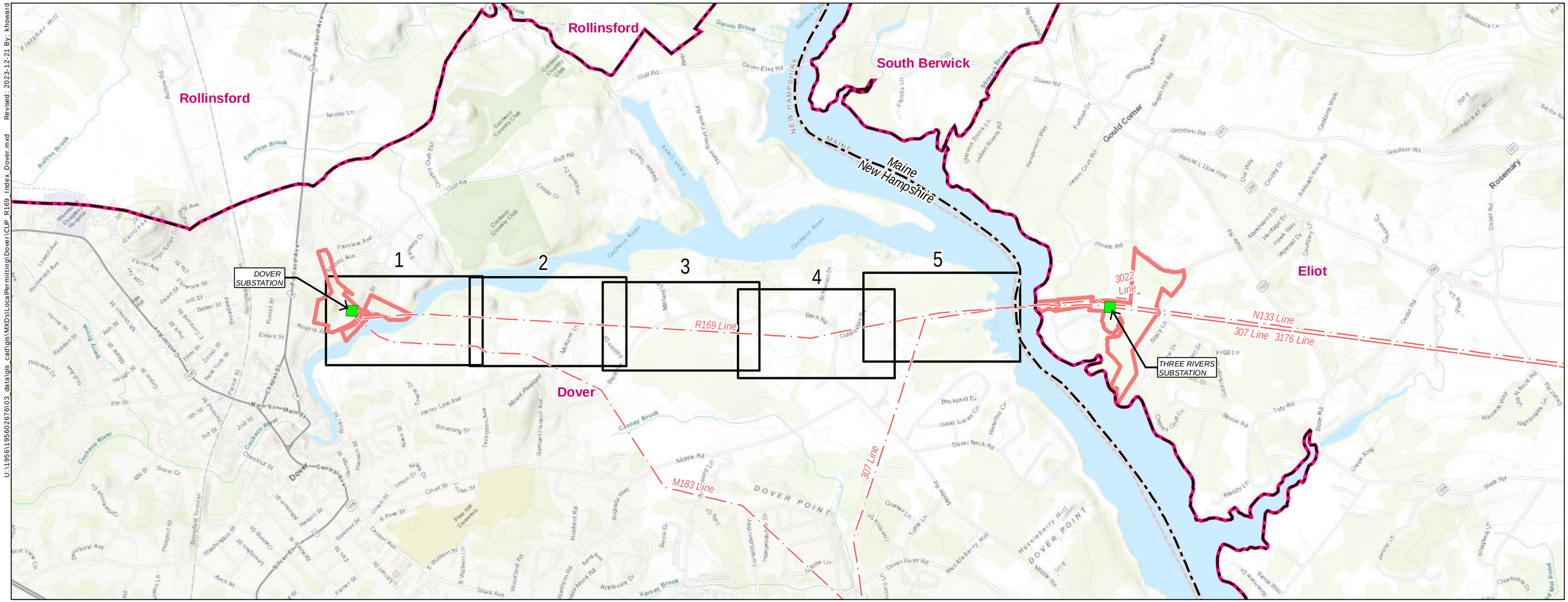
R169 Line - Structure Replacement Project

Dover, NH

Environmental Resources Map

Dover CUP Permit Map Set

Date: December 21, 2023



Legend

Substation | Municipal Boundary | State Boundary | Map Sheet | Eversource Owned Property

PREPARED FOR:

EVERSOURCE ENERGY

107 Selden Street
Berlin, CT 06037

N

0 2,000 4,000 Feet

INDEX OF FIGURES

Title Sheet / Index Map
Map Sheets 1-5

PREPARED BY:

Stantec

30 Park Drive
Topsham, ME 04086

Temporary Wetland Impact (SF)	Temporary Wetland Protection District Impact (SF)	Temporary Conservation District Impact (SF)	Permanent Wetland Protection District Impact (SF)	Permanent Conservation District Impact (SF)
742	1,802	1,515	-	-

Cocheco River

Cocheco River Wildlife Management Area

831-024
Tax Map ID: K0001-A00000
Robert Swanson
38 McKone Lane

831-025
Tax Map ID: K0001-A00001
State of New Hampshire
McKone Lane

831-022
Tax Map ID: N0018-001000
State of New Hampshire
McKone Lane

831-023
Tax Map ID: K0001-B00000
State of New Hampshire
McKone Lane

830-262
Tax Map ID: K0002-000000
State of New Hampshire
Henry Law Avenue

831-020
Tax Map ID: N0018-006000
Daniel & Jacqueline Ayer Revocable Trusts
McKone Lane

831-019
Tax Map ID: N0018-014000
Brianna Dichter
10 Whiteley Drive

831-018
Tax Map ID: N0018-000OP1
One Home Builders II LLC
Eagan Drive

831-021
Tax Map ID: N0019-005000
Anthony P Ayer
47 McKone Lane

831-017
Tax Map ID: N0019-A00000
Elaine M Thurston
174 Back Road

WHITELEY DRIVE

EAGAN DRIVE

MCKONE LANE

FALCON DRIVE

BACKROAD

W06-PEM
PVP01
GAS
W07-PSS
S02
S03
W08-PEM
W09-PEM
W10-PEM
W11-PSS
S04
Dover
R169 Line
M183 Line

CONFIGURE WORK PADS TO AVOID EXISTING STONEWALL

UTILIZE EXISTING BREACH IN STONEWALL

PERMISSION REQUIRED FOR OFF-ROW ACCESS

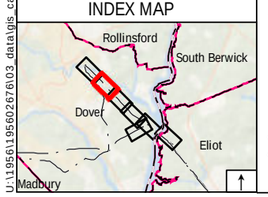
TEMPORARY WETLAND IMPACT: +/-742 SQ.FT.

SPAN STREAM NO IMPACT

UTILIZE EXISTING PAVED DRIVEWAY

STONEWALL TO BE REMOVED AND REBUILT AFTER CONSTRUCTION

INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Sediment Control Barrier (Typ.)
- Stone Work Pad
- Temporary Wetland Construction Matting
- Temporary Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 880 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- FEMA 100-Year Flood Zone
- FEMA Floodway
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- NHDES 250' Protected Shoreland
- Conservation District
- Wetland Protection District

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines provided by Eversource Energy. Wetlands, watercourses, and potential vernal pools delineated and verified by Stantec June 2023. Additional sources include: FEMA, NH Granit, Maine Geolibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery.

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

R169 Line Structure Replacement
Dover CUP Permit Map Set

Dover, NH	MAP SHEET 2 of 5
Date: December 21, 2023	Stantec

U:\11956\119560267\03_data\gis_cad\gis\MXDs\LocalPermitting\Dover\CUP_R169_MapSet_Dover.mxd Revised: 2023-12-21 By: khoward

APPENDICES

Appendix A WETLAND DELINEATION REPORT

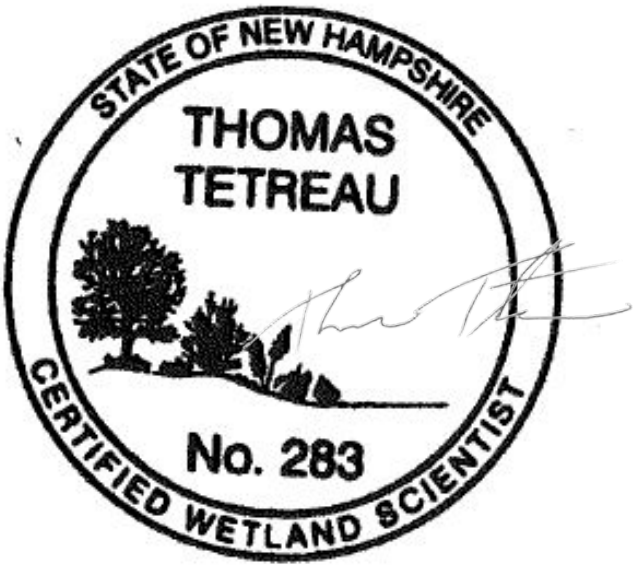
Wetland and Watercourse Delineation and Functional Assessment Report: R169 Structure Replacement Project

Dover, New Hampshire, and Eliot, Maine

September 14, 2023

Prepared for:

Eversource Energy
13 Legends Drive
Hooksett, NH 03106



Prepared by:

Stantec Consulting Services Inc.
30 Park Drive
Topsham, ME 04086

Table of Contents

1.0 INTRODUCTION 1

2.0 METHODS 1
2.1 WETLAND AND WATERCOURSE DELINEATION 1
2.2 FUNCTIONAL ASSESSMENT 2

3.0 RESULTS 3
3.1 GENERAL SITE DESCRIPTION 3
3.2 WETLAND AND WATERCOURSE DELINEATION 3
3.3 FUNCTIONAL ASSESSMENT 7

LIST OF TABLES

Table 1. Summary of Delineated Wetlands 4
Table 2. Summary of Delineated Streams 6
Table 3. Summary of Identified Vernal Pools 7
Table 4. Summary of Functional Assessment 8

LIST OF FIGURES

Permit Map Set

LIST OF APPENDICES

Appendix A Representative Photographs
Appendix B Corps Wetland Determination Data Forms (provided upon request)
Appendix C Wetlands Functional Assessment Worksheets (provided upon request)
Appendix D Observed Wildlife

1.0 INTRODUCTION

Eversource Energy (Eversource) proposes to replace approximately 20 existing transmission line structures located within the full length of the R169 Line, totaling approximately 3 miles of combined transmission line right-of-way (ROW) in Dover, New Hampshire and Eliot, Maine (Project Site; see attached Draft Map Set). Of the 20 structures proposed to be replaced, 19 are located in Dover and 1 is located in Eliot. Stantec Consulting Services Inc. (Stantec) was contracted to conduct wetland and watercourse delineations and a wetland functional assessment of the Project Site to support federal, state, and local natural resource permitting.

Stantec conducted on-site delineations within the existing ROW between June 8 and June 9, 2023. The delineations were conducted by Tom Tetreau, New Hampshire Certified Wetland Scientist #283. This report includes descriptions of the wetland and watercourse delineation methods and results.

2.0 METHODS

2.1 WETLAND AND WATERCOURSE DELINEATION

The R169 Line was previously delineated over 5 years ago, and the spatial data of these previously delineated wetlands and watercourses were used to aid in the 2023 wetland and watercourse delineation.

Wetland boundaries under local, state, and federal jurisdiction were determined using the technical criteria described in the U.S. Army Corps of Engineers (Corps) *Corps of Engineers Wetlands Delineation Manual*[1] and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Regional Supplement.*[2] Wetland communities were classified according to the *Classification of Wetlands and Deepwater Habitats of the United States.*[3] Hydric soil determinations were made in accordance with the Corps wetland delineation manuals and the *Field Indicators for Identifying Hydric Soils in New England (Version 4).*[4]

Wetland boundaries anticipated to meet state, federal, and local jurisdictional criteria were located using a Global Positioning System (GPS) receiver capable of submeter accuracy. The previously delineated

[1] Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1. U.S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, MS.
[2] U.S. Army Corps of Engineers. 2011. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Version 2.0), ed. J. S. Wakeley, R. W. Lichvar, and C. V. Noble. ERDC/EL TR-12-1. Vicksburg, MS: U.S. Army Engineer Research and Development Center.
[3] Federal Geographic Data Committee. 2013. Classification of wetlands and deepwater habitats of the United States. FGDC-STD-004-2013. Second Edition. Wetlands Subcommittee, Federal Geographic Data Committee and U.S. Fish and Wildlife Service, Washington, DC.
[4] New England Hydric Soils Technical Committee. 2017. Field Indicators for Identifying Hydric Soils in New England (Version 4).

wetland boundaries were confirmed using the GPS, with revisions to the boundaries located with the GPS as necessary.

Watercourses (e.g., streams) identified during the delineations were identified based on the definitions in NHDES Certified Administrative Rules Env-Wt 406.04, as well as the technical guidance available from the Corps on the identification of an Ordinary High Water Mark.[5] The top of each bank was mapped for streams typically over 6 feet wide, and the centerline was mapped for streams with top of bank widths up to 6 feet wide. Data was collected on flow regime, top of bank, band depth, Ordinary High Water Mark widths, dominant substrates, and evidence of biological use. GPS data were used to produce the attached map set.

The wetland delineation occurred outside the appropriate identification period for vernal pool indicator species; therefore, potential vernal pools were identified and evaluated in accordance with the *Identification and Documentation of Vernal Pools in New Hampshire.*[6] Potential vernal pools were primarily identified based on their physical characteristics and landscape position, and the presence of vernal pool indicator species, if observed. Observations of approximate size, hydrology, and evidence of disturbance were recorded. The boundaries of the potential vernal pools were located with GPS receivers, and photographs were taken of each vernal pool identified.

Priority Resource Areas (PRA), as defined in Env-Wt 103.66, were identified based on field observations and use of the Wetlands Permit Planning Tool.[7] PRAs identified along the R169 Line consisted of wetlands contiguous with tier 3 streams, tidal wetlands, and undeveloped tidal buffer zones.

2.2 FUNCTIONAL ASSESSMENT

Stantec performed a wetland functional assessment of the delineated wetlands and watercourses in accordance with New Hampshire Wetland Rules (Env-Wt 311.10). Wetland functions and values were qualitatively evaluated through direct field observation and a review of existing public data resources following the New Hampshire Method for evaluating the Ecological Integrity of the Wetlands and Streams (RSA 482-A:2, XI) and Corps *Highway Methodology Workbook Supplement.*[8] Information was collected to prepare Corps Wetland Determination Data Forms and Wetlands Functional Assessment Worksheets. Full assessments of Ecological Integrity using the New Hampshire Method is based on a series of desktop and field assessments and results in a numerical Functional Value Index for each wetland. Due to the length of the Project area, the abundance of wetlands, and the anticipated wetland impacts associated with the Project (temporary timber matting), Stantec evaluated the Ecological Integrity of each wetland using a qualitative value of low, medium, and high that considered the condition of the wetland

[5] U.S. Army Corps of Engineers. 2005. Regulatory Guidance Letter: Ordinary High Water Mark Identification. December 8, 2005. No. 05-05.

[6] Marchand, M. 2016. *Identifying and Documenting Vernal Pools in New Hampshire*. Third Edition, New Hampshire Fish and Game Department, Nongame and Endangered Wildlife Program.

[7] https://nhdeswppt.unh.edu/, accessed June 2023.

[8] U.S. Army Corps of Engineers. 1999. The Highway Methodology Workbook Supplement, Wetland Functions and Values: A Descriptive Approach. U.S. Army Corps of Engineers. New England Division. 32pp. NAEEP-360-1-30a.

relative to human-caused stressors, diversity of native vegetation, and presence of natural processes. This modified method allowed for a more consistent and streamlined approach when completing the required Wetlands Functional Assessment Worksheets. The temporary impact area (matting) listed on the Wetlands Functional Assessment Worksheets is approximate based on preliminary mapping and Project design and represents the greatest amount of impact likely to occur. Temporary wetland impacts will be minimized throughout the permitting and design process, and some of these wetland impact areas may decrease.

3.0 RESULTS

3.1 GENERAL SITE DESCRIPTION

The R169 Line is an existing transmission line that traverses forested, residential, and agricultural landscapes between the Dover Substation in Dover and the Three Rivers Substation in Eliot. The open transmission line is approximately 100 feet wide in most areas, with wider stretches, up to 250-feet wide, containing additional transmission lines in the areas around the Piscataqua River crossing. The ROW primarily crosses rural areas and town roads, as well as the Cocheco River and the Piscataqua River. The topography varies from flat lowlands and fields to undulating hills and steep side slopes. Elevations generally range between 0 and 90 feet above mean sea level.

The open upland natural communities consist of early successional shrub, sapling, and herbaceous species. Characteristic woody vegetation includes gray birch (*Betula populifolia*), quaking aspen (*Populus tremuloides*), red maple (*Acer rubrum*), sheep-laurel (*Kalmia angustifolia*), late lowbush blueberry (*Vaccinium angustifolium*), white meadowsweet (*Spiraea alba*), Allegheny blackberry (*Rubus allegheniensis*), American hazelnut (*Corylus americana*), red oak (*Quercus rubra*), and red raspberry (*Rubus idaeus*). Commonly observed herbaceous vegetation included little Canada mayflower (*Maianthemum canadense*), wrinkle-leaf goldenrod (*Solidago rugosa*), Canada goldenrod (*Solidago canadensis*), bracken fern (*Pteridium aquilinum*), hay-scented fern (*Dennstaedtia punctilobula*), wild strawberry (*fragaria virginiana*), bristly dewberry (*Rubus hispidus*), Kentucky blue grass (*Poa pratensis*), and other common grass and wildflower species. Non-native invasive species abundance was moderate compared to native vegetation and included rambler rose (*Rosa multiflora*), Japanese barberry (*Berberis thunbergii*), Morrow's honeysuckle (*Lonicera morrowii*), and glossy false buckthorn (*Frangula alnus*). Soils within the ROW consisted primarily of loam and silty loam.

3.2 WETLAND AND WATERCOURSE DELINEATION

The wetland and watercourse delineations were conducted on June 8 and June 9, 2023, under appropriate conditions during the growing season. A total of 23 wetlands, 9 unnamed watercourses, and the Cocheco River and Piscataqua River were delineated. In addition, one potential vernal pool was surveyed. The locations of the delineated wetlands, watercourses, and potential vernal pool are included on the attached Draft Map Set. Tables 1, 2, and 3 summarize the delineated wetlands, watercourses, and potential vernal pool, respectively. Representative site photographs are provided in Appendix A. Representative Corps Wetland Determination Forms are included in Appendix B.

Table 1. Summary of Delineated Wetlands

Wetland Resource Identifier	Wetland Classification[1]	Dominant and Characteristic Vegetation	Hydric Soil Indicators	Wetland Hydrology Indicators	Priority Resource Area (PRA)	Additional Comments
W001	PEM	Trees: None Saplings/Shrubs: None Herbs: broad-leaf cat-tail (*Typha latifolia*), lamp rush (*Juncus effusus*), cottongrass bulrush (*Scirpus cyperinus*), sensitive fern *(Onoclea sensibilis*), uptight sedge (*Carex stricta*)	F3: Depleted Matrix	A3: Saturation B9: Water-stained leaves	No	Ditch excavation around existing substation
W002	E2EM	Trees: none Saplings/Shrubs: none Herbs: saltwater cord grass (*Spartina alterniflora*), eastern grasswort (*Lilaeopsis chinesis*)	F3: Depleted Matrix	A1: Surface Water A2: High Water Table A3: Saturation	Yes - Tidal	Tidal wetland associated with Cocheco River. Rare plant species observed.
W003	PFO	Trees: Norway maple (*Acer plantanoides*) Saplings/Shrubs: speckled alder (*Alnus incana*) Herbs: sensitive fern, lamp rush	F3: Depleted Matrix	A3: Saturation B9: Water-stained leaves	Yes – within 100-feet of tidal areas	Stream S01 flows through wetland and into the Cocecho River.
W004	PSS	Trees: None Saplings/Shrubs: speckled alder Herbs: broad-leaf cat-tail, sensitive fern	F3: Depleted Matrix	A2: High Water Table A3: Saturation	Yes – within 100-feet of tidal areas	
W005	PSS/PEM	Trees: None Saplings/Shrubs: speckled alder Herbs: sensitive fern, broad-leaf cat-tail, lamp rush	F3: Depleted Matrix	A2: High Water Table A3: Saturation	No	
W006	PEM	Trees: none Saplings/Shrubs: red maple, speckled alder Herbs: sensitive fern, broad-leaf cat-tail, lamp rush, reed canary grass (*Phalaris arundinacea*), spotted touch-me-not (*Impatiens capensis*)	F3: Depleted Matrix	A3: Saturation	No	Contains potential vernal pool PVP01.
W007	PSS	Trees: none Saplings/Shrubs: speckled alder Herbs: sensitive fern, lamp rush, spotted touch-me-not, bluejoint (*Calamagrostis canadensis*), woodland horsetail (*Equisetum sylvaticum*)	F3: Depleted Matrix	A3: Saturation	No	Contains stream S02.
W008	PEM	Trees: none Saplings/Shrubs: speckled alder Herbs: broad-leaf cat-tail, sensitive fern, uptight sedge	F3: Depleted Matrix	A3: Saturation	No	Contains stream S03.
W009	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, lamp rush, spotted touch-me-not, purple loosestrife (*Lythrum salicaria*)	F3: Depleted Matrix	A3: Saturation	No	

Wetland Resource Identifier	Wetland Classification[1]	Dominant and Characteristic Vegetation	Hydric Soil Indicators	Wetland Hydrology Indicators	Priority Resource Area (PRA)	Additional Comments
W010	PEM/PSS	Trees: none Saplings/Shrubs: speckled alder Herbs: sensitive fern, lamp rush, woodland horsetail, bluejoint, reed canary grass	F3: Depleted Matrix	A3: Saturation	No	
W011	PSS	Trees: none Saplings/Shrubs: speckled alder, common winterberry (*Ilex verticilata*) Herbs: nodding sedge (*Carex gynandra*), sensitive fern, spotted touch-me-not, reed canary grass	F3: Depleted Matrix	A2: High Water Table A3: Saturation	No	Contains stream S04.
W012	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, bluejoint, lamp rush, broad-leaf cat-tail	F3: Depleted Matrix	A3: Saturation	No	
W013	PEM	Trees: none Saplings/Shrubs: alder Herbs: sensitive fern, broad-leaf cat-tail, lamp rush, skunk-cabbage (*Symplocarpus foetidus*)	F3: Depleted Matrix	A2: High Water Table A3: Saturation	No	
W014	PEM/PSS	Trees: none Saplings/Shrubs: red maple, speckled alder, common winterberry Herbs: sensitive fern, lamp rush, broad-leaf cat-tail, reed canary grass, wrinkle-leaf goldenrod	F3: Depleted Matrix	A3: Saturation B9: Water-stained leaves	No	
W015	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, bluejoint, steeplebush, wrinkle-leaf goldenrod, lamp rush	F3: Depleted Matrix	A3: Saturation	No	Portion of wetland within maintained lawn/yard area.
W016	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, lamp rush, uptight sedge, fowl manna grass (*Glyceria striata*), greater bladder sedge (*Carex intumescens*)	F3: Depleted Matrix	A3: Saturation	No	
W017	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, bluejoint, reed canary grass	F3: Depleted Matrix	A3: Saturation B9: Water-stained leaves	No	
W018	PSS/PEM	Trees: none Saplings/Shrubs: broad-leaf meadowsweet (*Spiraea latifolia*), coastal sweet pepperbush (*Clethra alnifolia*), speckled alder, common winterberry Herbs: sensitive fern, lamp rush, bluejoint, blue iris (*Iris versicolor)*	F3: Depleted Matrix	A3: Saturation	No	Portion of wetland is mowed hay field. Contains stream S05.

Wetland Resource Identifier	Wetland Classification[1]	Dominant and Characteristic Vegetation	Hydric Soil Indicators	Wetland Hydrology Indicators	Priority Resource Area (PRA)	Additional Comments
W019	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, lamp rush, broad-leaf cat-tail, necklace sedge (*Carex projecta*)	F3: Depleted Matrix	A3: Saturation	No	
W020	PEM/PSS	Trees: none Saplings/Shrubs: pussy willow (*Salix discolor*) Herbs: sensitive fern, bluejoint, reed canary grass, lamp rush, broad-leaf cat-tail	F3: Depleted Matrix	A3: Saturation	No	
W021	PEM	Trees: none Saplings/Shrubs: speckled alder Herbs: lamp rush, sensitive fern, cottongrass bulrush	F3: Depleted Matrix	A3: Saturation B10: Wetland drainage patterns	No (Maine)	Adjacent to Piscataqua River. Portions within mowed lawn/yard area.
W022	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, lamp rush, woodland horsetail, cottongrass bulrush	F3: Depleted Matrix	A3: Saturation	No (Maine	
W023	PSS/PEM	Trees: none Saplings/Shrubs: broad-leaf meadowsweet, speckled alder, common winterberry Herbs: sensitive fern, lamp rush, broad-leaf cat-tail	F3: Depleted Matrix	A3: Saturation B9: Water-stained leaves	No (Maine)	

[1] PEM = Palustrine Emergent, PSS = Palustrine Scrub-shrub, PUB = Palustrine Unconsolidated Bottom, PFO = Palustrine Forested, E2EM = Estuarine Intertidal Emergent

Table 2. Summary of Delineated Streams

Stream Identifier	Flow Type	Bankfull Width (ft)	Ordinary High Water Mark Width (ft)	Dominant Substrates	Additional notes
S01	Perennial	4-6	4-6	Sand, gravel, silt	Flows south through W03, into the Cocheco River
Cocheco River	Perennial/Tidal	200+	200+	Silt, gravel, mud	
S02	Intermittent	2-3	2-3	Silt, gravel	Flows across ROW toward Cocheco River
S03	Perennial	8	8	Cobbles, gravel, boulders	Flows across ROW toward Cocheco River
S04	Perennial	4	4	Silt, gravel	Flows through wetland W11 in residence area
S05	Intermittent	4	4	Silt, gravel	Flows from wetland W18 towards Piscataqua River
Piscataqua River	Perennial/Tidal	850+	850+	Silt, gravel, mud	
S06	Intermittent	3	3	Sand, silt, gravel	Flows across ROW toward Piscataqua River; flows under existing road through culvert
S07	Intermittent	4	4	Gravel, cobbles	Flows across ROW toward Piscataqua River; flows under existing road through culvert
S08	Intermittent	4	4	Silt, gravel, cobbles	Flows across ROW toward Piscataqua River; flows under existing road through culvert
S09	Ephemeral	4	5	Sand, gravel	Originates from culvert under existing road, likely only flows during heavy rain

Table 3. Summary of Identified Vernal Pools

VP Identifier	Estimated Hydroperiod	Indicator Species	Comments
PVP01	Semi-permanent	Unknown adult frogs observed	Potential old excavation adjacent to pipeline crossing of the transmission line ROW. Approximately 50-foot diameter and 1 to 2 feet deep with mucky substrate.

3.3 FUNCTIONAL ASSESSMENT

Table 4 summarizes the results of the wetland functional assessment. In general, wetlands within the Project area provide a variety of functions and values. Nutrient Trapping / Retention & Transformation, Sediment Trapping, and Wetland-dependent Wildlife Habitat were the most common functions along with Groundwater Recharge and Flood Storage.

Wetlands Functional Assessment Worksheets for wetlands proposed to be impacted by temporary timber matting are included in Appendix C. Potential vernal pools and streams were considered when performing the functional assessment of impacted wetlands, but since no impacts are proposed to potential vernal pools and streams, a full assessment of these features was not included in the Wetlands Functional Assessment Worksheets. The list of observed wildlife is included in Appendix D, and Table 1 above includes the observed vegetation.

Table 4. Summary of Functional Assessment

Wetland Resource Identifier	Wetland Functions and Values[1]													
	1 Ecological Integrity[2]	2 Educational Potential	3 Fish and Aquatic Life Habitat	4 Flood Storage	5 Groundwater Recharge	6 Noteworthiness	7 Nutrient Trapping / Retention & Transformation	8 Production Export	9 Scenic Quality	10 Sediment Trapping	11 Shoreline Anchoring	12 Uniqueness/ Heritage	13 Wetland-based Recreation	14 Wetland-dependent Wildlife Habitat
W001	Low			X			P	X		X				
W002	High		P	P		P	P	X		X	P	X		X
W003	Moderate			P			X	X		X	X			X
W004	Moderate			P			X	X		X	P			X
W005	Moderate			P	X		X	X		X				X
W006	Moderate				P		X	X		X				P
W007	Moderate			X	P		X	X		X	P			X
W008	Moderate			X	P		X	X		X	P			X
W009	Low				P		X	X		X				X
W010	Moderate			X	P		X	X		X				X
W011	Moderate		X	X	X		X	X		X	P			X
W012	Low				X		P	X		X				X
W013	Moderate			X	X		P	X		X				X
W014	Moderate			X	X		P	P		X				X
W015	Low				X		X	X		P				X
W016	Low				X		P	X		X				X
W017	Moderate						X	P		X				X
W018	Moderate			X	X		P	X		X				X
W019	Low						P	X		P				X
W020	Low						P	X		P				X
W021	N/A, Maine			P	X		X	X		P				X
W022	N/A, Maine				X		X	X		P				X
W023	N/A, Maine			X	P	X	X	X		P				X

X = Function observed within wetland, P = Principal Function

[1] Corps Highway Methodology Workbook Supplement

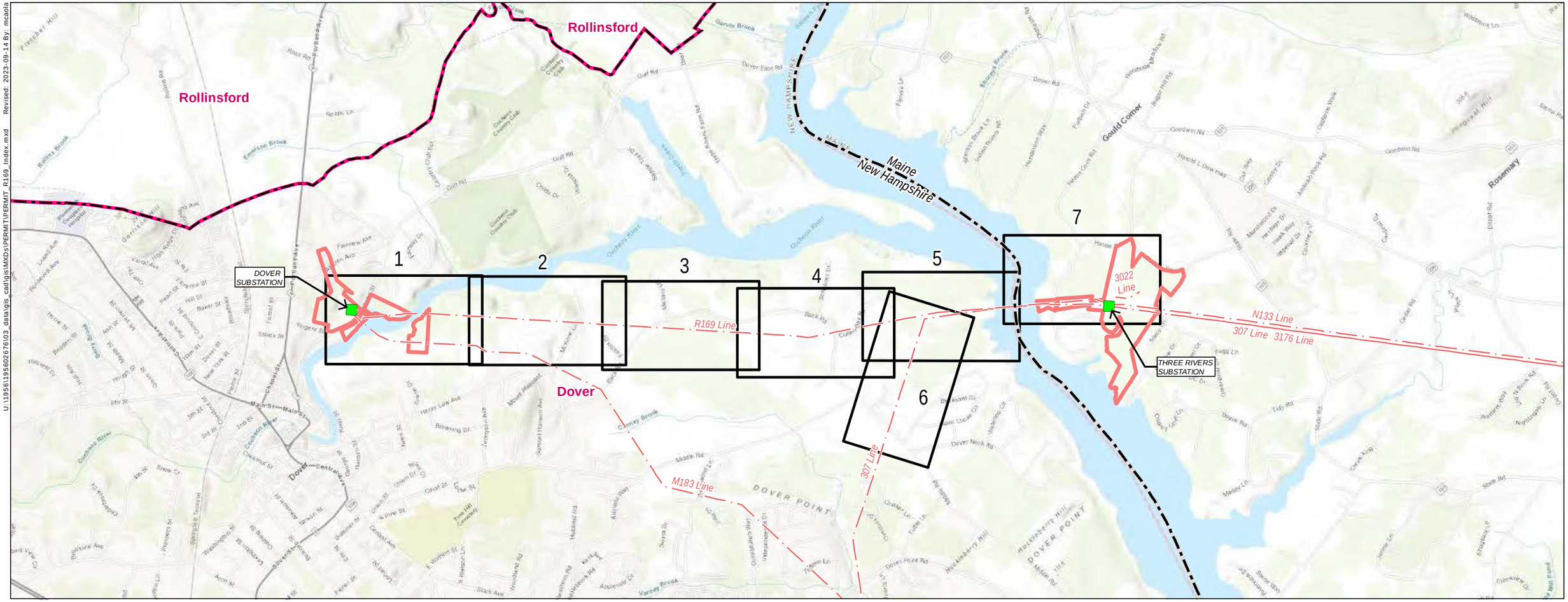
[2] Method for the Comparative Evaluation of Nontidal Wetlands in New Hampshire

FIGURES

R169 Line - Structure Replacement Project

Dover, NH and Eliot, ME
Environmental Resources Map
PERMIT Map Set
Date: September 14, 2023

U:\119561195602676\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_Index.mxd Revised: 2023-09-14 By: mcaola



Legend

Substation | Municipal Boundary | State Boundary | Map Sheet | Eversource Owned Property

N

0 2,000 4,000 Feet

PREPARED FOR:

EVERSOURCE ENERGY

107 Selden Street
Berlin, CT 06037

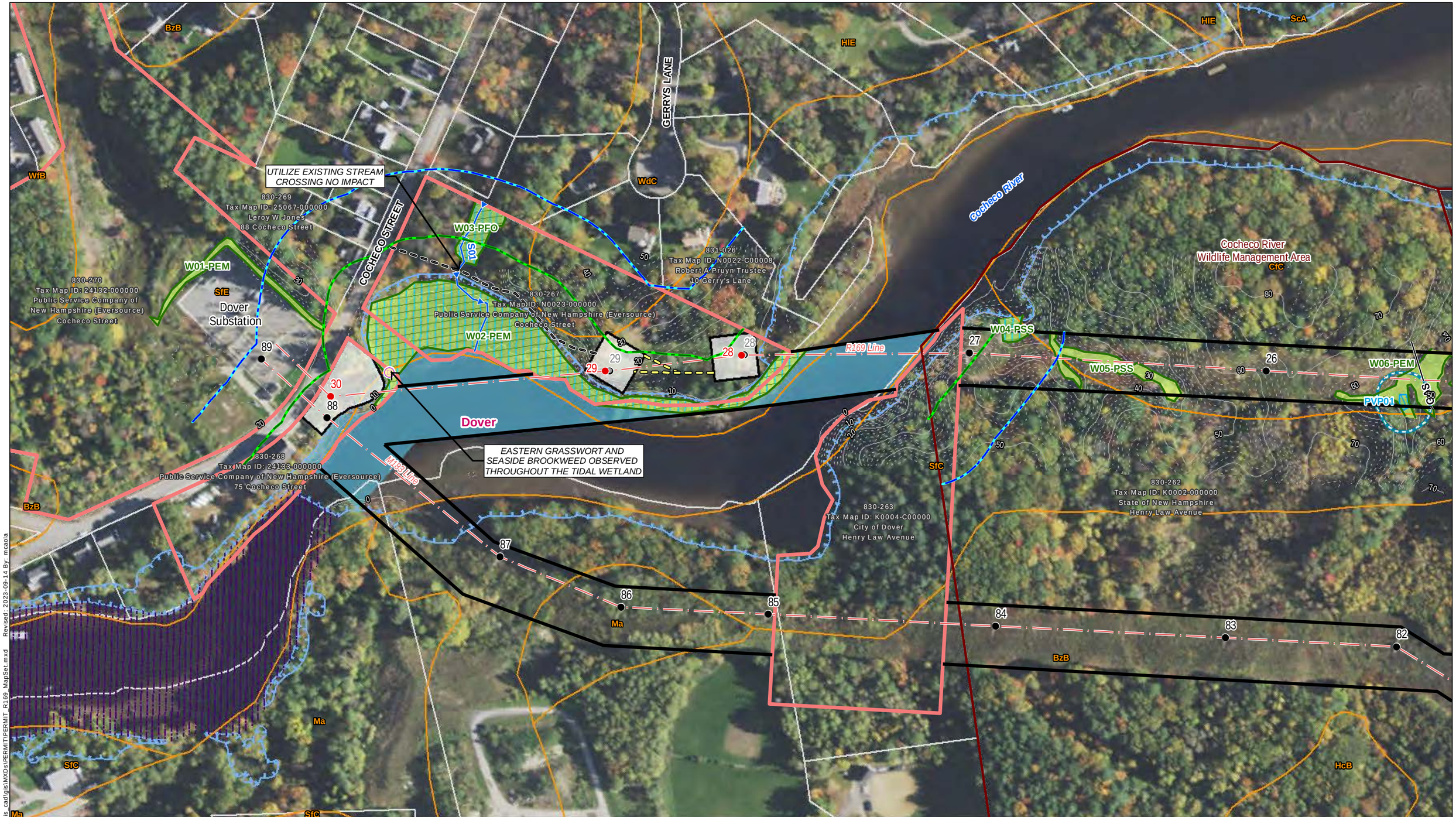
INDEX OF FIGURES

Title Sheet / Index Map
NRCS Soils Table
Map Sheets 1-7

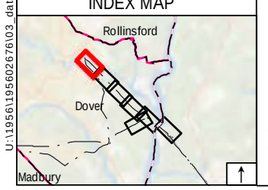
PREPARED BY:

Stantec

30 Park Drive
Topsham, ME 04086



INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 830 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine Geolibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

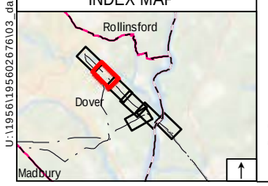
R169 Line Structure Replacement
PERMIT Map Set

Dover, NH	MAP SHEET 1 of 7
Date: September 14, 2023	Stantec

U:\19560\19560267\603_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

Dover
Cocheco River
Cocheco River Wildlife Management Area
831-022
Tax Map ID: N0018-001000
State of New Hampshire
McKone Lane
831-024
Tax Map ID: K0001-A00000
Robert Swanson
38 McKone Lane
831-025
Tax Map ID: K0001-A00001
State of New Hampshire
McKone Lane
831-023
Tax Map ID: K0001-B00000
State of New Hampshire
McKone Lane
830-262
Tax Map ID: K0002-000000
State of New Hampshire
Henry Law Avenue
831-020
Tax Map ID: N0018-006000
Daniel & Jacqueline Ayer Revocable Trusts
McKone Lane
831-019
Tax Map ID: N0018-014000
Brianna Dichter
10 Whiteley Drive
831-018
Tax Map ID: N0018-000OP1
One Home Builders II LLC
Eagan Drive
831-021
Tax Map ID: N0019-005000
Anthony P Ayer
47 McKone Lane
831-017
Tax Map ID: N0019-A00000
Elaine M Thurston
174 Back Road
WHITELEY DRIVE
EAGAN DRIVE
MCKONE LANE
FALCON DRIVE
BACKROAD
W06-PEM
PVP01
W07-PSS
W08-PEM
W09-PEM
W10-PEM
W11-PSS
SPAN STREAM NO IMPACT
CONFIGURE WORK PADS TO AVOID EXISTING STONEWALL
UTILIZE EXISTING BREACH IN STONEWALL
STONEWALL TO BE REMOVED AND REBUILT AFTER CONSTRUCTION
UTILIZE EXISTING PAVED DRIVEWAY
TEMPORARY WETLAND IMPACT: +/-742 SQ.FT.
R169 Line
M183 Line
ScA
HeD
HcC
SfC
WfB
HcB
DeA
HcD
CfC
CsD
CsB
WfC
HdD
BzB
HdC
HcB
ScB
HdB
WdB
82
81
80
79
78
8.5
25
24
23
22
21
20

INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 830 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine GeoLibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

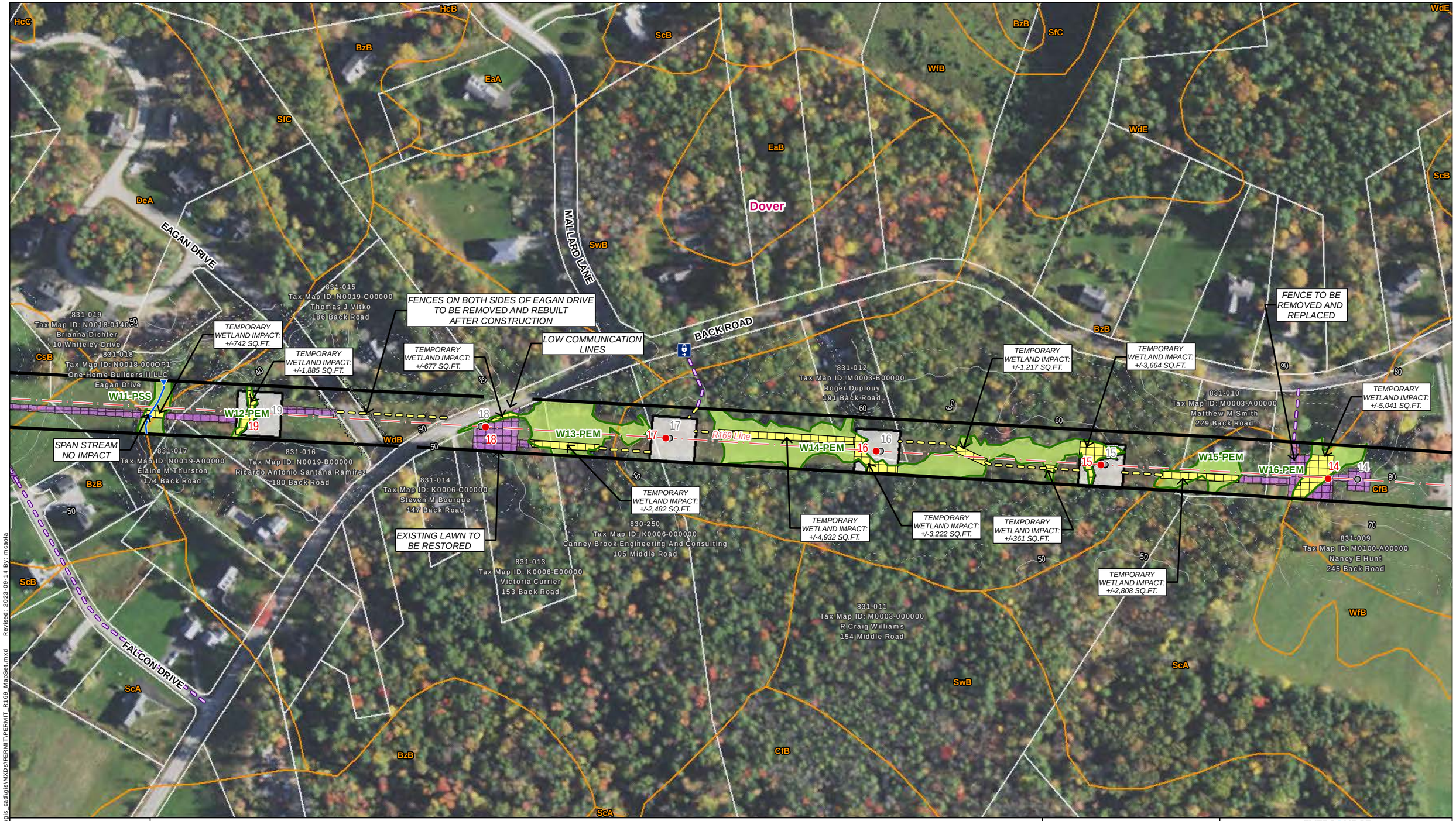
STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

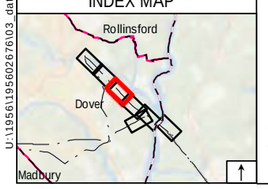
R169 Line Structure Replacement
PERMIT Map Set

Dover, NH	MAP SHEET 2 of 7
Date: September 14, 2023	Stantec

U:\119561195602676\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola



INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 830 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine Geolibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

R169 Line Structure Replacement
PERMIT Map Set

Dover, NH	MAP SHEET 3 of 7
Date: September 14, 2023	Stantec

U:\11956\11956026761\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

FENCE TO BE REMOVED AND REPLACED

TEMPORARY WETLAND IMPACT: +/-926 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-1,452 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-810 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-3,188 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-10,000 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-6,840 SQ.FT.

ACCESS FROM BACK ROAD

EXISTING LAWN TO BE RESTORED

SCHOONER DRIVE

CULLEN BAY ROAD

BACK ROAD

Dover

R169 Line

W16-PEM

W17-PEM

W18-PSS

831-008
Tax Map ID: M0100-B00000
Gregory W Hunt
295 Back Road

831-007
Tax Map ID: M0105-002000
Christopher D Berg
303 Back Road

831-004
Tax Map ID: M0093-B00000
Nancy Magiaras
362 Back Road

831-003
Tax Map ID: M0092-B00000
Cullen Bay Homeowners Association
Cullen Bay Road

831-005
Tax Map ID: M0105-000000
Eric W Thompson
321 Back Road

831-009
Tax Map ID: M0100-A00000
Nancy E Hunt
245 Back Road

831-006
Tax Map ID: M0105-001000
William C & Nancy Hunt Trustees
Back Road

831-001
Tax Map ID: M0092-A00000
Patricia Langs
Back Road

829-138
Tax Map ID: M0091-A00000
Townsquare Media Portsmouth LLC
292 Middle Road

WdE WdB BzB ScB CfB HcB WfB ScA SwB SfC HcC

INDEX MAP

Rollinsford
Dover
Madbury

Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 830 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine Geolibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

R169 Line Structure Replacement
PERMIT Map Set

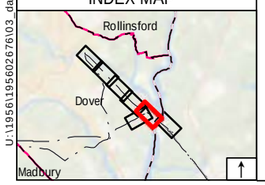
Dover, NH	MAP SHEET 4 of 7
Date: September 14, 2023	Stantec

U:\11956\19560267\6\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

SfC
HaA
WdB
SfC
WfB
SfC
DeB
CULLEN BAY ROAD
CULLEN BAY ROAD
Dover
Piscataqua River
Maine
New Hampshire
829-139
Tax Map ID: M0104-000000
Alan G. Dexter Trustee
Back River Road
831-001
Tax Map ID: M0092-A00000
Patricia Langs
Back Road
WdB
TEMPORARY WETLAND IMPACT: +/-2,022 SQ.FT.
831-002
Tax Map ID: M0092-H00000
Marie V Hebert Trustee
Cullen Bay Road
ScB
TEMPORARY WETLAND IMPACT: +/-10,000 SQ.FT.
831-003
Tax Map ID: M0092-B00000
Cullen Bay Homeowners Association
Cullen Bay Road
W18-PSS
S05
R169 Line
307 Line
SPAN STREAM AND WETLAND NO IMPACT
829-138
Tax Map ID: M0091-A00000
Townsquare Media Portsmouth LLC
292 Middle Road
TEMPORARY WETLAND IMPACT: +/-10,000 SQ.FT.
TEMPORARY WETLAND IMPACT: +/-6,840 SQ.FT.
WdA
WdE
S06
WdC
ScA
BzB
S07
WfC
Ta
EaB
WfB

U:\1956\195602676\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 330 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine Geolibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

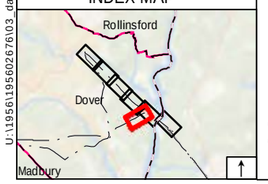
STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

R169 Line Structure Replacement
PERMIT Map Set

Dover, NH	MAP SHEET 5 of 7
Date: September 14, 2023	Stantec

INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 330 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine GeoLibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

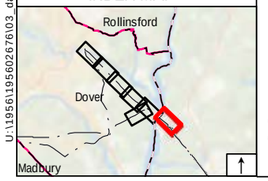
EVERSOURCE ENERGY

R169 Line Structure Replacement
PERMIT Map Set

Dover, NH	MAP SHEET 6 of 7
Date: September 14, 2023	Stantec

U:\11956\119560267\6\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 830 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- Rare Species Observation
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet

0 50 100 200 Feet

Map Notes:

Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet

Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine Geolibrary

Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

R169 Line Structure Replacement
PERMIT Map Set

Dover, NH and Eliot, ME	MAP SHEET 7 of 7
Date: September 14, 2023	Stantec

U:\11956\19560276\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

APPENDICES

Appendix A REPRESENTATIVE PHOTOGRAPHS

Photo 1. Representative view of the Cocheco River from structure 30. Stantec, June 8, 2023.

Photo 2. Representative view of the Cocheco River from Structure 29. Stantec, June 8, 2023.

Photo 3. Stream S01 flowing into Cocheco River near structure 29. Stantec, June 8, 2023.

Photo 4. Representative view of Cocheco River from structure 28. Stantec, June 8, 2023.

Photo 5. Representative view of the ROW and Wetland W05. Stantec, June 8, 2023.

Photo 6. Potential vernal pool PVP01, near structure 25. Stantec, June 8, 2023.

Photo 7. Representative view of the ROW and wetland W10 near structure 23. Stantec, June 8, 2023.

Photo 8. Representative view of the ROW and wetland W13 near structure 18. Stantec, June 8, 2023.

Photo 9. Representative view of the ROW and wetland in active pasture area near structure 14. Stantec, June 8, 2023.

Photo 10. Representative view of the ROW and open field side of wetland W18, near structure 8. Stantec, June 8, 2023.

Photo 11. Stream S05 in wetland W18 near junction of R169 and 307 line ROWs. Stantec, June 8, 2023.

Photo 12. Representative view of the ROW at the Piscataqua River, structure 5. Stantec, June 8, 2023.

Photo 13. Wetland W19 and existing access along 307 line ROW. Stantec, June 8, 2023.

Photo 14. Representative view of the ROW and wetland W21, near structure 4. Stantec, June 8, 2023.

Photo 15. Representative view of the ROW and wetland W23, near structure 3. Stantec, June 8, 2023.

Photo 16. Structure 2, near the Three Rivers Substation. Stantec, June 8, 2023.

Appendix B CORPS WETLAND DETERMINATION DATA FORMS

(Provided upon request)

Appendix C WETLANDS FUNCTIONAL ASSESSMENT WORKSHEETS

(Provided upon request)

Appendix D OBSERVED WILDLIFE

Common Name	Species Name
American crow	*Corvus brachyrhynchos*
Osprey	*Pandion haliaetus*
Eastern chipmunk	*Tamias striatus*
Red-tailed hawk	*Buteo jamaicensis*
White-tailed deer	*Odocoileus virginianus*
Wild turkey	*Meleagris gallopavo*

R169 Structure Replacement Project
Dover, New Hampshire

Conditional Use Permit Application

Part 3 of 5

December 22, 2023

Prepared for:

Public Service Company of New Hampshire d/b/a Eversource Energy
13 Legends Drive
Hooksett, NH 03106

Prepared by:

Stantec Consulting Services Inc.
30 Park Drive
Topsham, ME 04086

City of Dover, New Hampshire
CONDITIONAL USE PERMIT APPLICATION

[Revision Date: October 19, 2020]

Office Use Only	Project #:		Date Received:	
	Amount Paid:		Time Received:	

APPLICANT AND OWNER INFORMATION

Name of Applicant: Public Service Company of NH d/b/a Eversource Energy Telephone # 603-634-2243

Address of Applicant: 13 Legends Drive, Hooksett, NH 03106

E-Mail Address: Travis.Yandow@Eversource.com

Name of Property Owner (if different from applicant): same as above Telephone # same as above

Address of Property Owner: same as above

PROPERTY INFORMATION

Assessor's Map # 831-018 Lot(s) # Multiple

Address of Property: Existing R169 transmission line ROW--end of Falcon Dr. to 245 Back Rd.

Zoning District(s) R-40, R-12, CWD Overlay District(s) Wetland Protection

Rural Residential, Medium Density, Residential, Urban Density Multi Residential, Cocheco Waterfront District

Existing Use of Property: Electric transmission line ROW

CONDITIONAL USE PERMIT INFORMATION

Type of Conditional Use Permit (Check All That Apply):

☐ Conservation District	☐ RCM Use Overlay District	☐ Gateway District
☐ Groundwater Protection	☐ Off-Street Parking and Loading	☐ Alternative Treatment Center
☒ Wetland Protection District	☐ Central Business District	☐ Heritage Residential District

Describe Proposed Use or Activity That Requires Conditional Use Permit and Describe Any Impacts:

Impact Area 3/Sheet 3: Eversource is proposing to replace six structures (13, 14, 15, 16, 17, and 18) along their existing R169 utility transmission line in Dover. These wooden structures require replacement due to age, cracking, leaning, and/or woodpecker damage. The existing structures will be replaced with new weathering steel structures to provide a more reliable electrical infrastructure. The six new structures require construction of both work pads and access roads. In wetland areas, timber matting is used to minimize impacts of work over these sensitive resources. In Area 3, the only impacts are within the Wetland Protection District. In the Wetland District, 23,279 square feet of temporary impact is proposed in the wetland areas as a result of matting for work pads at structures 13, 14, 15, 17, and 18. Approximately 16,716 square feet of temporary impact and 29,941 square feet of permanent impact, is proposed in the wetland buffer areas as a result of the upland disturbance caused by gravel work pads and connecting access roads--primarily around structures 14, 15, and 16. These areas will likely require pre-construction erosion/sediment control BMPs, and monitoring throughout for effectiveness. The gravel area around pads will also be reduced, topsoil spread over gravel areas, and mulched and re-seeded. See attached application narrative and supporting documents for more details.

List Any Associated State or Federal Permits That Have Been or Will Be Applied For and Indicate Their Status: NHDES: Alteration of Terrain; Wetlands Utility Statutory Permit by Notification; Shoreland Permit by Notification; USACE Pre-application Construction Notification; USACE Section 408 Variance to Fed. Navigation Project.

Name of Professional That Prepared Plans: Tom Tetreau, NH Certified Wetland Scientist

Address 30 Park Drive, Topsham, ME 04086 Telephone #: 207-504-7231

Professional License #: 283 E-mail address: tom.tetreau@stantec.com

SIGNATURES

I/We hereby submit this application to the City of Dover Planning Board and attest that to the best of my knowledge all of the information on this application form and in the accompanying application materials and documentation is true and accurate. As applicant or as agent, I attest that I am duly authorized to act in this capacity.

Signature of Property Owner: _____ Date: 12/20/2023

Signature of Applicant (if different from owner): _____ Date: _____

Signature of Agent: _____ Date: 12/20/2023

AUTHORIZATION TO ENTER SUBJECT PROPERTY

I, and my successors, hereby authorize members of the Dover Planning Board, Planning Department and other pertinent City Departments and boards to enter my property for the purpose of evaluating this application, including performing inspections during the application phase, post-approval phase, construction phase and occupancy phase. It is understood that these individuals must use all reasonable care, courtesy, and diligence when on the property.

Signature of Property Owner: _____ Date: 12/20/2023

CITY OF DOVER CONDITIONAL USE
LIST OF ABUTTERS

Pursuant to RSA 676:4, the State Law of New Hampshire, the City of Dover is required to notify the applicant, abutters (including holders of conservation easements), and any professional whose seal is on the plan, of the public hearing by certified mail, return receipt requested. Staff will provide the abutter information, while the applicant must provide accurate contact information for the owner, applicant and professional agents representing the project.

Owner:

TAX MAP	LOT #	PROPERTY OWNER	MAILING ADDRESS
Multiple		Kurt Nelson, Eversource Energy	13 Legends Drive, Hooksett, NH 03106

Applicant (if different from owner):

APPLICANT NAME	APPLICANT COMPANY	MAILING ADDRESS

Surveyor and/or Engineer/Professional Agent:

NAME	COMPANY	MAILING ADDRESS
Tom Tetreau, NH Certified Wetland Scientist	Stantec	30 Park Drive, Topsham, ME 04086

Conservation Easement Holder:

TAX MAP	LOT #	NAME OF EASEMENT HOLDER	MAILING ADDRESS

Stantec Consulting Services Inc.
30 Park Drive, Topsham ME 04086-1737

December 22, 2023

Project/File: 195602676

Attention: Donna Benton
Planning Director
288 Central Avenue
Dover, NH 03820
d.benton@dover.nh.gov

Reference: Conditional Use Permit Application, Eversource Energy, R169 Structure Replacement Project, Dover, New Hampshire

Dear Ms. Benton and Planning Board Members,

On behalf of the Public Service of New Hampshire d/b/a Eversource Energy (Eversource), Stantec Consulting Services Inc. is filing five Conditional Use Permit (CUP) applications for necessary structure replacements as part of the R169 Structure Replacement Project (Project) in the City of Dover. Eversource has identified 18 existing structures along the existing R169 transmission line right-of-way (ROW) in Dover that require replacement due to deterioration from age, cracking, leaning, rot, and/or woodpecker damage.

Portions of the proposed Project are located within the Conservation District and the Wetlands Protection District, as described in the Dover Zoning Ordinance, Articles 170-27 and 170-27.1, respectively. CUPs may be granted within utility ROWs in the Conservation District in accordance with Article 170-27 Section C (1), and in the Wetlands Protection District in accordance with Article 170-27.1 Section F (1):

> "Article 170-27 Section C (1): *Conditional Use Permits may be granted by the PLANNING BOARD for the following uses within the* ***Conservation District****: (1) STREETs, roads and other access ways and utility rights-of-way, communications equipment, easements, including power lines and pipe lines, if essential to the productive use of land not so zoned and if so located and constructed as to minimize any detrimental impact of such uses upon the wetlands or other environmentally sensitive areas, where it is physically impossible to locate such ways over land not so zoned."*
>
> "Article 170-27.1 Section F (1): *Conditional use approval may be granted by the PLANNING BOARD (RSA 674:21II) after proper public notice and public hearing, for construction within the* ***Wetland Protection District*** *or buffer. Said construction may include but is not limited to, a road or other accessway, utility right-of-way, communication lines, power lines and pipelines, STRUCTUREs, and parking LOTs provided that the proposed construction complies with the following standards [emphasis added.]*

Therefore, Eversource is requesting the CUPs for activities and temporary impacts to wetland buffer areas within the Conservation District and the Wetlands Protection District and has outlined compliance with City of Dover zoning standards in the attached project narrative, which is being submitted in accordance with Articles 170-27 and 170-27.1 of the zoning ordinance. These five CUP applications (one per project map sheet) are being submitted, in total, for approximately 19,734 square feet (0.45 acres) of temporary tidal

Reference: Conditional Use Permit Application, Eversource Energy, R169 Structure Replacement Project

buffer resource impacts (to be restored) and 1,515 square feet (0.03 acres) of temporary stream buffer resource impacts (timber matting) in the Conservation District. In the Wetland Protection District, the following impacts are anticipated: approximately 56,885 square feet (1.31 acres) of temporary wetland impacts (matting), 26,838 square feet (0.62 acres) of temporary impacts within wetland buffers (matting), and 29,941 square feet (0.69 acres) of permanent impacts within upland wetland buffer areas for gravel access road and work pad construction.

The proposed work is for direct “in-kind” replacements of cracked and damaged poles, and no new pole locations are proposed within the R169 ROW in Dover. New structures will be in the same general footprint as existing and do not represent a significant footprint expansion within the Conservation District and the Wetlands Protection District or consist of substantial disturbances beyond those historically created by the transmission line. Disturbed areas will be protected with erosion and sediment control measures, and strategies will be implemented to stabilize and allow for re-vegetation of exposed soils.

This submittal includes a digital copy of each of the five CUP application packages. The filing fee of $1,000 ($200 per application x 5 CUP applications [one per project map sheet]) is included in the online submittal with this application. We understand that the City of Dover will calculate and invoice for abutter and notice fees; therefore, we have assumed these fees will be paid at a later date and have not included them with this application.

Additional state and federal wetland and shoreland permit applications are being prepared and submitted for the Project. Permit approvals will be forwarded to the City of Dover as required and/or requested.

Sincerely,

STANTEC CONSULTING SERVICES INC.

Jess S. Hunt
Senior Associate, Environmental Services
Phone: (603) 557-4662
jessica.hunt@stantec.com

Andrew Ackerman
Senior Environmental Scientist, Environmental Services
Phone: (603-413-7731
andrew.ackerman@stantec.com

Attachment: Conditional Use Permit Applications

cc. Travis Yandow and Kurt Nelson, Eversource

Conditional Use Permit Application

R169 Structure Replacement Project
Dover, New Hampshire

December 22, 2023

Prepared for:

Public Service Company of New Hampshire d/b/a Eversource Energy
13 Legends Drive
Hooksett, NH 03106

Prepared by:

Stantec Consulting Services Inc.
30 Park Drive
Topsham, ME 04086

Table of Contents

1.0 PROJECT INTRODUCTION AND PURPOSE 1

2.0 EXISTING CONDITONS 2

3.0 PROJECT DESCRIPTION AND PROPOSED CONDITIONS 3
3.1 LINE REBUILD: STRUCTURE REPLACEMENT, CONDUCTOR AND OPGW REPLACEMENT 3
3.2 ACCESS 4
3.2.1 Road Construction 4
3.2.2 Wetland and Upland Temporary Matting 4
3.2.3 Work Pad Construction 5
3.3 CONSTRUCTION SEQUENCE 5
3.4 BEST MANAGEMENT PRACTICES 6
3.4.1 Erosion and Sedimentation Control 6
3.4.2 Invasive Species Control Plan 6
3.4.3 Construction Observation and Post Construction Monitoring 6

4.0 OVERLAY ZONING DISTRICT IMPACTS AND ACTIVITIES 7
4.1 WETLAND PROTECTION DISTRICT 8
4.2 CONSERVATION DISTRICT 11
4.3 IMPACT AREAS 13
4.3.1 Impact Area 1 13
4.3.2 Impact Area 2 14
4.3.3 Impact Area 3 14
4.3.4 Impact Area 4 14
4.3.5 Impact Area 5 14

LIST OF FIGURES

Figure 1 USGS Site Location

R169 – Dover CUP Permit Map Set, Dover, NH

LIST OF APPENDICES

APPENDIX A WETLAND DELINEATION REPORT

1.0 PROJECT INTRODUCTION AND PURPOSE

Public Service Company of New Hampshire d/b/a Eversource Energy (Eversource) owns and maintains the R169 electrical transmission line that passes through Dover, New Hampshire. Eversource has identified 19 existing wooden structures that need to be replaced on the R169 line (18 in Dover, New Hampshire, and 1 in Eliot, Maine) due to age, cracking, leaning, rot, and/or woodpecker damage, which constitutes the proposed R169 Structure Replacement Project (Project). The existing wooden structures will be replaced with new, steel structures that adhere to current safety and electrical codes to provide more reliable electrical infrastructure.

The R169 Line right-of-way (ROW) begins at the Three Rivers Substation in Eliot adjacent to the Piscataqua River and traverses westerly over the river into Dover, then continues westerly through Dover approximately 3 miles for the remainder of the length of the transmission line to the Dover Substation.

Chapter 170 of the local Zoning Ordinance of the City of Dover, New Hampshire, establishes regulations and guides appropriate use of land. The existing utility ROW and proposed structure replacement activities in Dover bisect various city zoning districts, including the Rural Residential (R-40), Medium Density Residential (R-12), and Urban Density Multi Residential (RM-U) zoning districts and the Cocheco Waterfront District (CWD). The ROW and proposed Project activities also intersect two natural resource protection overlay districts—the Conservation District (per Article 170-27) and the Wetland Protection District (per Article 170-27.1). The purpose of these two overlay districts is to avoid and minimize development impacts to, and similarly conserve, local rivers, streams, wetlands, and flood-prone or steep, erosion-prone areas of Dover. The Project has taken into consideration each the objectives of these overlay districts in the development of construction plans and activities around the identified sensitive resources.

The proposed Project activities require a Conditional Use Permit (CUP) from the City of Dover (hereafter, City) Planning Board for those activities that occur within the Conservation District and the Wetland Protection District per the City's Local Zoning Ordinance (as amended, September 2022) and subsequent guidance from the City Planning and Community Development Department. This CUP application presents the applicable information associated with the Project. In addition to the 18 proposed replacement structures in Dover, Eversource previously identified five utility structures for replacement along the R169 line. A CUP application (#406-22) for the replacement of those five structures was submitted to the City in July 2022 and approved by the Planning Board on July 21, 2022. Replacement of those five structures has been completed.

In accordance with NH RSA 482-A:3 XV, routine utility maintenance work is exempt from the standard NH wetland permit process. However, Eversource is required to submit a Utility Maintenance Activity Statutory Permit-by-Notification, Shoreland Permit-by-Notification, and Alteration of Terrain permit application to the New Hampshire Department of Environmental Services (NHDES) to cover the temporary wetland impact associated with use of timber matting within wetlands required to

complete the proposed structure replacement work, impacts within the developed portions of the Protected Shoreland of the Cocheco River, and proposed upland ground disturbance.

2.0 EXISTING CONDITONS

The existing cleared R169 ROW varies from approximately 100 feet (ft) in most areas to 250 ft wide where the ROW is shared with additional transmission lines near the Piscataqua River. The Project ROW consists of Eversource fee-owned property or Eversource-controlled easements. From the Piscataqua River to the Dover Substation, the ROW traverses westerly through forested, residential, and agricultural landscapes. The ROW primarily crosses rural areas and local roads, as well as the Cocheco River and the Piscataqua River. The topography varies from flat lowlands and fields to undulating hills and steep side slopes. Elevations range from 0 to 90 ft above mean sea level. Soils within the ROW consist primarily of loam and silty loam (see attached CUP plans).

The open upland natural communities in the ROW consist of early successional shrub, sapling, and herbaceous species. Characteristic woody vegetation includes gray birch (*Betula populifolia*), quaking aspen (*Populus tremuloides*), red maple (*Acer rubrum*), sheep-laurel (*Kalmia angustifolia*), late lowbush blueberry (*Vaccinium angustifolium*), white meadowsweet (*Spiraea alba*), Allegheny blackberry (*Rubus allegheniensis*), American hazelnut (*Corylus americana*), red oak (*Quercus rubra*), and red raspberry (*Rubus idaeus*). Commonly observed herbaceous vegetation in the ROW includes little Canada mayflower (*Maianthemum canadense*), wrinkle-leaf goldenrod (*Solidago rugosa*), Canada goldenrod (*Solidago canadensis*), bracken fern (*Pteridium aquilinum*), hay-scented fern (*Dennstaedtia punctilobula*), wild strawberry (*Fragaria virginiana*), bristly dewberry (*Rubus hispidus*), Kentucky blue grass (*Poa pratensis*), and other common grass and wildflower species. Non-native invasive species such as rambler rose (*Rosa multiflora*), Japanese barberry (*Berberis thunbergii*), Morrow's honeysuckle (*Lonicera morrowii*), and glossy false buckthorn (*Frangula alnus*) are present in moderate abundance.

Stantec consulted with the New Hampshire Natural Heritage Bureau, the New Hampshire Fish and Game Department, and the US Fish and Wildlife Service as required for NHDES and US Army Corps of Engineers (USACE) permitting. There were three state-listed wildlife species, three state-listed plant species, and three federally listed wildlife species noted in the vicinity of the Project. Eversource proposes to follow agency recommendations and permit conditions as part of this Project and will conduct recommended surveys as needed.

One potential vernal pool and 23 wetlands were identified within the ROW during a delineation conducted by Stantec (Tom Tetreau, New Hampshire Certified Wetland Scientist #283) in June 2023; results of the wetland survey can be found in Appendix A.

The 307 transmission line ROW intersects the R169 ROW from the south near proposed structure 6 to the Piscataqua River; the nearby 307 line ROW will be utilized for access only. Existing access roads traverse portions of both ROWs. These access roads are unpaved with mostly a loamy sand base with occasional stretches consisting of previously installed stone. The access roads are generally 8 to 12 ft wide in most areas.

Routine vegetation maintenance is performed along the R169 ROW on an approximate 4- to 5-year cycle. The last vegetation maintenance was performed along portions of the R169 ROW in summer 2023. Trees and shrubs capable of growing to heights that could interfere with conductors are trimmed and allowed to regenerate until the next maintenance cycle. Prior to the start of construction, areas around proposed access roads and pads will need additional mowing within the ROW.

3.0 PROJECT DESCRIPTION AND PROPOSED CONDITIONS

3.1 LINE REBUILD: STRUCTURE REPLACEMENT, CONDUCTOR AND OPGW REPLACEMENT

The proposed Project includes replacement of 18 existing wooden transmission line structures along the R169 line in Dover. The replacement (new) structures will be within 10 ft of the previous structure location, with two exceptions: proposed structure 13 will be approximately 140 ft from the existing structure location to avoid wetland and impacts, and proposed structure 20 will be approximately 40 ft from the existing location. A majority of the new structures will be approximately 5 to 10 ft taller than the previous structures to comply with current electrical standards. The one structure proposed for a reduction in height is structure 27, within the shoreland of the Cocheco River, which will be reduced from the current 135 ft to 120 ft. The shorter structure allows for a reduced construction footprint and minimizes potential impacts to the sensitive shoreland area.

The structure replacement process consists of drilling holes near the existing structures and installing a caisson, also referred to as a can, below the ground surface. The new structure is installed in the can and backfilled with clean, suitable rock or gravel material. Spoils produced from drilling the hole will be disposed of in an approved upland location away from wetland areas and will be stabilized with an appropriate conservation/contractor's seed mix and weed-free straw mulch. Some replacement structures may require anchors. Anchors will be installed by excavating trenches, installing concrete block anchors, and backfilling trenches. If soil conditions allow, screw anchors may be installed to minimize ground disturbance. Temporary swamp mats (i.e., matting) will be utilized to access structures located within delineated wetlands or wetland areas that must be crossed for access. Mats will also be used on some occasions to minimize impacts to maintained yards or farmed upland areas. Once the new structure is installed and stable, the wires from the old structure will be transferred to the new structure. Old structures will be cut and removed from the ground in upland locations. To minimize ground disturbance, old structures in wetlands are typically cut flush with the ground surface. In some cases, the bottom of the old structure may be able to be pulled from the wetland with minimal disturbance to the wetland. All construction materials and old structure pieces will be removed and disposed of off-site at an approved disposal facility.

Following completion of the structure replacement and wire work, temporary timber construction mats will be removed. Disturbed wetland areas will be restored and stabilized with weed-free straw mulch. Temporarily disturbed upland areas will also be restored and stabilized through seeding and mulching. Permanently disturbed wetland buffer areas will remain as permanent features. Seed and mulch will be

applied along the shoulders and side slopes of the access roads as necessary and the established access roads will be left in place, with the exception of the area around proposed structures 27 and 28, which will be entirely restored. The work pads and new access road between proposed structures 27 and 28 will be re-contoured to the existing grade, covered with topsoil that was stockpiled during the initial grading, and stabilized with seed and mulch.

Minor tree clearing is proposed as maintenance within the existing access road off Cocheco Street and within the existing ROW near proposed structures 27 and 28 as part of the Project. The Project will submit a Protected Shoreland Permit by Notification to address proposed selectively cut trees in the upland shoreland areas.

3.2 ACCESS

The proposed Project utilizes existing access roads within the R169 line ROW and existing access within the 307 line ROW wherever possible. The majority of the existing access roads are made up of dirt or gravel areas and are proposed to be improved, as necessary, through the addition of clean stone as part of the Project to allow for construction vehicle access. Proposed access roads are shown on the attached map set. Access road entrances are located off local roadways and utilize existing entrances wherever possible. Driveways permits are not anticipated to be required from the City. There are no state-owned roads in the project area; therefore, temporary driveway permits from the New Hampshire Department of Transportation will not be required for construction. The proposed access roads were sited to minimize ground disturbance and temporary wetland impacts to the greatest extent practicable while providing safe and efficient access to the existing structures. Timber matting will be used to cross all wetland and stream resources that cannot be avoided completely.

3.2.1 Road Construction

Proposed upland access road improvements include construction of approximately 12- to 16-ft-wide gravel and stone roads within the ROW and in some cases adjacent to the ROW. The roads will provide access to existing utility structures for replacement activities. The improved access roads will provide reliable, permanent access to utility infrastructure during future maintenance or emergency repairs. Where possible, the proposed access roads will be located on top of existing dirt roads or trails. If no existing routes are available or suitable, a new road will be constructed. Minor grading may be necessary to remove large boulders and create a flat surface for the new rock or gravel.

Project plans require tree removal along the widening the existing access road off Cocheco Street to proposed structures 27 and 28 to a width of 12 ft to accommodate equipment for the structure replacements. Tree removal at this location will occur within the existing utility ROW and along the existing access road on Eversource property and will be conducted between November 1 and April 14 to avoid potential impacts to federally listed wildlife species if present.

3.2.2 Wetland and Upland Temporary Matting

Access through maintained fields and private property within uplands and delineated wetlands in the Project area will utilize temporary timber construction mats to minimize ground disturbance and prevent

rutting. Where necessary in overly saturated conditions, runners (mats placed parallel to the direction of travel) will be placed on the wetland surface prior to setting the top, perpendicular layer of mats. This will help reduce settling and overall wetland disturbance.

3.2.3 Work Pad Construction

The proposed Project includes construction of 18 structure replacement work pads approximately 100 ft by 100 ft each, with some exceptions. With the exception of work pads located within wetlands, upland work pads will be constructed using clean stone. The work pads will be top dressed with compacted 1.5- to 3-inch-diameter clean stone. After the structure replacement work is complete, restoration of upland work pads will consist of utilizing stockpiled topsoil to reduce work pads to approximately 30 ft by 60 ft. Restored areas will be stabilized with seed and mulch. Proposed work pads located in wetland areas will be constructed using temporary timber construction mats and will be removed upon completion of the work.

3.3 CONSTRUCTION SEQUENCE

The general Project construction sequence will be:

1. Installation of appropriate signage along public roads near construction entrances;
2. Installation of erosion control devices, as needed;
    a. Erosion control practices will follow the *Best Management Practices Manual for Utility Maintenance in and Adjacent to Wetland and Waterbodies in New Hampshire* (Utility BMP Manual) published by the New Hampshire Department of Natural and Cultural Resources (March 2019).
3. Placement of construction mats in wetlands for access roads and work pads;
4. Grading and improvements of upland access roads and work pads;
5. Stabilization (seed and mulch) of exposed soils on created side slopes;
6. Replacement of structures:
    a. Drill new structure holes;
    b. Install new poles and structure components;
    c. Transfer electrical lines from old structure to new structure; and
    d. Remove and haul away old structure.
7. Clean up excess/stockpiled material at work pads;
8. Smoothing/grading upland work pads and stabilizing and restoring with seed and mulch as necessary;
9. Removing construction mats from wetland areas and stabilizing/restoring disturbed wetland areas with weed-free straw mulch; and

10. Stabilization, restoration, and clean up staging areas and entrance points.

Provided necessary permits are in place and to the extent possible, work would begin in April 2024 and continue through fall 2024. Entrances, access roads, and work pads will be created prior to structure replacement work. New structure holes will likely be drilled prior to mobilization of structure replacement equipment (cranes, bucket trucks). Installing new poles and transferring wires will be completed prior to moving on to the next structure. Multiple structure replacement crews may be working in different areas to expedite the process. Removal of mats and restoration will occur as individual work areas are completed.

3.4 BEST MANAGEMENT PRACTICES

3.4.1 Erosion and Sedimentation Control

Work will be conducted in accordance with the Utility BMP Manual. Following these BMPs will minimize and avoid impacts to wetland and stream resources and the surrounding upland areas to the greatest extent practicable.

Perimeter erosion controls consisting of silt fence, straw wattles, mulch, and straw bales will be installed as necessary around the work areas to minimize potential impacts to adjacent resource areas. Water bars, also known as diversion ditches, will be installed along access roads with steep slopes, where necessary, to prevent water from traveling long distances down the road causing erosion. Water bars will direct water off the road into adjacent upland areas. Exposed soil created during construction will be stabilized with seed and mulch as soon as possible after active work in the area is complete. No equipment or material will be stored within wetland areas.

3.4.2 Invasive Species Control Plan

Due to the developed landscape surrounding the majority of the R169 line, invasive plant species occur within the ROW and were observed during field surveys. Contractors will follow the invasive species recommendations in the Utility BMP Manual to help prevent the spread of invasive species, including inspection and cleaning of equipment and contractor training. Equipment, including construction mats, brought to the Project area will be inspected by the contractor and/or environmental monitor, and if plant material or soil is present, the equipment will be cleaned and dried prior to use on the Project. Contractors will be familiar with identification of common invasive species and will be required to clean mats and equipment prior to their use elsewhere. If possible and without increasing wetland impacts, the contractors may also make slight shifts in access roads or work pads to avoid invasive species locations.

3.4.3 Construction Observation and Post Construction Monitoring

During construction, Eversource will contract an environmental monitor to perform routine construction observation visits. The environmental monitor will inspect the Project area for compliance with the Utility BMP Manual and applicable Project permits and conditions. Construction observation visits will occur at least once per week and/or after a significant rainfall (0.5 inches or greater) or snow melt event. Under the National Pollutant Discharge Elimination System, Eversource will file a Notice of Intent and

Stormwater Pollution Prevention Plan (SWPPP) under the U.S. Environmental Protection Agency's Construction General Permit. Construction observation visits and associated reporting will follow the SWPPP and Construction General Permit guidelines and be performed by a qualified individual familiar with the SWPPP, Utility BMP Manual, and Project specific permit conditions.

A series of post-construction monitoring visits in the Project area will be performed by a qualified environmental scientist to document that disturbed areas are properly stabilized and vegetation is beginning to regrow. Site restoration will be considered successful when there is at least 85% cover by native or non-invasive herbaceous plant species within the restored portions of the ROW, including restored wetland areas. This does not include gravel work pads or access roads that existed prior to construction or were created during construction, with the exception of the gravel work pads and road for proposed structures 27 and 28, which will be restored to natural grade, topsoil spread, and stabilized with seed and mulch. The environmental scientist will prepare a report following each post-construction monitoring visit that includes representative photographs and corrective actions (if applicable). Once the disturbed uplands and temporarily impacted wetlands within the Project area are determined to be permanently stabilized, post-construction monitoring will be considered complete, and a Notice of Termination will be filed under the U.S. Environmental Protection Agency's Construction General Permit.

4.0 OVERLAY ZONING DISTRICT IMPACTS AND ACTIVITIES

The ROW and proposed Project activities intersect natural resource protection overlay districts in Dover, including the Conservation District and the Wetland Protection District. The following summarizes the Project-specific components in the respective overlay districts.

Proposed temporary impacts to wetlands were minimized to the maximum extent practical during project planning. This included modifications to ROW access, reducing the size and positioning of the proposed utility poles, the utilization of timber matting and/or tracked equipment, and the location and orientation of work pads. Timber matting will be installed to completely span streams, where necessary, to avoid impacts to the stream bed and banks.

For the purposes of this CUP, resource impacts have been divided into 5 Impact Areas and corresponding map sheets, as shown per wetland and stream in the attached map set and in Table 1. Given the overlapping overlay districts and associated buffers, impacts were quantified in Table 1 below by direct resource impact and overlay district buffer impacts. The district buffers were established by taking the farthest buffer (such as when a stream channel is encompassed by a surrounding wetland, the larger Conservation District buffer was used).

Table 1: City of Dover Proposed Wetland Protection and Conservation District Impacts

District	Resource Impacts (SF)	Impact Area 1 (Map Sheet 1)	Impact Area 2 (Map Sheet 2)	Impact Area 3 (Map Sheet 3)	Impact Area 4 (Map Sheet 4)	Impact Area 5 (Map Sheet 5)
Wetland Protection District	Temporary Wetland Impact	-	742	23,279	3,188	29,676
	Temporary Wetland Buffer Impact	5,526	1,802	16,716	1,852	942
	Permanent Wetl and Buffer Impact*	-	-	29,941	-	-
Conservation District	Temporary Area Subject to Tidal Action Buffer Impact	19,734	-	-	-	-
	Temporary Stream Resource Buffer Impact	-	1,515	-	-	-
Overlapping Districts		5,526	773	-	-	-
	Total	**25,260**	**4,059**	**69,936**	**5,040**	**30,618**

*Based on 12-ft disturbance area for new gravel access
Overlapping Districts are illustrative of how much districts overlap and not part of total for each Map Sheet.

4.1 WETLAND PROTECTION DISTRICT

The Wetland Protection District includes all areas of wetlands and 50-ft wetland buffers, as defined in Dover Zoning Ordinance, Article 170-27.1. Project activities subject to a CUP that are within the Wetland Protection District are limited to temporary placement of timber mats in wetlands and at stream crossings and the creation of stone work pads and access road improvements in wetland buffer areas. New structures will be placed in the same general location as the existing structures, as described in section 3.1 above. The proposed access roads were sited along existing roads or trails wherever possible.

The Project will meet the following Wetland Protection District standards for Conditional Use Approval, as outlined in the Dover Zoning Ordinance, Article 170-27.1F(1).

(a) *Practicable Alternative: There is no practicable alternative that would have a less adverse impact on the area.*

The Project site is an existing transmission line within a utility ROW. The proposed structure replacement work is necessary to maintain reliability and safe operation of the existing R169 line. Alternative locations would require creation of a new ROW, and increased impacts to resources and the surrounding landscape and were not considered. The replacement structures must be located on the alignment of the existing transmission line and must be located within the existing ROW. The Project has been designed to reduce the footprint of the construction as much as

possible. For example, the proposed access route between structures 14 and 15 was designed to utilize a narrow upland area on the south side of the ROW to minimize wetland impacts as much as possible while maintaining required clearances for working equipment from overhead wires and adjacent tree lines. For example, in addition to reducing the height and footprint of proposed structure 27 near the Cocheco River, the Project proposes to move access roads to uplands where possible, completely restore impacted areas adjacent to the Cocheco River, smooth/grade upland work pads, and stabilize and restore with seed and mulch as necessary.

Upland work pads, other than those near the Cocheco River, are typically restored to an approximately 30-ft by 60-ft size. Topsoil pushed to the sides during the initial construction will be used to cover the work pads. Exposed soils will be stabilized with seed and mulch. Temporary construction mats will be removed from wetland areas as soon as work is complete and wetland areas will be stabilized/restored with weed-free straw mulch, if necessary. Matting will be removed in a similar manner to how it was installed.

(b) *Avoidance: The potential impacts have been avoided to the maximum extent practicable. The APPLICANT will demonstrate by plan and example that the proposed construction represents the least impacting alternative.*

The proposed structure replacements have been designed to avoid permanent fill and loss of wetland and stream areas by utilizing upland areas as much as possible and using temporary construction mats. The mats will result in minimal temporary disturbance of the shrub and herbaceous vegetation underneath, but the vegetation is expected to quickly recover following removal of the construction mats after construction is complete. Mats will be used to span streams and will not disturb streambanks or modify hydrology.

Wetlands will be protected from stormwater runoff through erosion and sedimentation control measures, and exposed soils will be stabilized in accordance with the measures discussed in Section 3.4.1. Additionally, appropriate siltation prevention measures will be implemented and inspected during construction and post-construction to prevent erosion, siltation, and turbidity. The erosion control methods and materials will follow the Utility BMP Manual. Perimeter controls (silt fence, straw bales, straw wattles, etc.) will be installed along the limits of work to protect adjacent resources and off-site area. If necessary, other BMPs including stone check dams and dewatering basins will be used to control and treat stormwater and prevent runoff to abutting or downslope properties.

The tidal wetland, wetland W02 associated with the Cocheco River, will be completely avoided by construction activities. Work will occur within the adjacent upland only, and erosion and sedimentation controls will be installed prior to ground disturbance to protect the wetland and river.

(c) *Minimization: Any unavoidable impacts have been minimized. No reasonable Alternative to the proposed construction exists which does not impact a wetland or which has less detrimental impact on a wetland. Design, construction and maintenance methods will be*

prepared by a registered engineer to minimize detrimental impacts to the wetlands and will include restoration of the site as nearly as possible to its original grade.

The Project is designed to replace existing infrastructure in an existing and maintained utility ROW. The Project does not propose any permanent impacts directly to surface waters or wetlands. Areas where district buffers are impacted have been reduced by using upland matting adjacent to wetlands in some areas and by reducing the overall footprint of structure work pads in others. Additionally, where ground disturbance and work area construction will occur near wetlands, appropriate erosion prevention measures will be implemented during construction and post-construction to prevent the migration of sediment laden runoff from reaching the adjacent wetlands. These areas will be inspected regularly for correct installation and to confirm that they remain effective erosion prevention measures.

The erosion control prevention and sediment control methods and materials will follow the Utility BMP Manual. Perimeter controls (silt fence, straw bales, straw wattles, etc.) will be used to protect adjacent resources and off-site areas. If necessary, other BMPs including stone check dams and dewatering basins will be used to control and treat stormwater and prevent runoff to abutting or downstream properties.

Temporary wetland and wetland buffer impacts will be avoided and minimized by following the Utility BMP Manual. This includes:

- Using wooden construction mats to support machinery in wetlands;
- Removing and restoring temporary impacts to wetlands, if necessary;
- Smoothing rutted areas, seeding as required, and mulching with weed-free straw;
- Using erosion and sediment controls as needed where ground disturbing activities are adjacent to wetland areas;
- Requiring contractors to follow practices outlined in the Utility BMP Manual to help prevent the spread of invasive species; and
- Conducting weekly inspections to monitor compliance with minimization measures and providing any site restoration recommendations as needed.

The new structure locations and associated structure components were designed by Eversource's engineers. Work and access roads were designed based on the results of the wetland delineation performed by a New Hampshire Certified Wetland Scientist and a constructability field review by Eversource engineers and construction personnel.

(d) Mitigation: If the APPLICANT is required by State rules to prepare a compensatory mitigation plan, the APPLICANT shall provide the Conservation Commission and PLANNING BOARD with one copy each of said plan for their review.

The Project will require temporary matting impacts to wetlands but will not result in permanent loss of any wetland area or permanent alterations to the wetland hydrology or associated vegetation; therefore, a compensatory mitigation plan is not proposed for the work in any of the

five Impact Areas. Additionally, the applicant has consulted with the NHDES Wetlands Bureau, which has concurred with the minimum impact determination for the R169 Project.

(e) *Approval for the wetlands impact has been received from the NHDES Wetlands Bureau pursuant to Section G (3), below.*

A Wetlands Utility Maintenance Activity SPN will be submitted for the Project. On November 16, 2023, Eversource met with the NHDES Wetlands Bureau and the USACE. During this meeting, a determination was made that the Project qualified for a 'minimum impact' since there are no permanent impacts to delineated wetlands, vernal pools, streams or other sensitive resources associated with the Project and Eversource will minimize temporary impacts and restore permanent upland impacts. The SPN application and NHDES and USACE permit approvals will be forwarded to the City as required and/or requested. Additional pending approvals are listed in Section 4.2 below.

4.2 CONSERVATION DISTRICT

The Conservation District includes water bodies, rivers, streams, swamps and marshes subject to tidal action and those areas within a minimum of 100 ft of each, as defined in Dover Zoning Ordinance, Article 170-27. The Conservation District also includes specific lots as defined in Article 170-27, as well as areas with slopes 20% and more than 2,000 square feet (sf) of contiguous area, neither of which is located within the Project area. Project activities subject to a CUP that are within the Conservation District are limited to temporary placement of timber mats at stream crossings and creation of stone work pads and access road improvements in river and stream buffer areas. New structures will be placed in the same general location as the existing structures. The proposed access roads were sited along existing roads or trails wherever possible.

The Project will meet the following Conservation District standards for Conditional Use Approval, as outlined in the Dover Zoning Ordinance, Article 170-27.C(2).

(a) The APPLICANT shall demonstrate that the proposed use is essential to the productive use of land not in the district; is located and constructed to minimize any detrimental impact of such use upon the surface waters or other environmentally sensitive areas, where it is physically impossible to locate such use on land not in the district; and economic advantage alone shall not be deemed a sufficient reason for such proposed use.

Approval of this CUP application would allow Eversource to maintain critical infrastructure necessary to provide the public with reliable electricity. The existing structures and line are currently located within the Conservation District and would remain as such following the structure replacements. The proposed Project is in the public's interest (versus economic advantage to Eversource) because the structure replacements will allow for the continued supply of reliable electricity to Eversource's customers. The avoidance and minimization efforts described above in section 4.1 for the Wetland Protection District also apply to the Conservation District.

(b) *A soil erosion and sedimentation control plan is submitted and followed to verify the planned avoidance of sediment pollutant runoff to bodies of water. This plan will address the following (if applicable), but should not be limited to:*

(i) stabilization of exposed soils and soil stockpiles;
(ii) protection of steep slopes from erosion;
(iii) construction site waste management;
(iv) inspection and maintenance of runoff control measures (BMPs);
(v) minimization of land clearing;
(vi) stabilization of drainage ways;
(vii) installation of perimeter controls;
(viii) installation of sediment trapping devices; and
(ix) storm drain inlet protection.

Erosion and sedimentation control practices will follow the Utility BMP Manual). Typical erosion and sedimentation controls devices used within the ROW may consist of silt fence, straw wattles, stone check dams, and/or hay and weed-free straw mulch stabilization. Erosion and sedimentation control notes and details are included on the attached map set. Approximate locations of erosion and sedimentation controls are shown around proposed work areas and access roads on the attached map set. Installation and maintenance of erosion and sedimentation controls will occur throughout the construction phase of the project. The controls will be inspected regularly by Eversource's contractors and environmental monitors and maintained and/or replaced as needed. Additional details are provided in sections 3.3 and 3.4 above.

(c) Necessary state and federal approvals have been applied for. Said permits shall be received prior to the issuance of the Conditional Use Permit by the Planning and Community Development Department.

Regulatory permits, approvals, and notifications required for the proposed Project are summarized below. The City will be provided copies of permit approvals when they are received. Given the review periods associated with some of the required permits, Eversource requests that the City condition approval of the CUP so that permit may be provided as they are received, rather than prior to the issuance of the CUP. The following state and federal permits are anticipated to be required for the Project:

- NHDES Utility Statutory Permit by Notification (submitted)
- NHDES Protected Shoreland Permit by Notification (pending submission)
- NHDES Alteration of Terrian Permit (submitted)
- USACE Pre-Construction Notification (pending submission)
- USACE Section 408 Variance Approval (pending)

(d) *A written review by the Conservation Commission of the environmental effects of the proposed use upon the area in question has been submitted. The Commission's review shall address the following, but is not limited to:*

(i) attempted avoidance of the impact;

(ii) minimization of the impact;

(iii) planned mitigation of the effects of the impact; and

(iv) efficacy of the soil erosion and sedimentation control plan.

Watercourses and surface waters have been avoided to the extent possible, and no alterations of banks or natural geomorphology are proposed. Temporary construction mats will be used to bridge, and avoid, stream areas; mats will be removed following construction. Conditions or requests for information related to environmental effects made by the local Conservation Commission will be documented and applied to the project where feasible.

4.3 IMPACT AREAS

Anticipated temporary and permanent impacts within the Conservation District and Wetland Protection District are summarized by Impact Area in Table 1 and described per area below. Each area corresponds with respective map sheets (Impact Area 1 corresponds with Map Sheet 1, etc.) in the attached CUP permit map set. Temporary impacts include timber matting and areas that will be restored post-construction, and permanent impacts within buffers are for gravel access road and work pad construction. Most of the impacts across the five impact areas (Map Sheets 1–5) occur in the Wetland Protection District and of those impacts 64% are temporary; the remaining 36% are permanent impacts in upland wetland buffer areas (see Impact Area discussions below for more details).

4.3.1 Impact Area 1

Within the Wetland Protection District, anticipated impacts in Impact Area 1 include approximately 5,526 sf of temporary impacts within wetland buffer areas of wetland W02 (overlaps 100% with areas subject to tidal action in the Conservation District), and approximately 19,734 sf of temporary impacts within the buffer area of areas subject to tidal action in the Conservation District. These temporary impacts associated with the creation of access roads and work pad construction are necessary to complete the replacement of proposed structures 27 and 28. Disturbances associated with these structure replacements will be fully restored once construction is complete, and no permanent impacts are anticipated in either District.

Impacts were avoided and minimized to the greatest extent practicable by minimizing the length of the new access road, locating access roads and work pads outside of wetland boundaries and wetland buffers, where possible, utilizing existing disturbances/access roads, and reducing the construction footprint and restoring areas along the Cocheco River shoreland that are within the Wetland Protection and Conservation Districts.

4.3.2 Impact Area 2

Within the Wetland Protection District, anticipated impacts in Impact Area 2 include approximately 742 sf of temporary wetland impacts (i.e., timber matting) and approximately 1,802 sf of temporary impacts in wetland buffer areas to cross wetland W11 and stream S04 along the access route between proposed structures 18 and 19. Within the Conservation District, approximately 1,515 sf of temporary impacts in stream buffer areas are anticipated. Overlapping buffer areas include approximately 773 sf of temporary impacts. Areas within and surrounding the Districts are existing fields and residential areas, and temporary upland matting will be used to avoid ground disturbance at the landowner's request. No permanent impacts are anticipated within either District.

4.3.3 Impact Area 3

Within the Wetland Protection District, anticipated impacts in Impact Area 3 include approximately 23,279 sf of temporary wetland impact (i.e., timber matting), approximately 16,716 sf of temporary impact in wetland buffer areas, and approximately 29,941 sf of permanent impact in wetland buffer areas to create the access road and work areas associated with proposed structures 13 through 18, across wetlands W12 through W16.

Impact Area 3 is the only Impact Area on the R169 line where upland buffer area impacts are proposed to be permanent (see Table 1 and Map Sheet 3 of 5). The permanent impacts are a result of the proposed 100-ft by 100-ft gravel work pads around proposed structures 14, 15, 16, and 18. In the case of the pads at proposed structures 14, 15, and 18, a portion of the 100-ft by 100-ft pad area will be gravel, with the remaining pad area constructed using temporary wetland matting. In these three locations, it is likely that the temporary matting will cover an even greater proportion of the pad area. Proposed structure 16 is the sole location where the entire pad is proposed to be gravel, and this location is entirely upland. No temporary or permanent impacts are anticipated within the Conservation District in Impact Area 3.

4.3.4 Impact Area 4

Within the Wetland Protection District, anticipated impacts in Impact Area 4 include approximately 3,188 sf of temporary wetland impact (i.e., timber matting) and approximately 1,852 sf of temporary impact in wetland buffer areas. Temporary impacts to wetlands and buffers include access across wetland W17 between proposed structures 9 and 10, and work areas and access in wetland W18 at proposed structure 7; no permanent impacts are anticipated due to landowner requests to use upland matting to protect existing field areas. No Conservation Districts are present in Impact Area 4.

4.3.5 Impact Area 5

Within the Wetland Protection District, anticipated impacts in Impact Area 5 include approximately 29,676 sf of temporary wetland impact (i.e., timber matting) and approximately 942 sf of temporary impact in wetland buffer areas to create work areas and access in wetland W18 associated with proposed structure 6; no permanent impacts are proposed. The Project will utilize an existing gravel access road from the 307 line ROW to proposed structure 6 to traverse through the Conservation Districts associated with

streams S05, S06, and S07 to avoid temporary and permanent impacts within those buffers. No work is proposed within the Conservation District associated with the Piscataqua River.

PHOTOGRAPHS

R169 STRUCTURE REPLACEMENT PROJECT
CUP APPLICATION - REPRESENTATIVE PHOTOGRAPHS

December 22, 2023

Photo 1. View of W14 near proposed structure 14. Stantec. June 9, 2023.

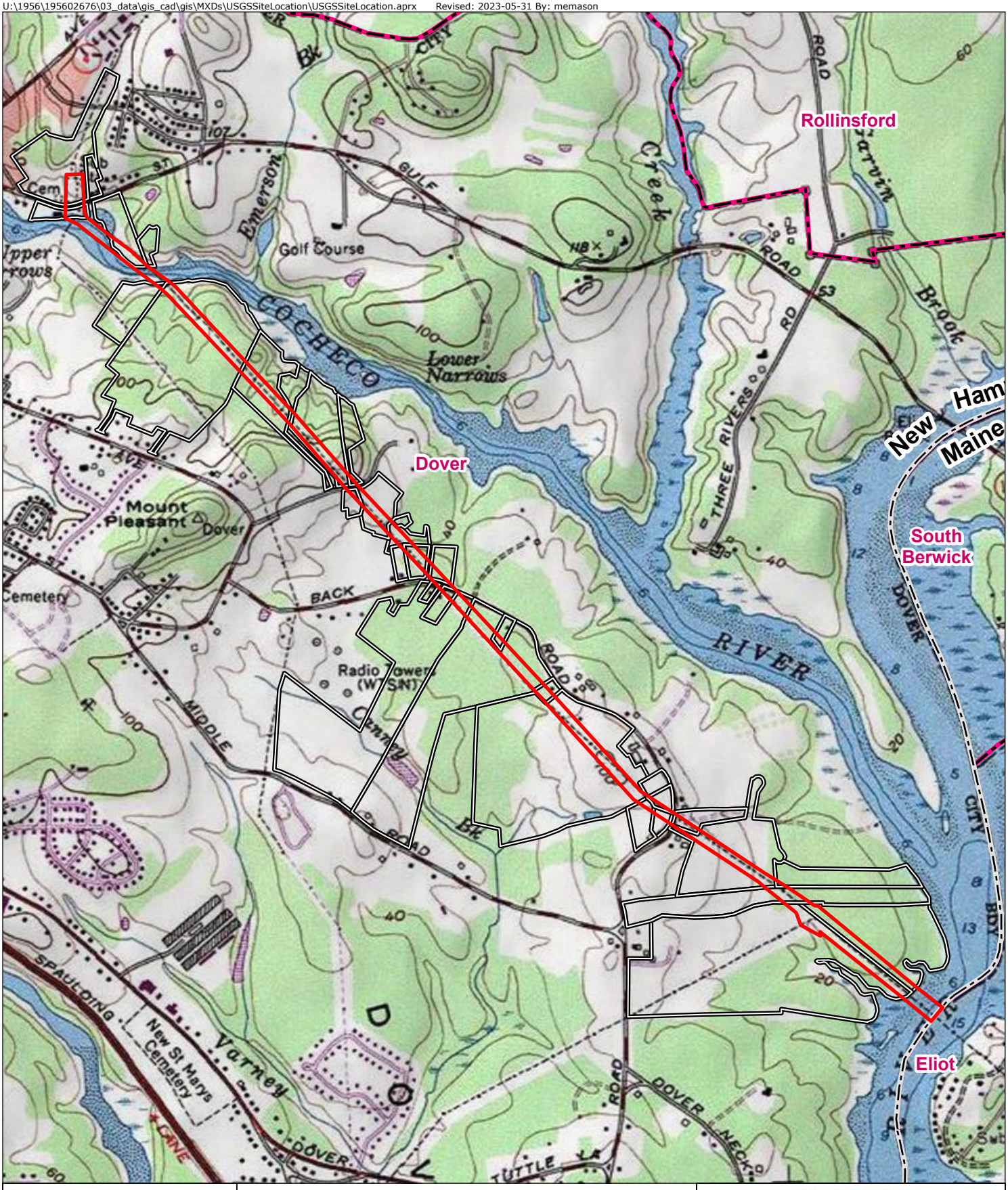
Photo 2. Representative view looking southeast to W13 and proposed structure 16. Stantec. June 9, 2023.

R169 STRUCTURE REPLACEMENT PROJECT
CUP APPLICATION - REPRESENTATIVE PHOTOGRAPHS

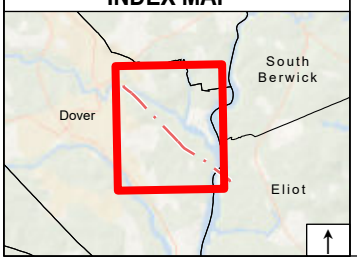
December 22, 2023

FIGURES

U:\1956\195602676\03_data\gis_cad\gis\MXDs\USGSSiteLocation\USGSSiteLocation.aprx Revised: 2023-05-31 By: memason



INDEX MAP



Legend

- Approximate Project Limits
- Municipal Boundary
- State Boundary
- Abutting Parcel Boundary

N

1 inch = 1,500 Feet

0 750 1,500 Feet

EVERSOURCE ENERGY

Dover to Eliot (R169)
Structure Replacement Project

Date: May 31, 2023

Figure 1
USGS Location Map

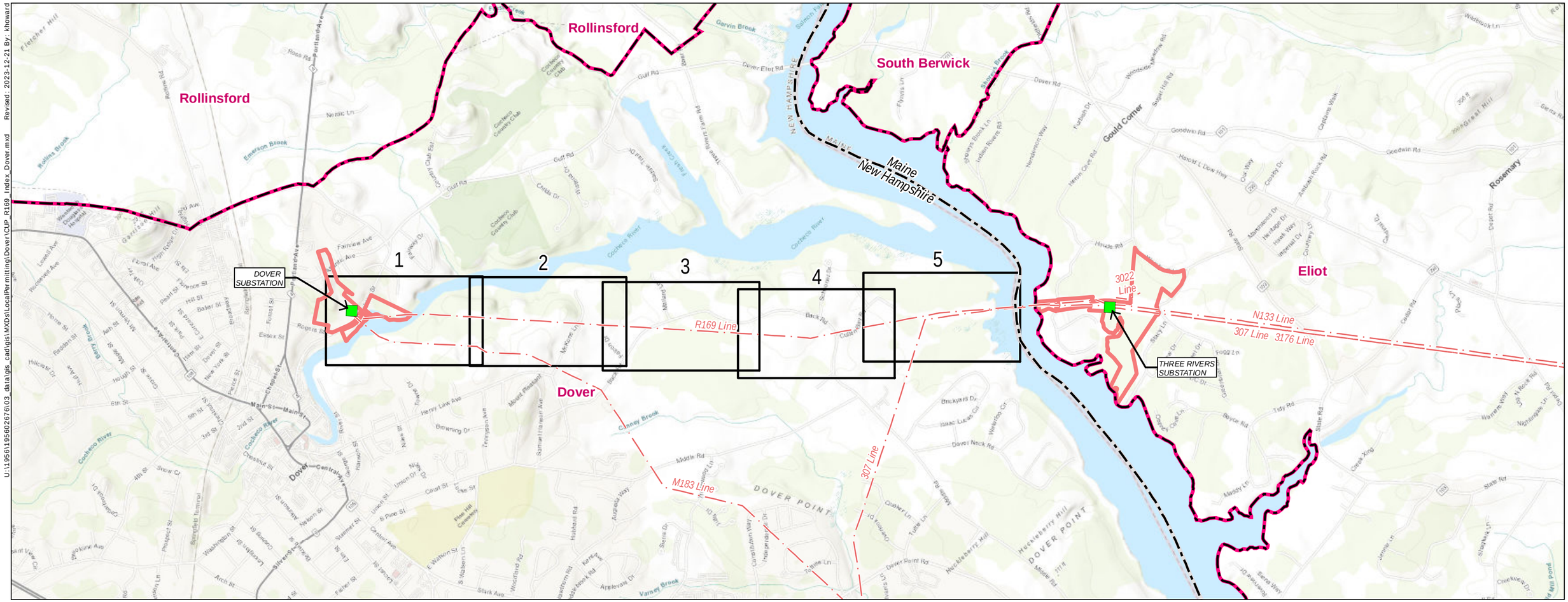
R169 Line - Structure Replacement Project

Dover, NH

Environmental Resources Map

Dover CUP Permit Map Set

Date: December 21, 2023



Legend

Substation | Municipal Boundary | State Boundary | Map Sheet | Eversource Owned Property

PREPARED FOR:

EVERSOURCE ENERGY

107 Selden Street
Berlin, CT 06037

N

0 2,000 4,000 Feet

INDEX OF FIGURES

Title Sheet / Index Map
Map Sheets 1-5

PREPARED BY:

Stantec

30 Park Drive
Topsham, ME 04086

Temporary Wetland Impact (SF)	Temporary Wetland Protection District Impact (SF)	Temporary Conservation District Impact (SF)	Permanent Wetland Protection District Impact (SF)	Permanent Conservation District Impact (SF)
23,279	16,716	-	29,941	-

EAGAN DRIVE
MALLARD LANE
BACK ROAD
FALCON DRIVE
Dover

TEMPORARY WETLAND IMPACT: +/-742 SQ.FT.
TEMPORARY WETLAND IMPACT: +/-1,369 SQ.FT.
TEMPORARY WETLAND IMPACT: +/-677 SQ.FT.
FENCES ON BOTH SIDES OF EAGAN DRIVE TO BE REMOVED AND REBUILT AFTER CONSTRUCTION
LOW COMMUNICATION LINES
TEMPORARY WETLAND IMPACT: +/-1,217 SQ.FT.
TEMPORARY WETLAND IMPACT: +/-2,763 SQ.FT.
UPLAND MATTING TO BE INSTALLED IN SPRING, REMOVED/RESTORED, AND RE-INSTALLED IN FALL FOR GROUND ACCESS TO STRUCTURE 13 FOR OPGW
FENCE TO BE REMOVED AND REPLACED
TEMPORARY WETLAND IMPACT: +/-447 SQ.FT.
SPAN STREAM NO IMPACT
TEMPORARY WETLAND IMPACT: +/-143 SQ.FT.
EXISTING LAWN TO BE RESTORED
TEMPORARY WETLAND IMPACT: +/-2,482 SQ.FT.
TEMPORARY WETLAND IMPACT: +/-5,247 SQ.FT.
TEMPORARY WETLAND IMPACT: +/-2,628 SQ.FT.
TEMPORARY WETLAND IMPACT: +/-361 SQ.FT.
TEMPORARY WETLAND IMPACT: +/-2,808 SQ.FT.
TEMPORARY WETLAND IMPACT: +/-3,136 SQ.FT.

W11-PSS
W12-PEM
W13-PEM
W14-PEM
W15-PEM
W16-PEM
R169 Line

831-019
Tax Map ID: N0018-014000
Briana Dichter
10 Whiteley Drive

831-018
Tax Map ID: N0018-000OP1
One Home Builders III LLC
Eagan Drive

831-017
Tax Map ID: N0019-A00000
Elaine M Thurston
174 Back Road

831-015
Tax Map ID: N0019-C00000
Thomas J Vitko
186 Back Road

831-016
Tax Map ID: N0019-B00000
Ricardo Antonio Santana Ramirez
180 Back Road

831-014
Tax Map ID: K0006-C00000
Steven M Bourque
147 Back Road

831-013
Tax Map ID: K0006-E00000
Victoria Currier
153 Back Road

830-250
Tax Map ID: K0006-000000
Canney Brook Engineering And Consulting
105 Middle Road

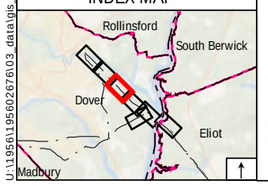
831-012
Tax Map ID: M0003-B00000
Roger Duplouy
191 Back Road

831-011
Tax Map ID: M0003-000000
R Craig Williams
154 Middle Road

831-010
Tax Map ID: M0003-A00000
Matthew M Smith
229 Back Road

831-009
Tax Map ID: M0100-A00000
Nancy E Hunt
245 Back Road

INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending
- Proposed Access
- Sediment Control Barrier (Typ.)
- Stone Work Pad
- Temporary Wetland Construction Matting
- Temporary Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 830 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- FEMA 100-Year Flood Zone
- FEMA Floodway
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- NHDES 250' Protected Shoreland
- Conservation District
- Wetland Protection District

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines provided by Eversource Energy. Wetlands, watercourses, and potential vernal pools delineated and verified by Stantec June 2023. Additional sources include: FEMA, NH Granit, Maine GeoLibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery.

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

R169 Line Structure Replacement
Dover CUP Permit Map Set

Dover, NH	MAP SHEET 3 of 5
Date: December 21, 2023	Stantec

U:\119561\195602676\03_data\gis_cad\gis\MXDs\LocalPermitting\Dover\CUP_R169_MapSet_Dover.mxd Revised: 2023-12-21 By: khoward

APPENDICES

Appendix A WETLAND DELINEATION REPORT

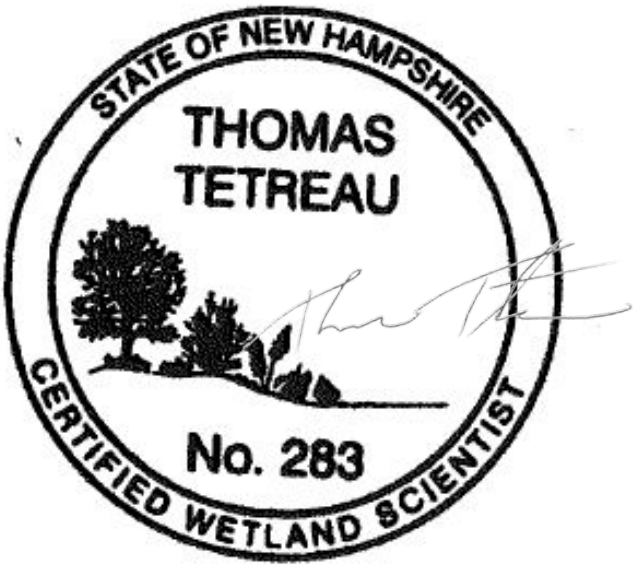
Wetland and Watercourse Delineation and Functional Assessment Report: R169 Structure Replacement Project

Dover, New Hampshire, and Eliot, Maine

September 14, 2023

Prepared for:

Eversource Energy
13 Legends Drive
Hooksett, NH 03106



Prepared by:

Stantec Consulting Services Inc.
30 Park Drive
Topsham, ME 04086

Table of Contents

1.0 INTRODUCTION 1

2.0 METHODS 1
2.1 WETLAND AND WATERCOURSE DELINEATION 1
2.2 FUNCTIONAL ASSESSMENT 2

3.0 RESULTS 3
3.1 GENERAL SITE DESCRIPTION 3
3.2 WETLAND AND WATERCOURSE DELINEATION 3
3.3 FUNCTIONAL ASSESSMENT 7

LIST OF TABLES

Table 1. Summary of Delineated Wetlands 4
Table 2. Summary of Delineated Streams 6
Table 3. Summary of Identified Vernal Pools 7
Table 4. Summary of Functional Assessment 8

LIST OF FIGURES

Permit Map Set

LIST OF APPENDICES

Appendix A Representative Photographs
Appendix B Corps Wetland Determination Data Forms (provided upon request)
Appendix C Wetlands Functional Assessment Worksheets (provided upon request)
Appendix D Observed Wildlife

1.0 INTRODUCTION

Eversource Energy (Eversource) proposes to replace approximately 20 existing transmission line structures located within the full length of the R169 Line, totaling approximately 3 miles of combined transmission line right-of-way (ROW) in Dover, New Hampshire and Eliot, Maine (Project Site; see attached Draft Map Set). Of the 20 structures proposed to be replaced, 19 are located in Dover and 1 is located in Eliot. Stantec Consulting Services Inc. (Stantec) was contracted to conduct wetland and watercourse delineations and a wetland functional assessment of the Project Site to support federal, state, and local natural resource permitting.

Stantec conducted on-site delineations within the existing ROW between June 8 and June 9, 2023. The delineations were conducted by Tom Tetreau, New Hampshire Certified Wetland Scientist #283. This report includes descriptions of the wetland and watercourse delineation methods and results.

2.0 METHODS

2.1 WETLAND AND WATERCOURSE DELINEATION

The R169 Line was previously delineated over 5 years ago, and the spatial data of these previously delineated wetlands and watercourses were used to aid in the 2023 wetland and watercourse delineation.

Wetland boundaries under local, state, and federal jurisdiction were determined using the technical criteria described in the U.S. Army Corps of Engineers (Corps) *Corps of Engineers Wetlands Delineation Manual*[1] and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Regional Supplement.*[2] Wetland communities were classified according to the *Classification of Wetlands and Deepwater Habitats of the United States.*[3] Hydric soil determinations were made in accordance with the Corps wetland delineation manuals and the *Field Indicators for Identifying Hydric Soils in New England (Version 4).*[4]

Wetland boundaries anticipated to meet state, federal, and local jurisdictional criteria were located using a Global Positioning System (GPS) receiver capable of submeter accuracy. The previously delineated

[1] Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1. U.S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, MS.
[2] U.S. Army Corps of Engineers. 2011. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Version 2.0), ed. J. S. Wakeley, R. W. Lichvar, and C. V. Noble. ERDC/EL TR-12-1. Vicksburg, MS: U.S. Army Engineer Research and Development Center.
[3] Federal Geographic Data Committee. 2013. Classification of wetlands and deepwater habitats of the United States. FGDC-STD-004-2013. Second Edition. Wetlands Subcommittee, Federal Geographic Data Committee and U.S. Fish and Wildlife Service, Washington, DC.
[4] New England Hydric Soils Technical Committee. 2017. Field Indicators for Identifying Hydric Soils in New England (Version 4).

wetland boundaries were confirmed using the GPS, with revisions to the boundaries located with the GPS as necessary.

Watercourses (e.g., streams) identified during the delineations were identified based on the definitions in NHDES Certified Administrative Rules Env-Wt 406.04, as well as the technical guidance available from the Corps on the identification of an Ordinary High Water Mark.[5] The top of each bank was mapped for streams typically over 6 feet wide, and the centerline was mapped for streams with top of bank widths up to 6 feet wide. Data was collected on flow regime, top of bank, band depth, Ordinary High Water Mark widths, dominant substrates, and evidence of biological use. GPS data were used to produce the attached map set.

The wetland delineation occurred outside the appropriate identification period for vernal pool indicator species; therefore, potential vernal pools were identified and evaluated in accordance with the *Identification and Documentation of Vernal Pools in New Hampshire.*[6] Potential vernal pools were primarily identified based on their physical characteristics and landscape position, and the presence of vernal pool indicator species, if observed. Observations of approximate size, hydrology, and evidence of disturbance were recorded. The boundaries of the potential vernal pools were located with GPS receivers, and photographs were taken of each vernal pool identified.

Priority Resource Areas (PRA), as defined in Env-Wt 103.66, were identified based on field observations and use of the Wetlands Permit Planning Tool.[7] PRAs identified along the R169 Line consisted of wetlands contiguous with tier 3 streams, tidal wetlands, and undeveloped tidal buffer zones.

2.2 FUNCTIONAL ASSESSMENT

Stantec performed a wetland functional assessment of the delineated wetlands and watercourses in accordance with New Hampshire Wetland Rules (Env-Wt 311.10). Wetland functions and values were qualitatively evaluated through direct field observation and a review of existing public data resources following the New Hampshire Method for evaluating the Ecological Integrity of the Wetlands and Streams (RSA 482-A:2, XI) and Corps *Highway Methodology Workbook Supplement.*[8] Information was collected to prepare Corps Wetland Determination Data Forms and Wetlands Functional Assessment Worksheets. Full assessments of Ecological Integrity using the New Hampshire Method is based on a series of desktop and field assessments and results in a numerical Functional Value Index for each wetland. Due to the length of the Project area, the abundance of wetlands, and the anticipated wetland impacts associated with the Project (temporary timber matting), Stantec evaluated the Ecological Integrity of each wetland using a qualitative value of low, medium, and high that considered the condition of the wetland

[5] U.S. Army Corps of Engineers. 2005. Regulatory Guidance Letter: Ordinary High Water Mark Identification. December 8, 2005. No. 05-05.

[6] Marchand, M. 2016. *Identifying and Documenting Vernal Pools in New Hampshire*. Third Edition, New Hampshire Fish and Game Department, Nongame and Endangered Wildlife Program.

[7] https://nhdeswppt.unh.edu/, accessed June 2023.

[8] U.S. Army Corps of Engineers. 1999. The Highway Methodology Workbook Supplement, Wetland Functions and Values: A Descriptive Approach. U.S. Army Corps of Engineers. New England Division. 32pp. NAEEP-360-1-30a.

relative to human-caused stressors, diversity of native vegetation, and presence of natural processes. This modified method allowed for a more consistent and streamlined approach when completing the required Wetlands Functional Assessment Worksheets. The temporary impact area (matting) listed on the Wetlands Functional Assessment Worksheets is approximate based on preliminary mapping and Project design and represents the greatest amount of impact likely to occur. Temporary wetland impacts will be minimized throughout the permitting and design process, and some of these wetland impact areas may decrease.

3.0 RESULTS

3.1 GENERAL SITE DESCRIPTION

The R169 Line is an existing transmission line that traverses forested, residential, and agricultural landscapes between the Dover Substation in Dover and the Three Rivers Substation in Eliot. The open transmission line is approximately 100 feet wide in most areas, with wider stretches, up to 250-feet wide, containing additional transmission lines in the areas around the Piscataqua River crossing. The ROW primarily crosses rural areas and town roads, as well as the Cocheco River and the Piscataqua River. The topography varies from flat lowlands and fields to undulating hills and steep side slopes. Elevations generally range between 0 and 90 feet above mean sea level.

The open upland natural communities consist of early successional shrub, sapling, and herbaceous species. Characteristic woody vegetation includes gray birch (*Betula populifolia*), quaking aspen (*Populus tremuloides*), red maple (*Acer rubrum*), sheep-laurel (*Kalmia angustifolia*), late lowbush blueberry (*Vaccinium angustifolium*), white meadowsweet (*Spiraea alba*), Allegheny blackberry (*Rubus allegheniensis*), American hazelnut (*Corylus americana*), red oak (*Quercus rubra*), and red raspberry (*Rubus idaeus*). Commonly observed herbaceous vegetation included little Canada mayflower (*Maianthemum canadense*), wrinkle-leaf goldenrod (*Solidago rugosa*), Canada goldenrod (*Solidago canadensis*), bracken fern (*Pteridium aquilinum*), hay-scented fern (*Dennstaedtia punctilobula*), wild strawberry (*fragaria virginiana*), bristly dewberry (*Rubus hispidus*), Kentucky blue grass (*Poa pratensis*), and other common grass and wildflower species. Non-native invasive species abundance was moderate compared to native vegetation and included rambler rose (*Rosa multiflora*), Japanese barberry (*Berberis thunbergii*), Morrow's honeysuckle (*Lonicera morrowii*), and glossy false buckthorn (*Frangula alnus*). Soils within the ROW consisted primarily of loam and silty loam.

3.2 WETLAND AND WATERCOURSE DELINEATION

The wetland and watercourse delineations were conducted on June 8 and June 9, 2023, under appropriate conditions during the growing season. A total of 23 wetlands, 9 unnamed watercourses, and the Cocheco River and Piscataqua River were delineated. In addition, one potential vernal pool was surveyed. The locations of the delineated wetlands, watercourses, and potential vernal pool are included on the attached Draft Map Set. Tables 1, 2, and 3 summarize the delineated wetlands, watercourses, and potential vernal pool, respectively. Representative site photographs are provided in Appendix A. Representative Corps Wetland Determination Forms are included in Appendix B.

Table 1. Summary of Delineated Wetlands

Wetland Resource Identifier	Wetland Classification[1]	Dominant and Characteristic Vegetation	Hydric Soil Indicators	Wetland Hydrology Indicators	Priority Resource Area (PRA)	Additional Comments
W001	PEM	Trees: None Saplings/Shrubs: None Herbs: broad-leaf cat-tail (*Typha latifolia*), lamp rush (*Juncus effusus*), cottongrass bulrush (*Scirpus cyperinus*), sensitive fern *(Onoclea sensibilis*), uptight sedge (*Carex stricta*)	F3: Depleted Matrix	A3: Saturation B9: Water-stained leaves	No	Ditch excavation around existing substation
W002	E2EM	Trees: none Saplings/Shrubs: none Herbs: saltwater cord grass (*Spartina alterniflora*), eastern grasswort (*Lilaeopsis chinesis*)	F3: Depleted Matrix	A1: Surface Water A2: High Water Table A3: Saturation	Yes - Tidal	Tidal wetland associated with Cocheco River. Rare plant species observed.
W003	PFO	Trees: Norway maple (*Acer plantanoides*) Saplings/Shrubs: speckled alder (*Alnus incana*) Herbs: sensitive fern, lamp rush	F3: Depleted Matrix	A3: Saturation B9: Water-stained leaves	Yes – within 100-feet of tidal areas	Stream S01 flows through wetland and into the Cocecho River.
W004	PSS	Trees: None Saplings/Shrubs: speckled alder Herbs: broad-leaf cat-tail, sensitive fern	F3: Depleted Matrix	A2: High Water Table A3: Saturation	Yes – within 100-feet of tidal areas	
W005	PSS/PEM	Trees: None Saplings/Shrubs: speckled alder Herbs: sensitive fern, broad-leaf cat-tail, lamp rush	F3: Depleted Matrix	A2: High Water Table A3: Saturation	No	
W006	PEM	Trees: none Saplings/Shrubs: red maple, speckled alder Herbs: sensitive fern, broad-leaf cat-tail, lamp rush, reed canary grass (*Phalaris arundinacea*), spotted touch-me-not (*Impatiens capensis*)	F3: Depleted Matrix	A3: Saturation	No	Contains potential vernal pool PVP01.
W007	PSS	Trees: none Saplings/Shrubs: speckled alder Herbs: sensitive fern, lamp rush, spotted touch-me-not, bluejoint (*Calamagrostis canadensis*), woodland horsetail (*Equisetum sylvaticum*)	F3: Depleted Matrix	A3: Saturation	No	Contains stream S02.
W008	PEM	Trees: none Saplings/Shrubs: speckled alder Herbs: broad-leaf cat-tail, sensitive fern, uptight sedge	F3: Depleted Matrix	A3: Saturation	No	Contains stream S03.
W009	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, lamp rush, spotted touch-me-not, purple loosestrife (*Lythrum salicaria*)	F3: Depleted Matrix	A3: Saturation	No	

Wetland Resource Identifier	Wetland Classification[1]	Dominant and Characteristic Vegetation	Hydric Soil Indicators	Wetland Hydrology Indicators	Priority Resource Area (PRA)	Additional Comments
W010	PEM/PSS	Trees: none Saplings/Shrubs: speckled alder Herbs: sensitive fern, lamp rush, woodland horsetail, bluejoint, reed canary grass	F3: Depleted Matrix	A3: Saturation	No	
W011	PSS	Trees: none Saplings/Shrubs: speckled alder, common winterberry (*Ilex verticilata*) Herbs: nodding sedge (*Carex gynandra*), sensitive fern, spotted touch-me-not, reed canary grass	F3: Depleted Matrix	A2: High Water Table A3: Saturation	No	Contains stream S04.
W012	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, bluejoint, lamp rush, broad-leaf cat-tail	F3: Depleted Matrix	A3: Saturation	No	
W013	PEM	Trees: none Saplings/Shrubs: alder Herbs: sensitive fern, broad-leaf cat-tail, lamp rush, skunk-cabbage (*Symplocarpus foetidus*)	F3: Depleted Matrix	A2: High Water Table A3: Saturation	No	
W014	PEM/PSS	Trees: none Saplings/Shrubs: red maple, speckled alder, common winterberry Herbs: sensitive fern, lamp rush, broad-leaf cat-tail, reed canary grass, wrinkle-leaf goldenrod	F3: Depleted Matrix	A3: Saturation B9: Water-stained leaves	No	
W015	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, bluejoint, steeplebush, wrinkle-leaf goldenrod, lamp rush	F3: Depleted Matrix	A3: Saturation	No	Portion of wetland within maintained lawn/yard area.
W016	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, lamp rush, uptight sedge, fowl manna grass (*Glyceria striata*), greater bladder sedge (*Carex intumescens*)	F3: Depleted Matrix	A3: Saturation	No	
W017	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, bluejoint, reed canary grass	F3: Depleted Matrix	A3: Saturation B9: Water-stained leaves	No	
W018	PSS/PEM	Trees: none Saplings/Shrubs: broad-leaf meadowsweet (*Spiraea latifolia*), coastal sweet pepperbush (*Clethra alnifolia*), speckled alder, common winterberry Herbs: sensitive fern, lamp rush, bluejoint, blue iris (*Iris versicolor)*	F3: Depleted Matrix	A3: Saturation	No	Portion of wetland is mowed hay field. Contains stream S05.

Wetland Resource Identifier	Wetland Classification[1]	Dominant and Characteristic Vegetation	Hydric Soil Indicators	Wetland Hydrology Indicators	Priority Resource Area (PRA)	Additional Comments
W019	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, lamp rush, broad-leaf cat-tail, necklace sedge (*Carex projecta*)	F3: Depleted Matrix	A3: Saturation	No	
W020	PEM/PSS	Trees: none Saplings/Shrubs: pussy willow (*Salix discolor*) Herbs: sensitive fern, bluejoint, reed canary grass, lamp rush, broad-leaf cat-tail	F3: Depleted Matrix	A3: Saturation	No	
W021	PEM	Trees: none Saplings/Shrubs: speckled alder Herbs: lamp rush, sensitive fern, cottongrass bulrush	F3: Depleted Matrix	A3: Saturation B10: Wetland drainage patterns	No (Maine)	Adjacent to Piscataqua River. Portions within mowed lawn/yard area.
W022	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, lamp rush, woodland horsetail, cottongrass bulrush	F3: Depleted Matrix	A3: Saturation	No (Maine	
W023	PSS/PEM	Trees: none Saplings/Shrubs: broad-leaf meadowsweet, speckled alder, common winterberry Herbs: sensitive fern, lamp rush, broad-leaf cat-tail	F3: Depleted Matrix	A3: Saturation B9: Water-stained leaves	No (Maine)	

[1] PEM = Palustrine Emergent, PSS = Palustrine Scrub-shrub, PUB = Palustrine Unconsolidated Bottom, PFO = Palustrine Forested, E2EM = Estuarine Intertidal Emergent

Table 2. Summary of Delineated Streams

Stream Identifier	Flow Type	Bankfull Width (ft)	Ordinary High Water Mark Width (ft)	Dominant Substrates	Additional notes
S01	Perennial	4-6	4-6	Sand, gravel, silt	Flows south through W03, into the Cocheco River
Cocheco River	Perennial/Tidal	200+	200+	Silt, gravel, mud	
S02	Intermittent	2-3	2-3	Silt, gravel	Flows across ROW toward Cocheco River
S03	Perennial	8	8	Cobbles, gravel, boulders	Flows across ROW toward Cocheco River
S04	Perennial	4	4	Silt, gravel	Flows through wetland W11 in residence area
S05	Intermittent	4	4	Silt, gravel	Flows from wetland W18 towards Piscataqua River
Piscataqua River	Perennial/Tidal	850+	850+	Silt, gravel, mud	
S06	Intermittent	3	3	Sand, silt, gravel	Flows across ROW toward Piscataqua River; flows under existing road through culvert
S07	Intermittent	4	4	Gravel, cobbles	Flows across ROW toward Piscataqua River; flows under existing road through culvert
S08	Intermittent	4	4	Silt, gravel, cobbles	Flows across ROW toward Piscataqua River; flows under existing road through culvert
S09	Ephemeral	4	5	Sand, gravel	Originates from culvert under existing road, likely only flows during heavy rain

Table 3. Summary of Identified Vernal Pools

VP Identifier	Estimated Hydroperiod	Indicator Species	Comments
PVP01	Semi-permanent	Unknown adult frogs observed	Potential old excavation adjacent to pipeline crossing of the transmission line ROW. Approximately 50-foot diameter and 1 to 2 feet deep with mucky substrate.

3.3 FUNCTIONAL ASSESSMENT

Table 4 summarizes the results of the wetland functional assessment. In general, wetlands within the Project area provide a variety of functions and values. Nutrient Trapping / Retention & Transformation, Sediment Trapping, and Wetland-dependent Wildlife Habitat were the most common functions along with Groundwater Recharge and Flood Storage.

Wetlands Functional Assessment Worksheets for wetlands proposed to be impacted by temporary timber matting are included in Appendix C. Potential vernal pools and streams were considered when performing the functional assessment of impacted wetlands, but since no impacts are proposed to potential vernal pools and streams, a full assessment of these features was not included in the Wetlands Functional Assessment Worksheets. The list of observed wildlife is included in Appendix D, and Table 1 above includes the observed vegetation.

Table 4. Summary of Functional Assessment

Wetland Resource Identifier	Wetland Functions and Values[1]													
	1 Ecological Integrity[2]	2 Educational Potential	3 Fish and Aquatic Life Habitat	4 Flood Storage	5 Groundwater Recharge	6 Noteworthiness	7 Nutrient Trapping / Retention & Transformation	8 Production Export	9 Scenic Quality	10 Sediment Trapping	11 Shoreline Anchoring	12 Uniqueness/ Heritage	13 Wetland-based Recreation	14 Wetland-dependent Wildlife Habitat
W001	Low			X			P	X		X				
W002	High		P	P		P	P	X		X	P	X		X
W003	Moderate			P			X	X		X	X			X
W004	Moderate			P			X	X		X	P			X
W005	Moderate			P	X		X	X		X				X
W006	Moderate				P		X	X		X				P
W007	Moderate			X	P		X	X		X	P			X
W008	Moderate			X	P		X	X		X	P			X
W009	Low				P		X	X		X				X
W010	Moderate			X	P		X	X		X				X
W011	Moderate		X	X	X		X	X		X	P			X
W012	Low				X		P	X		X				X
W013	Moderate			X	X		P	X		X				X
W014	Moderate			X	X		P	P		X				X
W015	Low				X		X	X		P				X
W016	Low				X		P	X		X				X
W017	Moderate						X	P		X				X
W018	Moderate			X	X		P	X		X				X
W019	Low						P	X		P				X
W020	Low						P	X		P				X
W021	N/A, Maine			P	X		X	X		P				X
W022	N/A, Maine				X		X	X		P				X
W023	N/A, Maine			X	P	X	X	X		P				X

X = Function observed within wetland, P = Principal Function

[1] Corps Highway Methodology Workbook Supplement

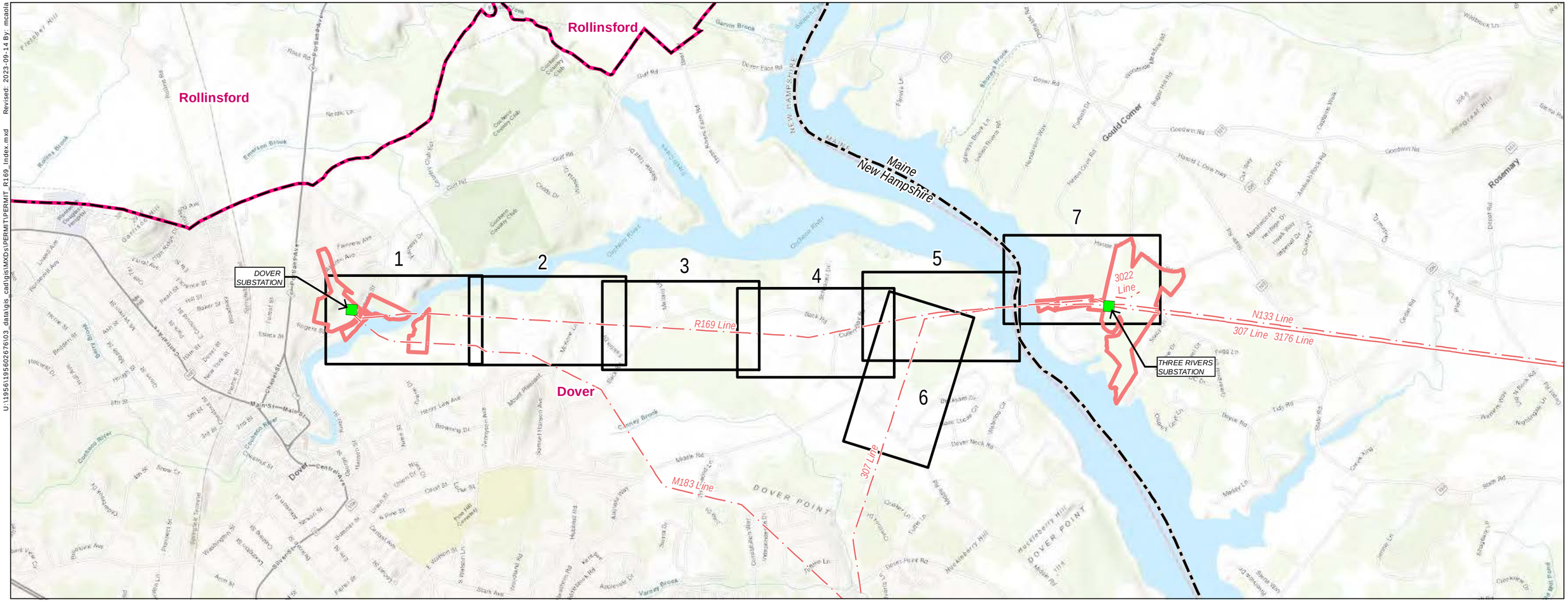
[2] Method for the Comparative Evaluation of Nontidal Wetlands in New Hampshire

FIGURES

R169 Line - Structure Replacement Project

Dover, NH and Eliot, ME
Environmental Resources Map
PERMIT Map Set
Date: September 14, 2023

U:\119561195602676\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_Index.mxd Revised: 2023-09-14 By: mcaola



Legend

Substation | Municipal Boundary | State Boundary | Map Sheet | Eversource Owned Property

N

0 2,000 4,000 Feet

PREPARED FOR:

EVERSOURCE ENERGY

107 Selden Street
Berlin, CT 06037

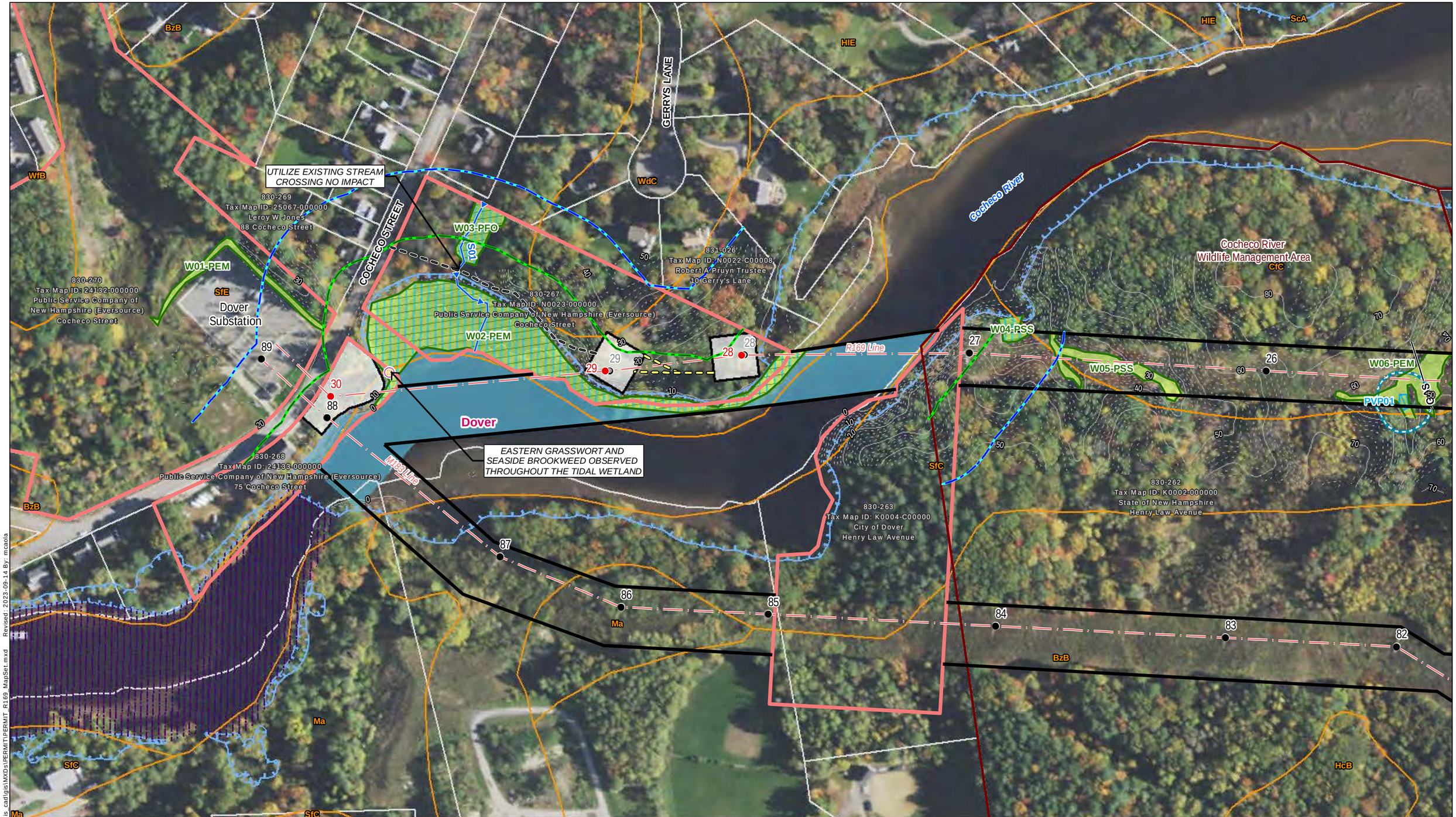
INDEX OF FIGURES

Title Sheet / Index Map
NRCS Soils Table
Map Sheets 1-7

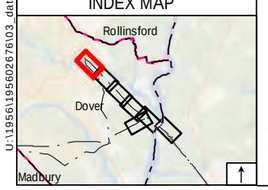
PREPARED BY:

Stantec

30 Park Drive
Topsham, ME 04086



INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 830 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine Geolibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

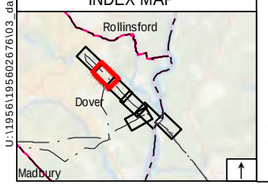
R169 Line Structure Replacement
PERMIT Map Set

Dover, NH	MAP SHEET 1 of 7
Date: September 14, 2023	Stantec

U:\19560\19560267\603_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

Dover
Cocheco River
Cocheco River Wildlife Management Area
831-022
Tax Map ID: N0018-001000
State of New Hampshire
McKone Lane
831-024
Tax Map ID: K0001-A00000
Robert Swanson
38 McKone Lane
831-025
Tax Map ID: K0001-A00001
State of New Hampshire
McKone Lane
831-023
Tax Map ID: K0001-B00000
State of New Hampshire
McKone Lane
830-262
Tax Map ID: K0002-000000
State of New Hampshire
Henry Law Avenue
831-020
Tax Map ID: N0018-006000
Daniel & Jacqueline Ayer Revocable Trusts
McKone Lane
831-019
Tax Map ID: N0018-014000
Brianna Dichter
10 Whiteley Drive
831-018
Tax Map ID: N0018-000OP1
One Home Builders II LLC
Eagan Drive
831-021
Tax Map ID: N0019-005000
Anthony P Ayer
47 McKone Lane
831-017
Tax Map ID: N0019-A00000
Elaine M Thurston
174 Back Road
WHITELEY DRIVE
EAGAN DRIVE
MCKONE LANE
FALCON DRIVE
BACKROAD
W06-PEM
PVP01
W07-PSS
W08-PEM
W09-PEM
W10-PEM
W11-PSS
SPAN STREAM NO IMPACT
CONFIGURE WORK PADS TO AVOID EXISTING STONEWALL
UTILIZE EXISTING BREACH IN STONEWALL
STONEWALL TO BE REMOVED AND REBUILT AFTER CONSTRUCTION
UTILIZE EXISTING PAVED DRIVEWAY
TEMPORARY WETLAND IMPACT: +/-742 SQ.FT.
R169 Line
M183 Line
ScA
HeD
HcC
SfC
WfB
HcB
DeA
HcD
CfC
CsD
CsB
WfC
HdD
BzB
HdC
HcB
ScB
HdB
WdB
82
81
80
79
78
8.5
25
24
23
22
21
20

INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 830 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine GeoLibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

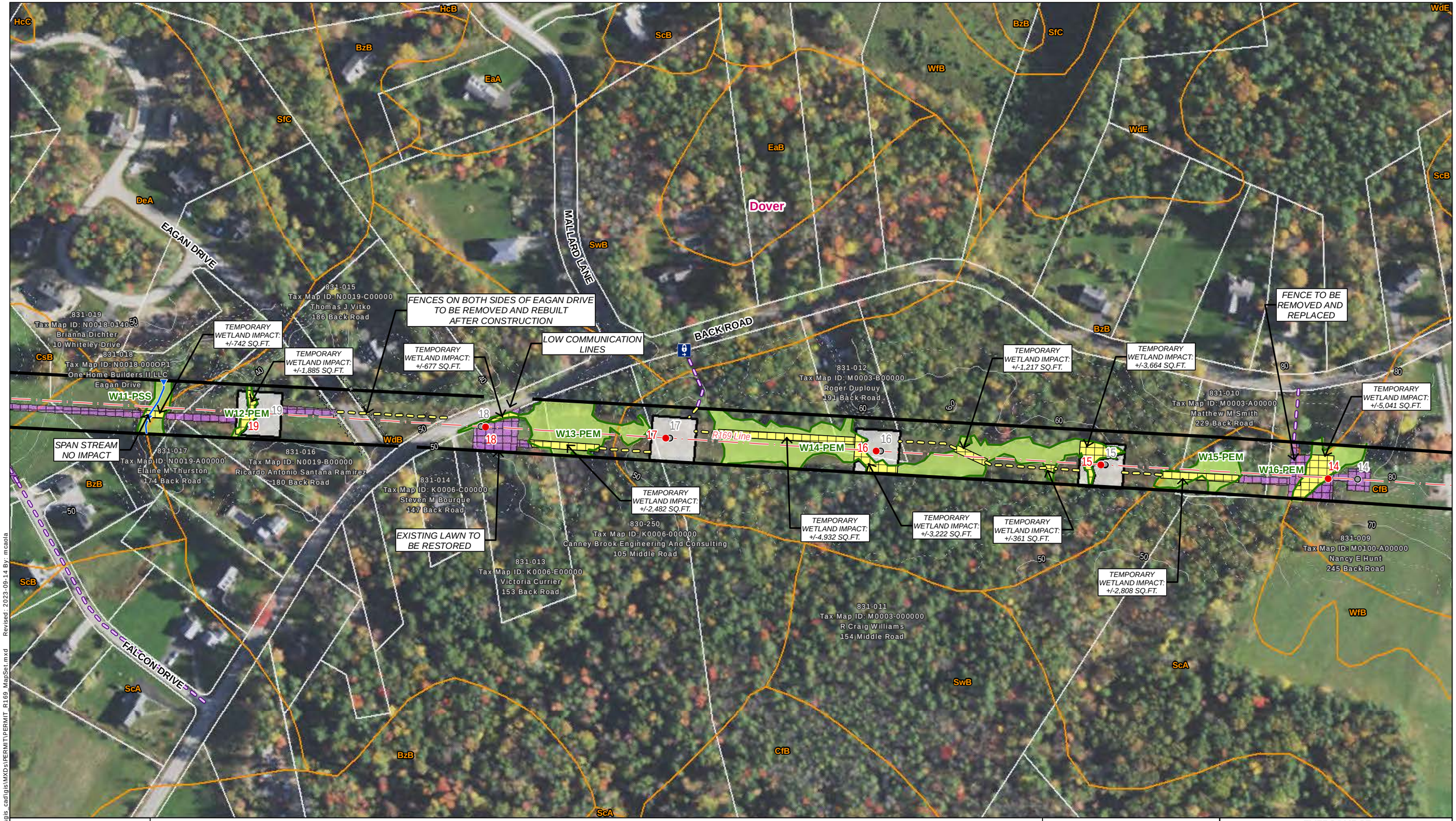
STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

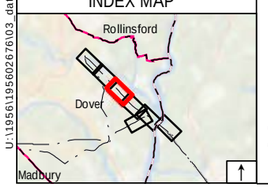
R169 Line Structure Replacement
PERMIT Map Set

Dover, NH	MAP SHEET 2 of 7
Date: September 14, 2023	Stantec

U:\119561195602676\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola



INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 830 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine Geolibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

R169 Line Structure Replacement
PERMIT Map Set

Dover, NH	MAP SHEET 3 of 7
Date: September 14, 2023	Stantec

U:\11956\11956026761\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

FENCE TO BE REMOVED AND REPLACED

TEMPORARY WETLAND IMPACT: +/-926 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-1,452 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-810 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-3,188 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-10,000 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-6,840 SQ.FT.

ACCESS FROM BACK ROAD

EXISTING LAWN TO BE RESTORED

SCHOONER DRIVE

CULLEN BAY ROAD

BACK ROAD

Dover

R169 Line

W16-PEM

W17-PEM

W18-PSS

831-008
Tax Map ID: M0100-B00000
Gregory W Hunt
295 Back Road

831-007
Tax Map ID: M0105-002000
Christopher D Berg
303 Back Road

831-004
Tax Map ID: M0093-B00000
Nancy Magiaras
362 Back Road

831-003
Tax Map ID: M0092-B00000
Cullen Bay Homeowners Association
Cullen Bay Road

831-005
Tax Map ID: M0105-000000
Eric W Thompson
321 Back Road

831-009
Tax Map ID: M0100-A00000
Nancy E Hunt
245 Back Road

831-006
Tax Map ID: M0105-001000
William C & Nancy Hunt Trustees
Back Road

831-001
Tax Map ID: M0092-A00000
Patricia Langs
Back Road

829-138
Tax Map ID: M0091-A00000
Townsquare Media Portsmouth LLC
292 Middle Road

WdE WdB BzB ScB CfB HcB WfB ScA SwB SfC HcC

INDEX MAP

Rollinsford
Dover
Madbury

Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 830 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine Geolibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

R169 Line Structure Replacement
PERMIT Map Set

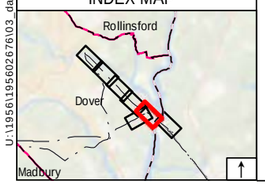
Dover, NH	MAP SHEET 4 of 7
Date: September 14, 2023	Stantec

U:\11956\19560267\6\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

SfC
HaA
WdB
SfC
WfB
SfC
DeB
CULLEN BAY ROAD
CULLEN BAY ROAD
Dover
Piscataqua River
Maine
New Hampshire
829-139
Tax Map ID: M0104-000000
Alan G. Dexter Trustee
Back River Road
831-001
Tax Map ID: M0092-A00000
Patricia Langs
Back Road
WdB
TEMPORARY WETLAND IMPACT: +/-2,022 SQ.FT.
831-002
Tax Map ID: M0092-H00000
Marie V Hebert Trustee
Cullen Bay Road
ScB
TEMPORARY WETLAND IMPACT: +/-10,000 SQ.FT.
831-003
Tax Map ID: M0092-B00000
Cullen Bay Homeowners Association
Cullen Bay Road
W18-PSS
S05
R169 Line
307 Line
SPAN STREAM AND WETLAND NO IMPACT
829-138
Tax Map ID: M0091-A00000
Townsquare Media Portsmouth LLC
292 Middle Road
TEMPORARY WETLAND IMPACT: +/-10,000 SQ.FT.
TEMPORARY WETLAND IMPACT: +/-6,840 SQ.FT.
WdA
WdE
S06
WdC
ScA
BzB
S07
WfC
Ta
EaB
WfB

U:\1956\195602676\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 330 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine Geolibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

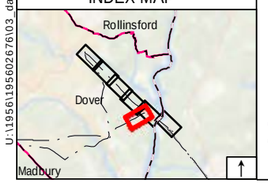
STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

R169 Line Structure Replacement
PERMIT Map Set

Dover, NH	MAP SHEET 5 of 7
Date: September 14, 2023	Stantec

INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 330 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine GeoLibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

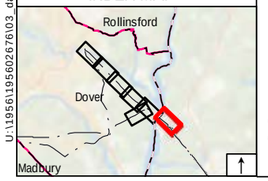
EVERSOURCE ENERGY

R169 Line Structure Replacement
PERMIT Map Set

Dover, NH	MAP SHEET 6 of 7
Date: September 14, 2023	Stantec

U:\11956\119560267\6\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 830 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- Rare Species Observation
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet

0 50 100 200 Feet

Map Notes:

Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet

Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine Geolibrary

Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

R169 Line Structure Replacement
PERMIT Map Set

Dover, NH and Eliot, ME	MAP SHEET 7 of 7
Date: September 14, 2023	Stantec

U:\11956\19560276\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

APPENDICES

Appendix A REPRESENTATIVE PHOTOGRAPHS

Photo 1. Representative view of the Cocheco River from structure 30. Stantec, June 8, 2023.

Photo 2. Representative view of the Cocheco River from Structure 29. Stantec, June 8, 2023.

Photo 3. Stream S01 flowing into Cocheco River near structure 29. Stantec, June 8, 2023.

Photo 4. Representative view of Cocheco River from structure 28. Stantec, June 8, 2023.

Photo 5. Representative view of the ROW and Wetland W05. Stantec, June 8, 2023.

Photo 6. Potential vernal pool PVP01, near structure 25. Stantec, June 8, 2023.

Photo 7. Representative view of the ROW and wetland W10 near structure 23. Stantec, June 8, 2023.

Photo 8. Representative view of the ROW and wetland W13 near structure 18. Stantec, June 8, 2023.

Photo 9. Representative view of the ROW and wetland in active pasture area near structure 14. Stantec, June 8, 2023.

Photo 10. Representative view of the ROW and open field side of wetland W18, near structure 8. Stantec, June 8, 2023.

Photo 11. Stream S05 in wetland W18 near junction of R169 and 307 line ROWs. Stantec, June 8, 2023.

Photo 12. Representative view of the ROW at the Piscataqua River, structure 5. Stantec, June 8, 2023.

Photo 13. Wetland W19 and existing access along 307 line ROW. Stantec, June 8, 2023.

Photo 14. Representative view of the ROW and wetland W21, near structure 4. Stantec, June 8, 2023.

Photo 15. Representative view of the ROW and wetland W23, near structure 3. Stantec, June 8, 2023.

Photo 16. Structure 2, near the Three Rivers Substation. Stantec, June 8, 2023.

Appendix B CORPS WETLAND DETERMINATION DATA FORMS

(Provided upon request)

Appendix C WETLANDS FUNCTIONAL ASSESSMENT WORKSHEETS

(Provided upon request)

Appendix D OBSERVED WILDLIFE

Common Name	Species Name
American crow	*Corvus brachyrhynchos*
Osprey	*Pandion haliaetus*
Eastern chipmunk	*Tamias striatus*
Red-tailed hawk	*Buteo jamaicensis*
White-tailed deer	*Odocoileus virginianus*
Wild turkey	*Meleagris gallopavo*

R169 Structure Replacement Project
Dover, New Hampshire

Conditional Use Permit Application

Part 4 of 5

December 22, 2023

Prepared for:

Public Service Company of New Hampshire d/b/a Eversource Energy
13 Legends Drive
Hooksett, NH 03106

Prepared by:

Stantec Consulting Services Inc.
30 Park Drive
Topsham, ME 04086

City of Dover, New Hampshire
CONDITIONAL USE PERMIT APPLICATION

[Revision Date: October 19, 2020]

Office Use Only	Project #:		Date Received:	
	Amount Paid:		Time Received:	

APPLICANT AND OWNER INFORMATION

Name of Applicant: Public Service Company of NH d/b/a Eversource Energy Telephone # 603-634-2243

Address of Applicant: 13 Legends Drive, Hooksett, NH 03106

E-Mail Address: Travis.Yandow@Eversource.com

Name of Property Owner (if different from applicant): same as above Telephone # same as above

Address of Property Owner: same as above

PROPERTY INFORMATION

Assessor's Map # 831-009 Lot(s) # Multiple

Address of Property: Existing R169 transmission line ROW--245 Back Rd to Cullen Bay Rd

Zoning District(s) R-40, R-12, CWD Overlay District(s) Wetland Protection

Rural Residential, Medium Density, Residential, Urban Density Multi Residential, Cocheco Waterfront District

Existing Use of Property: Electric transmission line ROW

CONDITIONAL USE PERMIT INFORMATION

Type of Conditional Use Permit (Check All That Apply):

☐ Conservation District	☐ RCM Use Overlay District	☐ Gateway District
☐ Groundwater Protection	☐ Off-Street Parking and Loading	☐ Alternative Treatment Center
☒ Wetland Protection District	☐ Central Business District	☐ Heritage Residential District

Describe Proposed Use or Activity That Requires Conditional Use Permit and Describe Any Impacts:

Impact Area 4/Sheet 4: Eversource is proposing to replace five structures (7, 8, 9, 11, and 12) along their existing R169 utility transmission line in Dover as it traverse pastures south and west of Back Rd then crosses at Cullen Bay Rd and continues southeasterly. These wooden structures require replacement due to age, cracking, leaning, and/or woodpecker damage. The existing structures will be replaced with new weathering steel structures to provide a more reliable electrical infrastructure. The five new structures require construction of both work pads and access roads. In wetland areas or fields, timber matting is used to minimize impact of work over these sensitive resources. In Area 4, as a result of the productive pasture land at four of the five structures, matting will be utilized to minimize ground impacts within the ROW and off-ROW. Structure 7 is entirely within a delineated wetland and, therefore, the work pad will also be completely matted. The only impacts in this area are within the Wetland Protection District. In the Wetland District, 3,188 square feet of temporary impact is proposed in the wetland areas as a result of matting at structure 7. Approximately 1,852 square feet of temporary impact is proposed in the wetland buffer areas as a result of the upland matting needed to protect farmland. When needed, these areas will require pre-construction installation of

erosion/sediment control BMPs and monitoring throughout for effectiveness. See attached application narrative and supporting documents for more details.

List Any Associated State or Federal Permits That Have Been or Will Be Applied For and Indicate Their Status: NHDES: Alteration of Terrain; Wetlands Utility Statutory Permit by Notification; Shoreland Permit by Notification; USACE Pre-application Construction Notification; USACE Section 408 Variance to Fed. Navigation Project.

Name of Professional That Prepared Plans: Tom Tetreau, NH Certified Wetland Scientist

Address 30 Park Drive, Topsham, ME 04086 Telephone #: 207-504-7231

Professional License #: 283 E-mail address: tom.tetreau@stantec.com

SIGNATURES

I/We hereby submit this application to the City of Dover Planning Board and attest that to the best of my knowledge all of the information on this application form and in the accompanying application materials and documentation is true and accurate. As applicant or as agent, I attest that I am duly authorized to act in this capacity.

Signature of Property Owner: _____ Date: 12/20/2023

Signature of Applicant (if different from owner): _____ Date: _____

Signature of Agent: _____ Date: 12/20/2023

AUTHORIZATION TO ENTER SUBJECT PROPERTY

I, and my successors, hereby authorize members of the Dover Planning Board, Planning Department and other pertinent City Departments and boards to enter my property for the purpose of evaluating this application, including performing inspections during the application phase, post-approval phase, construction phase and occupancy phase. It is understood that these individuals must use all reasonable care, courtesy, and diligence when on the property.

Signature of Property Owner: _____ Date: 12/20/2023

CITY OF DOVER CONDITIONAL USE
LIST OF ABUTTERS

Pursuant to RSA 676:4, the State Law of New Hampshire, the City of Dover is required to notify the applicant, abutters (including holders of conservation easements), and any professional whose seal is on the plan, of the public hearing by certified mail, return receipt requested. Staff will provide the abutter information, while the applicant must provide accurate contact information for the owner, applicant and professional agents representing the project.

Owner:

TAX MAP	LOT #	PROPERTY OWNER	MAILING ADDRESS
Multiple		Kurt Nelson, Eversource Energy	13 Legends Drive, Hooksett, NH 03106

Applicant (if different from owner):

APPLICANT NAME	APPLICANT COMPANY	MAILING ADDRESS

Surveyor and/or Engineer/Professional Agent:

NAME	COMPANY	MAILING ADDRESS
Tom Tetreau, NH Certified Wetland Scientist	Stantec	30 Park Drive, Topsham, ME 04086

Conservation Easement Holder:

TAX MAP	LOT #	NAME OF EASEMENT HOLDER	MAILING ADDRESS

Stantec Consulting Services Inc.
30 Park Drive, Topsham ME 04086-1737

December 22, 2023

Project/File: 195602676

Attention: Donna Benton
Planning Director
288 Central Avenue
Dover, NH 03820
d.benton@dover.nh.gov

Reference: Conditional Use Permit Application, Eversource Energy, R169 Structure Replacement Project, Dover, New Hampshire

Dear Ms. Benton and Planning Board Members,

On behalf of the Public Service of New Hampshire d/b/a Eversource Energy (Eversource), Stantec Consulting Services Inc. is filing five Conditional Use Permit (CUP) applications for necessary structure replacements as part of the R169 Structure Replacement Project (Project) in the City of Dover. Eversource has identified 18 existing structures along the existing R169 transmission line right-of-way (ROW) in Dover that require replacement due to deterioration from age, cracking, leaning, rot, and/or woodpecker damage.

Portions of the proposed Project are located within the Conservation District and the Wetlands Protection District, as described in the Dover Zoning Ordinance, Articles 170-27 and 170-27.1, respectively. CUPs may be granted within utility ROWs in the Conservation District in accordance with Article 170-27 Section C (1), and in the Wetlands Protection District in accordance with Article 170-27.1 Section F (1):

> "Article 170-27 Section C (1): *Conditional Use Permits may be granted by the PLANNING BOARD for the following uses within the* ***Conservation District****: (1) STREETs, roads and other access ways and utility rights-of-way, communications equipment, easements, including power lines and pipe lines, if essential to the productive use of land not so zoned and if so located and constructed as to minimize any detrimental impact of such uses upon the wetlands or other environmentally sensitive areas, where it is physically impossible to locate such ways over land not so zoned."*
>
> "Article 170-27.1 Section F (1): *Conditional use approval may be granted by the PLANNING BOARD (RSA 674:21II) after proper public notice and public hearing, for construction within the* ***Wetland Protection District*** *or buffer. Said construction may include but is not limited to, a road or other accessway, utility right-of-way, communication lines, power lines and pipelines, STRUCTUREs, and parking LOTs provided that the proposed construction complies with the following standards [emphasis added.]*

Therefore, Eversource is requesting the CUPs for activities and temporary impacts to wetland buffer areas within the Conservation District and the Wetlands Protection District and has outlined compliance with City of Dover zoning standards in the attached project narrative, which is being submitted in accordance with Articles 170-27 and 170-27.1 of the zoning ordinance. These five CUP applications (one per project map sheet) are being submitted, in total, for approximately 19,734 square feet (0.45 acres) of temporary tidal

Reference: Conditional Use Permit Application, Eversource Energy, R169 Structure Replacement Project

buffer resource impacts (to be restored) and 1,515 square feet (0.03 acres) of temporary stream buffer resource impacts (timber matting) in the Conservation District. In the Wetland Protection District, the following impacts are anticipated: approximately 56,885 square feet (1.31 acres) of temporary wetland impacts (matting), 26,838 square feet (0.62 acres) of temporary impacts within wetland buffers (matting), and 29,941 square feet (0.69 acres) of permanent impacts within upland wetland buffer areas for gravel access road and work pad construction.

The proposed work is for direct “in-kind” replacements of cracked and damaged poles, and no new pole locations are proposed within the R169 ROW in Dover. New structures will be in the same general footprint as existing and do not represent a significant footprint expansion within the Conservation District and the Wetlands Protection District or consist of substantial disturbances beyond those historically created by the transmission line. Disturbed areas will be protected with erosion and sediment control measures, and strategies will be implemented to stabilize and allow for re-vegetation of exposed soils.

This submittal includes a digital copy of each of the five CUP application packages. The filing fee of $1,000 ($200 per application x 5 CUP applications [one per project map sheet]) is included in the online submittal with this application. We understand that the City of Dover will calculate and invoice for abutter and notice fees; therefore, we have assumed these fees will be paid at a later date and have not included them with this application.

Additional state and federal wetland and shoreland permit applications are being prepared and submitted for the Project. Permit approvals will be forwarded to the City of Dover as required and/or requested.

Sincerely,

STANTEC CONSULTING SERVICES INC.

Jess S. Hunt
Senior Associate, Environmental Services
Phone: (603) 557-4662
jessica.hunt@stantec.com

Andrew Ackerman
Senior Environmental Scientist, Environmental Services
Phone: (603-413-7731
andrew.ackerman@stantec.com

Attachment: Conditional Use Permit Applications

cc. Travis Yandow and Kurt Nelson, Eversource

Conditional Use Permit Application

R169 Structure Replacement Project
Dover, New Hampshire

December 22, 2023

Prepared for:

Public Service Company of New Hampshire d/b/a Eversource Energy
13 Legends Drive
Hooksett, NH 03106

Prepared by:

Stantec Consulting Services Inc.
30 Park Drive
Topsham, ME 04086

Table of Contents

1.0 PROJECT INTRODUCTION AND PURPOSE 1

2.0 EXISTING CONDITONS 2

3.0 PROJECT DESCRIPTION AND PROPOSED CONDITIONS 3
3.1 LINE REBUILD: STRUCTURE REPLACEMENT, CONDUCTOR AND OPGW REPLACEMENT 3
3.2 ACCESS 4
3.2.1 Road Construction 4
3.2.2 Wetland and Upland Temporary Matting 4
3.2.3 Work Pad Construction 5
3.3 CONSTRUCTION SEQUENCE 5
3.4 BEST MANAGEMENT PRACTICES 6
3.4.1 Erosion and Sedimentation Control 6
3.4.2 Invasive Species Control Plan 6
3.4.3 Construction Observation and Post Construction Monitoring 6

4.0 OVERLAY ZONING DISTRICT IMPACTS AND ACTIVITIES 7
4.1 WETLAND PROTECTION DISTRICT 8
4.2 CONSERVATION DISTRICT 11
4.3 IMPACT AREAS 13
4.3.1 Impact Area 1 13
4.3.2 Impact Area 2 14
4.3.3 Impact Area 3 14
4.3.4 Impact Area 4 14
4.3.5 Impact Area 5 14

LIST OF FIGURES

Figure 1 USGS Site Location

R169 – Dover CUP Permit Map Set, Dover, NH

LIST OF APPENDICES

APPENDIX A WETLAND DELINEATION REPORT

1.0 PROJECT INTRODUCTION AND PURPOSE

Public Service Company of New Hampshire d/b/a Eversource Energy (Eversource) owns and maintains the R169 electrical transmission line that passes through Dover, New Hampshire. Eversource has identified 19 existing wooden structures that need to be replaced on the R169 line (18 in Dover, New Hampshire, and 1 in Eliot, Maine) due to age, cracking, leaning, rot, and/or woodpecker damage, which constitutes the proposed R169 Structure Replacement Project (Project). The existing wooden structures will be replaced with new, steel structures that adhere to current safety and electrical codes to provide more reliable electrical infrastructure.

The R169 Line right-of-way (ROW) begins at the Three Rivers Substation in Eliot adjacent to the Piscataqua River and traverses westerly over the river into Dover, then continues westerly through Dover approximately 3 miles for the remainder of the length of the transmission line to the Dover Substation.

Chapter 170 of the local Zoning Ordinance of the City of Dover, New Hampshire, establishes regulations and guides appropriate use of land. The existing utility ROW and proposed structure replacement activities in Dover bisect various city zoning districts, including the Rural Residential (R-40), Medium Density Residential (R-12), and Urban Density Multi Residential (RM-U) zoning districts and the Cocheco Waterfront District (CWD). The ROW and proposed Project activities also intersect two natural resource protection overlay districts—the Conservation District (per Article 170-27) and the Wetland Protection District (per Article 170-27.1). The purpose of these two overlay districts is to avoid and minimize development impacts to, and similarly conserve, local rivers, streams, wetlands, and flood-prone or steep, erosion-prone areas of Dover. The Project has taken into consideration each the objectives of these overlay districts in the development of construction plans and activities around the identified sensitive resources.

The proposed Project activities require a Conditional Use Permit (CUP) from the City of Dover (hereafter, City) Planning Board for those activities that occur within the Conservation District and the Wetland Protection District per the City's Local Zoning Ordinance (as amended, September 2022) and subsequent guidance from the City Planning and Community Development Department. This CUP application presents the applicable information associated with the Project. In addition to the 18 proposed replacement structures in Dover, Eversource previously identified five utility structures for replacement along the R169 line. A CUP application (#406-22) for the replacement of those five structures was submitted to the City in July 2022 and approved by the Planning Board on July 21, 2022. Replacement of those five structures has been completed.

In accordance with NH RSA 482-A:3 XV, routine utility maintenance work is exempt from the standard NH wetland permit process. However, Eversource is required to submit a Utility Maintenance Activity Statutory Permit-by-Notification, Shoreland Permit-by-Notification, and Alteration of Terrain permit application to the New Hampshire Department of Environmental Services (NHDES) to cover the temporary wetland impact associated with use of timber matting within wetlands required to

complete the proposed structure replacement work, impacts within the developed portions of the Protected Shoreland of the Cocheco River, and proposed upland ground disturbance.

2.0 EXISTING CONDITONS

The existing cleared R169 ROW varies from approximately 100 feet (ft) in most areas to 250 ft wide where the ROW is shared with additional transmission lines near the Piscataqua River. The Project ROW consists of Eversource fee-owned property or Eversource-controlled easements. From the Piscataqua River to the Dover Substation, the ROW traverses westerly through forested, residential, and agricultural landscapes. The ROW primarily crosses rural areas and local roads, as well as the Cocheco River and the Piscataqua River. The topography varies from flat lowlands and fields to undulating hills and steep side slopes. Elevations range from 0 to 90 ft above mean sea level. Soils within the ROW consist primarily of loam and silty loam (see attached CUP plans).

The open upland natural communities in the ROW consist of early successional shrub, sapling, and herbaceous species. Characteristic woody vegetation includes gray birch (*Betula populifolia*), quaking aspen (*Populus tremuloides*), red maple (*Acer rubrum*), sheep-laurel (*Kalmia angustifolia*), late lowbush blueberry (*Vaccinium angustifolium*), white meadowsweet (*Spiraea alba*), Allegheny blackberry (*Rubus allegheniensis*), American hazelnut (*Corylus americana*), red oak (*Quercus rubra*), and red raspberry (*Rubus idaeus*). Commonly observed herbaceous vegetation in the ROW includes little Canada mayflower (*Maianthemum canadense*), wrinkle-leaf goldenrod (*Solidago rugosa*), Canada goldenrod (*Solidago canadensis*), bracken fern (*Pteridium aquilinum*), hay-scented fern (*Dennstaedtia punctilobula*), wild strawberry (*Fragaria virginiana*), bristly dewberry (*Rubus hispidus*), Kentucky blue grass (*Poa pratensis*), and other common grass and wildflower species. Non-native invasive species such as rambler rose (*Rosa multiflora*), Japanese barberry (*Berberis thunbergii*), Morrow's honeysuckle (*Lonicera morrowii*), and glossy false buckthorn (*Frangula alnus*) are present in moderate abundance.

Stantec consulted with the New Hampshire Natural Heritage Bureau, the New Hampshire Fish and Game Department, and the US Fish and Wildlife Service as required for NHDES and US Army Corps of Engineers (USACE) permitting. There were three state-listed wildlife species, three state-listed plant species, and three federally listed wildlife species noted in the vicinity of the Project. Eversource proposes to follow agency recommendations and permit conditions as part of this Project and will conduct recommended surveys as needed.

One potential vernal pool and 23 wetlands were identified within the ROW during a delineation conducted by Stantec (Tom Tetreau, New Hampshire Certified Wetland Scientist #283) in June 2023; results of the wetland survey can be found in Appendix A.

The 307 transmission line ROW intersects the R169 ROW from the south near proposed structure 6 to the Piscataqua River; the nearby 307 line ROW will be utilized for access only. Existing access roads traverse portions of both ROWs. These access roads are unpaved with mostly a loamy sand base with occasional stretches consisting of previously installed stone. The access roads are generally 8 to 12 ft wide in most areas.

Routine vegetation maintenance is performed along the R169 ROW on an approximate 4- to 5-year cycle. The last vegetation maintenance was performed along portions of the R169 ROW in summer 2023. Trees and shrubs capable of growing to heights that could interfere with conductors are trimmed and allowed to regenerate until the next maintenance cycle. Prior to the start of construction, areas around proposed access roads and pads will need additional mowing within the ROW.

3.0 PROJECT DESCRIPTION AND PROPOSED CONDITIONS

3.1 LINE REBUILD: STRUCTURE REPLACEMENT, CONDUCTOR AND OPGW REPLACEMENT

The proposed Project includes replacement of 18 existing wooden transmission line structures along the R169 line in Dover. The replacement (new) structures will be within 10 ft of the previous structure location, with two exceptions: proposed structure 13 will be approximately 140 ft from the existing structure location to avoid wetland and impacts, and proposed structure 20 will be approximately 40 ft from the existing location. A majority of the new structures will be approximately 5 to 10 ft taller than the previous structures to comply with current electrical standards. The one structure proposed for a reduction in height is structure 27, within the shoreland of the Cocheco River, which will be reduced from the current 135 ft to 120 ft. The shorter structure allows for a reduced construction footprint and minimizes potential impacts to the sensitive shoreland area.

The structure replacement process consists of drilling holes near the existing structures and installing a caisson, also referred to as a can, below the ground surface. The new structure is installed in the can and backfilled with clean, suitable rock or gravel material. Spoils produced from drilling the hole will be disposed of in an approved upland location away from wetland areas and will be stabilized with an appropriate conservation/contractor's seed mix and weed-free straw mulch. Some replacement structures may require anchors. Anchors will be installed by excavating trenches, installing concrete block anchors, and backfilling trenches. If soil conditions allow, screw anchors may be installed to minimize ground disturbance. Temporary swamp mats (i.e., matting) will be utilized to access structures located within delineated wetlands or wetland areas that must be crossed for access. Mats will also be used on some occasions to minimize impacts to maintained yards or farmed upland areas. Once the new structure is installed and stable, the wires from the old structure will be transferred to the new structure. Old structures will be cut and removed from the ground in upland locations. To minimize ground disturbance, old structures in wetlands are typically cut flush with the ground surface. In some cases, the bottom of the old structure may be able to be pulled from the wetland with minimal disturbance to the wetland. All construction materials and old structure pieces will be removed and disposed of off-site at an approved disposal facility.

Following completion of the structure replacement and wire work, temporary timber construction mats will be removed. Disturbed wetland areas will be restored and stabilized with weed-free straw mulch. Temporarily disturbed upland areas will also be restored and stabilized through seeding and mulching. Permanently disturbed wetland buffer areas will remain as permanent features. Seed and mulch will be

applied along the shoulders and side slopes of the access roads as necessary and the established access roads will be left in place, with the exception of the area around proposed structures 27 and 28, which will be entirely restored. The work pads and new access road between proposed structures 27 and 28 will be re-contoured to the existing grade, covered with topsoil that was stockpiled during the initial grading, and stabilized with seed and mulch.

Minor tree clearing is proposed as maintenance within the existing access road off Cocheco Street and within the existing ROW near proposed structures 27 and 28 as part of the Project. The Project will submit a Protected Shoreland Permit by Notification to address proposed selectively cut trees in the upland shoreland areas.

3.2 ACCESS

The proposed Project utilizes existing access roads within the R169 line ROW and existing access within the 307 line ROW wherever possible. The majority of the existing access roads are made up of dirt or gravel areas and are proposed to be improved, as necessary, through the addition of clean stone as part of the Project to allow for construction vehicle access. Proposed access roads are shown on the attached map set. Access road entrances are located off local roadways and utilize existing entrances wherever possible. Driveways permits are not anticipated to be required from the City. There are no state-owned roads in the project area; therefore, temporary driveway permits from the New Hampshire Department of Transportation will not be required for construction. The proposed access roads were sited to minimize ground disturbance and temporary wetland impacts to the greatest extent practicable while providing safe and efficient access to the existing structures. Timber matting will be used to cross all wetland and stream resources that cannot be avoided completely.

3.2.1 Road Construction

Proposed upland access road improvements include construction of approximately 12- to 16-ft-wide gravel and stone roads within the ROW and in some cases adjacent to the ROW. The roads will provide access to existing utility structures for replacement activities. The improved access roads will provide reliable, permanent access to utility infrastructure during future maintenance or emergency repairs. Where possible, the proposed access roads will be located on top of existing dirt roads or trails. If no existing routes are available or suitable, a new road will be constructed. Minor grading may be necessary to remove large boulders and create a flat surface for the new rock or gravel.

Project plans require tree removal along the widening the existing access road off Cocheco Street to proposed structures 27 and 28 to a width of 12 ft to accommodate equipment for the structure replacements. Tree removal at this location will occur within the existing utility ROW and along the existing access road on Eversource property and will be conducted between November 1 and April 14 to avoid potential impacts to federally listed wildlife species if present.

3.2.2 Wetland and Upland Temporary Matting

Access through maintained fields and private property within uplands and delineated wetlands in the Project area will utilize temporary timber construction mats to minimize ground disturbance and prevent

rutting. Where necessary in overly saturated conditions, runners (mats placed parallel to the direction of travel) will be placed on the wetland surface prior to setting the top, perpendicular layer of mats. This will help reduce settling and overall wetland disturbance.

3.2.3 Work Pad Construction

The proposed Project includes construction of 18 structure replacement work pads approximately 100 ft by 100 ft each, with some exceptions. With the exception of work pads located within wetlands, upland work pads will be constructed using clean stone. The work pads will be top dressed with compacted 1.5- to 3-inch-diameter clean stone. After the structure replacement work is complete, restoration of upland work pads will consist of utilizing stockpiled topsoil to reduce work pads to approximately 30 ft by 60 ft. Restored areas will be stabilized with seed and mulch. Proposed work pads located in wetland areas will be constructed using temporary timber construction mats and will be removed upon completion of the work.

3.3 CONSTRUCTION SEQUENCE

The general Project construction sequence will be:

1. Installation of appropriate signage along public roads near construction entrances;
2. Installation of erosion control devices, as needed;
    a. Erosion control practices will follow the *Best Management Practices Manual for Utility Maintenance in and Adjacent to Wetland and Waterbodies in New Hampshire* (Utility BMP Manual) published by the New Hampshire Department of Natural and Cultural Resources (March 2019).
3. Placement of construction mats in wetlands for access roads and work pads;
4. Grading and improvements of upland access roads and work pads;
5. Stabilization (seed and mulch) of exposed soils on created side slopes;
6. Replacement of structures:
    a. Drill new structure holes;
    b. Install new poles and structure components;
    c. Transfer electrical lines from old structure to new structure; and
    d. Remove and haul away old structure.
7. Clean up excess/stockpiled material at work pads;
8. Smoothing/grading upland work pads and stabilizing and restoring with seed and mulch as necessary;
9. Removing construction mats from wetland areas and stabilizing/restoring disturbed wetland areas with weed-free straw mulch; and

10. Stabilization, restoration, and clean up staging areas and entrance points.

Provided necessary permits are in place and to the extent possible, work would begin in April 2024 and continue through fall 2024. Entrances, access roads, and work pads will be created prior to structure replacement work. New structure holes will likely be drilled prior to mobilization of structure replacement equipment (cranes, bucket trucks). Installing new poles and transferring wires will be completed prior to moving on to the next structure. Multiple structure replacement crews may be working in different areas to expedite the process. Removal of mats and restoration will occur as individual work areas are completed.

3.4 BEST MANAGEMENT PRACTICES

3.4.1 Erosion and Sedimentation Control

Work will be conducted in accordance with the Utility BMP Manual. Following these BMPs will minimize and avoid impacts to wetland and stream resources and the surrounding upland areas to the greatest extent practicable.

Perimeter erosion controls consisting of silt fence, straw wattles, mulch, and straw bales will be installed as necessary around the work areas to minimize potential impacts to adjacent resource areas. Water bars, also known as diversion ditches, will be installed along access roads with steep slopes, where necessary, to prevent water from traveling long distances down the road causing erosion. Water bars will direct water off the road into adjacent upland areas. Exposed soil created during construction will be stabilized with seed and mulch as soon as possible after active work in the area is complete. No equipment or material will be stored within wetland areas.

3.4.2 Invasive Species Control Plan

Due to the developed landscape surrounding the majority of the R169 line, invasive plant species occur within the ROW and were observed during field surveys. Contractors will follow the invasive species recommendations in the Utility BMP Manual to help prevent the spread of invasive species, including inspection and cleaning of equipment and contractor training. Equipment, including construction mats, brought to the Project area will be inspected by the contractor and/or environmental monitor, and if plant material or soil is present, the equipment will be cleaned and dried prior to use on the Project. Contractors will be familiar with identification of common invasive species and will be required to clean mats and equipment prior to their use elsewhere. If possible and without increasing wetland impacts, the contractors may also make slight shifts in access roads or work pads to avoid invasive species locations.

3.4.3 Construction Observation and Post Construction Monitoring

During construction, Eversource will contract an environmental monitor to perform routine construction observation visits. The environmental monitor will inspect the Project area for compliance with the Utility BMP Manual and applicable Project permits and conditions. Construction observation visits will occur at least once per week and/or after a significant rainfall (0.5 inches or greater) or snow melt event. Under the National Pollutant Discharge Elimination System, Eversource will file a Notice of Intent and

Stormwater Pollution Prevention Plan (SWPPP) under the U.S. Environmental Protection Agency's Construction General Permit. Construction observation visits and associated reporting will follow the SWPPP and Construction General Permit guidelines and be performed by a qualified individual familiar with the SWPPP, Utility BMP Manual, and Project specific permit conditions.

A series of post-construction monitoring visits in the Project area will be performed by a qualified environmental scientist to document that disturbed areas are properly stabilized and vegetation is beginning to regrow. Site restoration will be considered successful when there is at least 85% cover by native or non-invasive herbaceous plant species within the restored portions of the ROW, including restored wetland areas. This does not include gravel work pads or access roads that existed prior to construction or were created during construction, with the exception of the gravel work pads and road for proposed structures 27 and 28, which will be restored to natural grade, topsoil spread, and stabilized with seed and mulch. The environmental scientist will prepare a report following each post-construction monitoring visit that includes representative photographs and corrective actions (if applicable). Once the disturbed uplands and temporarily impacted wetlands within the Project area are determined to be permanently stabilized, post-construction monitoring will be considered complete, and a Notice of Termination will be filed under the U.S. Environmental Protection Agency's Construction General Permit.

4.0 OVERLAY ZONING DISTRICT IMPACTS AND ACTIVITIES

The ROW and proposed Project activities intersect natural resource protection overlay districts in Dover, including the Conservation District and the Wetland Protection District. The following summarizes the Project-specific components in the respective overlay districts.

Proposed temporary impacts to wetlands were minimized to the maximum extent practical during project planning. This included modifications to ROW access, reducing the size and positioning of the proposed utility poles, the utilization of timber matting and/or tracked equipment, and the location and orientation of work pads. Timber matting will be installed to completely span streams, where necessary, to avoid impacts to the stream bed and banks.

For the purposes of this CUP, resource impacts have been divided into 5 Impact Areas and corresponding map sheets, as shown per wetland and stream in the attached map set and in Table 1. Given the overlapping overlay districts and associated buffers, impacts were quantified in Table 1 below by direct resource impact and overlay district buffer impacts. The district buffers were established by taking the farthest buffer (such as when a stream channel is encompassed by a surrounding wetland, the larger Conservation District buffer was used).

Table 1: City of Dover Proposed Wetland Protection and Conservation District Impacts

District	Resource Impacts (SF)	Impact Area 1 (Map Sheet 1)	Impact Area 2 (Map Sheet 2)	Impact Area 3 (Map Sheet 3)	Impact Area 4 (Map Sheet 4)	Impact Area 5 (Map Sheet 5)
Wetland Protection District	Temporary Wetland Impact	-	742	23,279	3,188	29,676
	Temporary Wetland Buffer Impact	5,526	1,802	16,716	1,852	942
	Permanent Wetl and Buffer Impact*	-	-	29,941	-	-
Conservation District	Temporary Area Subject to Tidal Action Buffer Impact	19,734	-	-	-	-
	Temporary Stream Resource Buffer Impact	-	1,515	-	-	-
Overlapping Districts		5,526	773	-	-	-
	Total	**25,260**	**4,059**	**69,936**	**5,040**	**30,618**

*Based on 12-ft disturbance area for new gravel access
Overlapping Districts are illustrative of how much districts overlap and not part of total for each Map Sheet.

4.1 WETLAND PROTECTION DISTRICT

The Wetland Protection District includes all areas of wetlands and 50-ft wetland buffers, as defined in Dover Zoning Ordinance, Article 170-27.1. Project activities subject to a CUP that are within the Wetland Protection District are limited to temporary placement of timber mats in wetlands and at stream crossings and the creation of stone work pads and access road improvements in wetland buffer areas. New structures will be placed in the same general location as the existing structures, as described in section 3.1 above. The proposed access roads were sited along existing roads or trails wherever possible.

The Project will meet the following Wetland Protection District standards for Conditional Use Approval, as outlined in the Dover Zoning Ordinance, Article 170-27.1F(1).

(a) *Practicable Alternative: There is no practicable alternative that would have a less adverse impact on the area.*

The Project site is an existing transmission line within a utility ROW. The proposed structure replacement work is necessary to maintain reliability and safe operation of the existing R169 line. Alternative locations would require creation of a new ROW, and increased impacts to resources and the surrounding landscape and were not considered. The replacement structures must be located on the alignment of the existing transmission line and must be located within the existing ROW. The Project has been designed to reduce the footprint of the construction as much as

possible. For example, the proposed access route between structures 14 and 15 was designed to utilize a narrow upland area on the south side of the ROW to minimize wetland impacts as much as possible while maintaining required clearances for working equipment from overhead wires and adjacent tree lines. For example, in addition to reducing the height and footprint of proposed structure 27 near the Cocheco River, the Project proposes to move access roads to uplands where possible, completely restore impacted areas adjacent to the Cocheco River, smooth/grade upland work pads, and stabilize and restore with seed and mulch as necessary.

Upland work pads, other than those near the Cocheco River, are typically restored to an approximately 30-ft by 60-ft size. Topsoil pushed to the sides during the initial construction will be used to cover the work pads. Exposed soils will be stabilized with seed and mulch. Temporary construction mats will be removed from wetland areas as soon as work is complete and wetland areas will be stabilized/restored with weed-free straw mulch, if necessary. Matting will be removed in a similar manner to how it was installed.

(b) *Avoidance: The potential impacts have been avoided to the maximum extent practicable. The APPLICANT will demonstrate by plan and example that the proposed construction represents the least impacting alternative.*

The proposed structure replacements have been designed to avoid permanent fill and loss of wetland and stream areas by utilizing upland areas as much as possible and using temporary construction mats. The mats will result in minimal temporary disturbance of the shrub and herbaceous vegetation underneath, but the vegetation is expected to quickly recover following removal of the construction mats after construction is complete. Mats will be used to span streams and will not disturb streambanks or modify hydrology.

Wetlands will be protected from stormwater runoff through erosion and sedimentation control measures, and exposed soils will be stabilized in accordance with the measures discussed in Section 3.4.1. Additionally, appropriate siltation prevention measures will be implemented and inspected during construction and post-construction to prevent erosion, siltation, and turbidity. The erosion control methods and materials will follow the Utility BMP Manual. Perimeter controls (silt fence, straw bales, straw wattles, etc.) will be installed along the limits of work to protect adjacent resources and off-site area. If necessary, other BMPs including stone check dams and dewatering basins will be used to control and treat stormwater and prevent runoff to abutting or downslope properties.

The tidal wetland, wetland W02 associated with the Cocheco River, will be completely avoided by construction activities. Work will occur within the adjacent upland only, and erosion and sedimentation controls will be installed prior to ground disturbance to protect the wetland and river.

(c) *Minimization: Any unavoidable impacts have been minimized. No reasonable Alternative to the proposed construction exists which does not impact a wetland or which has less detrimental impact on a wetland. Design, construction and maintenance methods will be*

prepared by a registered engineer to minimize detrimental impacts to the wetlands and will include restoration of the site as nearly as possible to its original grade.

The Project is designed to replace existing infrastructure in an existing and maintained utility ROW. The Project does not propose any permanent impacts directly to surface waters or wetlands. Areas where district buffers are impacted have been reduced by using upland matting adjacent to wetlands in some areas and by reducing the overall footprint of structure work pads in others. Additionally, where ground disturbance and work area construction will occur near wetlands, appropriate erosion prevention measures will be implemented during construction and post-construction to prevent the migration of sediment laden runoff from reaching the adjacent wetlands. These areas will be inspected regularly for correct installation and to confirm that they remain effective erosion prevention measures.

The erosion control prevention and sediment control methods and materials will follow the Utility BMP Manual. Perimeter controls (silt fence, straw bales, straw wattles, etc.) will be used to protect adjacent resources and off-site areas. If necessary, other BMPs including stone check dams and dewatering basins will be used to control and treat stormwater and prevent runoff to abutting or downstream properties.

Temporary wetland and wetland buffer impacts will be avoided and minimized by following the Utility BMP Manual. This includes:

- Using wooden construction mats to support machinery in wetlands;
- Removing and restoring temporary impacts to wetlands, if necessary;
- Smoothing rutted areas, seeding as required, and mulching with weed-free straw;
- Using erosion and sediment controls as needed where ground disturbing activities are adjacent to wetland areas;
- Requiring contractors to follow practices outlined in the Utility BMP Manual to help prevent the spread of invasive species; and
- Conducting weekly inspections to monitor compliance with minimization measures and providing any site restoration recommendations as needed.

The new structure locations and associated structure components were designed by Eversource's engineers. Work and access roads were designed based on the results of the wetland delineation performed by a New Hampshire Certified Wetland Scientist and a constructability field review by Eversource engineers and construction personnel.

(d) Mitigation: If the APPLICANT is required by State rules to prepare a compensatory mitigation plan, the APPLICANT shall provide the Conservation Commission and PLANNING BOARD with one copy each of said plan for their review.

The Project will require temporary matting impacts to wetlands but will not result in permanent loss of any wetland area or permanent alterations to the wetland hydrology or associated vegetation; therefore, a compensatory mitigation plan is not proposed for the work in any of the

five Impact Areas. Additionally, the applicant has consulted with the NHDES Wetlands Bureau, which has concurred with the minimum impact determination for the R169 Project.

(e) *Approval for the wetlands impact has been received from the NHDES Wetlands Bureau pursuant to Section G (3), below.*

A Wetlands Utility Maintenance Activity SPN will be submitted for the Project. On November 16, 2023, Eversource met with the NHDES Wetlands Bureau and the USACE. During this meeting, a determination was made that the Project qualified for a 'minimum impact' since there are no permanent impacts to delineated wetlands, vernal pools, streams or other sensitive resources associated with the Project and Eversource will minimize temporary impacts and restore permanent upland impacts. The SPN application and NHDES and USACE permit approvals will be forwarded to the City as required and/or requested. Additional pending approvals are listed in Section 4.2 below.

4.2 CONSERVATION DISTRICT

The Conservation District includes water bodies, rivers, streams, swamps and marshes subject to tidal action and those areas within a minimum of 100 ft of each, as defined in Dover Zoning Ordinance, Article 170-27. The Conservation District also includes specific lots as defined in Article 170-27, as well as areas with slopes 20% and more than 2,000 square feet (sf) of contiguous area, neither of which is located within the Project area. Project activities subject to a CUP that are within the Conservation District are limited to temporary placement of timber mats at stream crossings and creation of stone work pads and access road improvements in river and stream buffer areas. New structures will be placed in the same general location as the existing structures. The proposed access roads were sited along existing roads or trails wherever possible.

The Project will meet the following Conservation District standards for Conditional Use Approval, as outlined in the Dover Zoning Ordinance, Article 170-27.C(2).

(a) The APPLICANT shall demonstrate that the proposed use is essential to the productive use of land not in the district; is located and constructed to minimize any detrimental impact of such use upon the surface waters or other environmentally sensitive areas, where it is physically impossible to locate such use on land not in the district; and economic advantage alone shall not be deemed a sufficient reason for such proposed use.

Approval of this CUP application would allow Eversource to maintain critical infrastructure necessary to provide the public with reliable electricity. The existing structures and line are currently located within the Conservation District and would remain as such following the structure replacements. The proposed Project is in the public's interest (versus economic advantage to Eversource) because the structure replacements will allow for the continued supply of reliable electricity to Eversource's customers. The avoidance and minimization efforts described above in section 4.1 for the Wetland Protection District also apply to the Conservation District.

(b) *A soil erosion and sedimentation control plan is submitted and followed to verify the planned avoidance of sediment pollutant runoff to bodies of water. This plan will address the following (if applicable), but should not be limited to:*

(i) stabilization of exposed soils and soil stockpiles;
(ii) protection of steep slopes from erosion;
(iii) construction site waste management;
(iv) inspection and maintenance of runoff control measures (BMPs);
(v) minimization of land clearing;
(vi) stabilization of drainage ways;
(vii) installation of perimeter controls;
(viii) installation of sediment trapping devices; and
(ix) storm drain inlet protection.

Erosion and sedimentation control practices will follow the Utility BMP Manual). Typical erosion and sedimentation controls devices used within the ROW may consist of silt fence, straw wattles, stone check dams, and/or hay and weed-free straw mulch stabilization. Erosion and sedimentation control notes and details are included on the attached map set. Approximate locations of erosion and sedimentation controls are shown around proposed work areas and access roads on the attached map set. Installation and maintenance of erosion and sedimentation controls will occur throughout the construction phase of the project. The controls will be inspected regularly by Eversource's contractors and environmental monitors and maintained and/or replaced as needed. Additional details are provided in sections 3.3 and 3.4 above.

(c) Necessary state and federal approvals have been applied for. Said permits shall be received prior to the issuance of the Conditional Use Permit by the Planning and Community Development Department.

Regulatory permits, approvals, and notifications required for the proposed Project are summarized below. The City will be provided copies of permit approvals when they are received. Given the review periods associated with some of the required permits, Eversource requests that the City condition approval of the CUP so that permit may be provided as they are received, rather than prior to the issuance of the CUP. The following state and federal permits are anticipated to be required for the Project:

- NHDES Utility Statutory Permit by Notification (submitted)
- NHDES Protected Shoreland Permit by Notification (pending submission)
- NHDES Alteration of Terrian Permit (submitted)
- USACE Pre-Construction Notification (pending submission)
- USACE Section 408 Variance Approval (pending)

(d) *A written review by the Conservation Commission of the environmental effects of the proposed use upon the area in question has been submitted. The Commission's review shall address the following, but is not limited to:*

(i) attempted avoidance of the impact;

(ii) minimization of the impact;

(iii) planned mitigation of the effects of the impact; and

(iv) efficacy of the soil erosion and sedimentation control plan.

Watercourses and surface waters have been avoided to the extent possible, and no alterations of banks or natural geomorphology are proposed. Temporary construction mats will be used to bridge, and avoid, stream areas; mats will be removed following construction. Conditions or requests for information related to environmental effects made by the local Conservation Commission will be documented and applied to the project where feasible.

4.3 IMPACT AREAS

Anticipated temporary and permanent impacts within the Conservation District and Wetland Protection District are summarized by Impact Area in Table 1 and described per area below. Each area corresponds with respective map sheets (Impact Area 1 corresponds with Map Sheet 1, etc.) in the attached CUP permit map set. Temporary impacts include timber matting and areas that will be restored post-construction, and permanent impacts within buffers are for gravel access road and work pad construction. Most of the impacts across the five impact areas (Map Sheets 1–5) occur in the Wetland Protection District and of those impacts 64% are temporary; the remaining 36% are permanent impacts in upland wetland buffer areas (see Impact Area discussions below for more details).

4.3.1 Impact Area 1

Within the Wetland Protection District, anticipated impacts in Impact Area 1 include approximately 5,526 sf of temporary impacts within wetland buffer areas of wetland W02 (overlaps 100% with areas subject to tidal action in the Conservation District), and approximately 19,734 sf of temporary impacts within the buffer area of areas subject to tidal action in the Conservation District. These temporary impacts associated with the creation of access roads and work pad construction are necessary to complete the replacement of proposed structures 27 and 28. Disturbances associated with these structure replacements will be fully restored once construction is complete, and no permanent impacts are anticipated in either District.

Impacts were avoided and minimized to the greatest extent practicable by minimizing the length of the new access road, locating access roads and work pads outside of wetland boundaries and wetland buffers, where possible, utilizing existing disturbances/access roads, and reducing the construction footprint and restoring areas along the Cocheco River shoreland that are within the Wetland Protection and Conservation Districts.

4.3.2 Impact Area 2

Within the Wetland Protection District, anticipated impacts in Impact Area 2 include approximately 742 sf of temporary wetland impacts (i.e., timber matting) and approximately 1,802 sf of temporary impacts in wetland buffer areas to cross wetland W11 and stream S04 along the access route between proposed structures 18 and 19. Within the Conservation District, approximately 1,515 sf of temporary impacts in stream buffer areas are anticipated. Overlapping buffer areas include approximately 773 sf of temporary impacts. Areas within and surrounding the Districts are existing fields and residential areas, and temporary upland matting will be used to avoid ground disturbance at the landowner's request. No permanent impacts are anticipated within either District.

4.3.3 Impact Area 3

Within the Wetland Protection District, anticipated impacts in Impact Area 3 include approximately 23,279 sf of temporary wetland impact (i.e., timber matting), approximately 16,716 sf of temporary impact in wetland buffer areas, and approximately 29,941 sf of permanent impact in wetland buffer areas to create the access road and work areas associated with proposed structures 13 through 18, across wetlands W12 through W16.

Impact Area 3 is the only Impact Area on the R169 line where upland buffer area impacts are proposed to be permanent (see Table 1 and Map Sheet 3 of 5). The permanent impacts are a result of the proposed 100-ft by 100-ft gravel work pads around proposed structures 14, 15, 16, and 18. In the case of the pads at proposed structures 14, 15, and 18, a portion of the 100-ft by 100-ft pad area will be gravel, with the remaining pad area constructed using temporary wetland matting. In these three locations, it is likely that the temporary matting will cover an even greater proportion of the pad area. Proposed structure 16 is the sole location where the entire pad is proposed to be gravel, and this location is entirely upland. No temporary or permanent impacts are anticipated within the Conservation District in Impact Area 3.

4.3.4 Impact Area 4

Within the Wetland Protection District, anticipated impacts in Impact Area 4 include approximately 3,188 sf of temporary wetland impact (i.e., timber matting) and approximately 1,852 sf of temporary impact in wetland buffer areas. Temporary impacts to wetlands and buffers include access across wetland W17 between proposed structures 9 and 10, and work areas and access in wetland W18 at proposed structure 7; no permanent impacts are anticipated due to landowner requests to use upland matting to protect existing field areas. No Conservation Districts are present in Impact Area 4.

4.3.5 Impact Area 5

Within the Wetland Protection District, anticipated impacts in Impact Area 5 include approximately 29,676 sf of temporary wetland impact (i.e., timber matting) and approximately 942 sf of temporary impact in wetland buffer areas to create work areas and access in wetland W18 associated with proposed structure 6; no permanent impacts are proposed. The Project will utilize an existing gravel access road from the 307 line ROW to proposed structure 6 to traverse through the Conservation Districts associated with

streams S05, S06, and S07 to avoid temporary and permanent impacts within those buffers. No work is proposed within the Conservation District associated with the Piscataqua River.

PHOTOGRAPHS

R169 STRUCTURE REPLACEMENT PROJECT
CUP APPLICATION - REPRESENTATIVE PHOTOGRAPHS

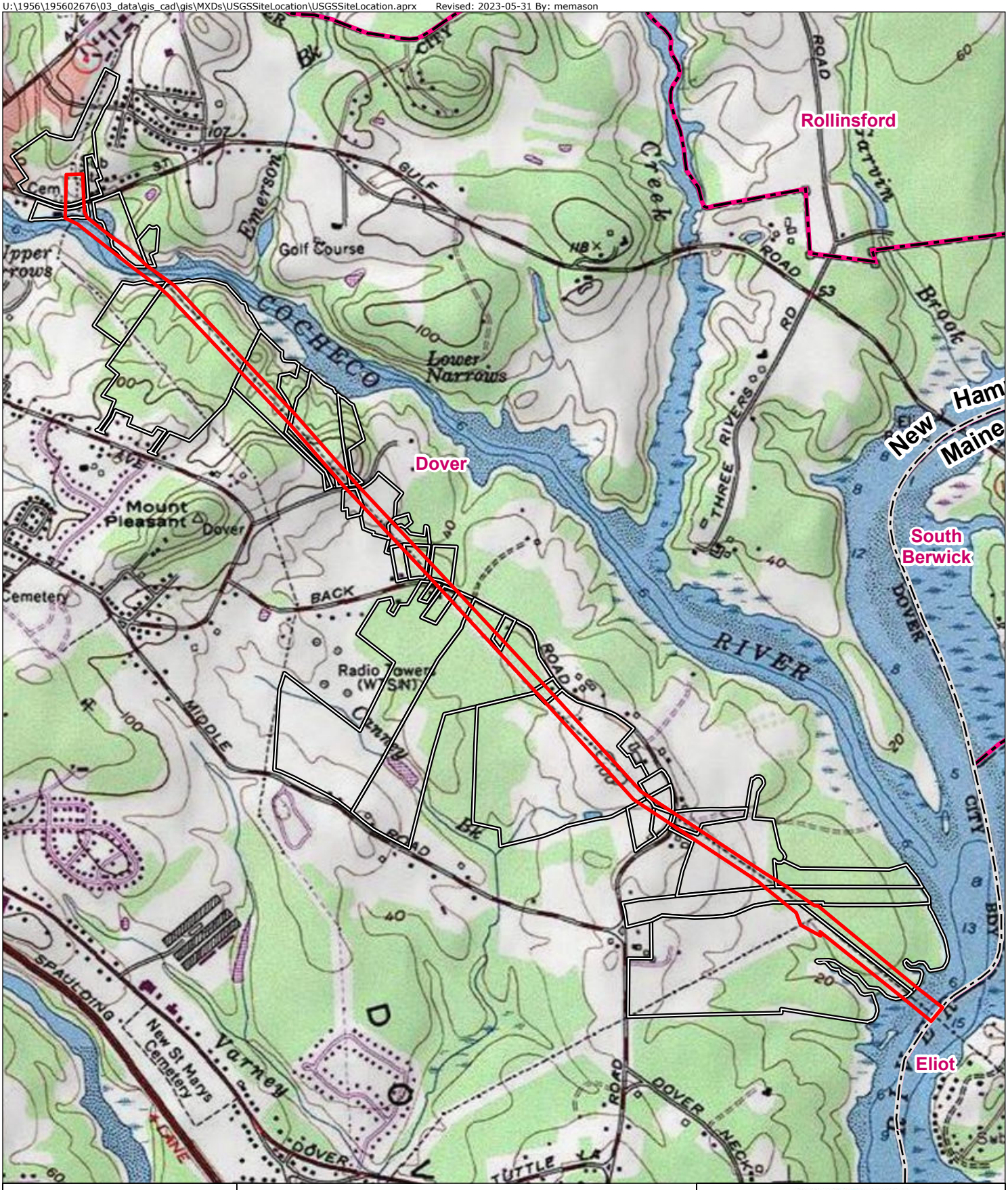
December 22, 2023

Photo 1. Representative view of the ROW and wetland W17 in active pasture area looking northwest to proposed structure 10. Stantec. June 9, 2023.

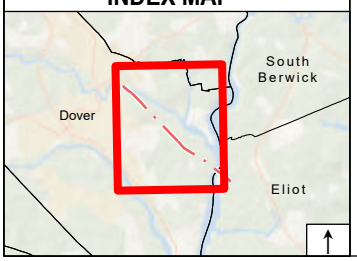
Photo 2. Representative view of the ROW and wetland W18. View west to proposed structures 7 and 8. Stantec. June 8, 2023.

FIGURES

U:\1956\195602676\03_data\gis_cad\gis\MXDs\USGSSiteLocation\USGSSiteLocation.aprx Revised: 2023-05-31 By: memason



INDEX MAP



Legend

- Approximate Project Limits
- Municipal Boundary
- State Boundary
- Abutting Parcel Boundary

N

1 inch = 1,500 Feet

0 750 1,500 Feet

EVERSOURCE ENERGY

Dover to Eliot (R169)
Structure Replacement Project

Date: May 31, 2023

Figure 1
USGS Location Map

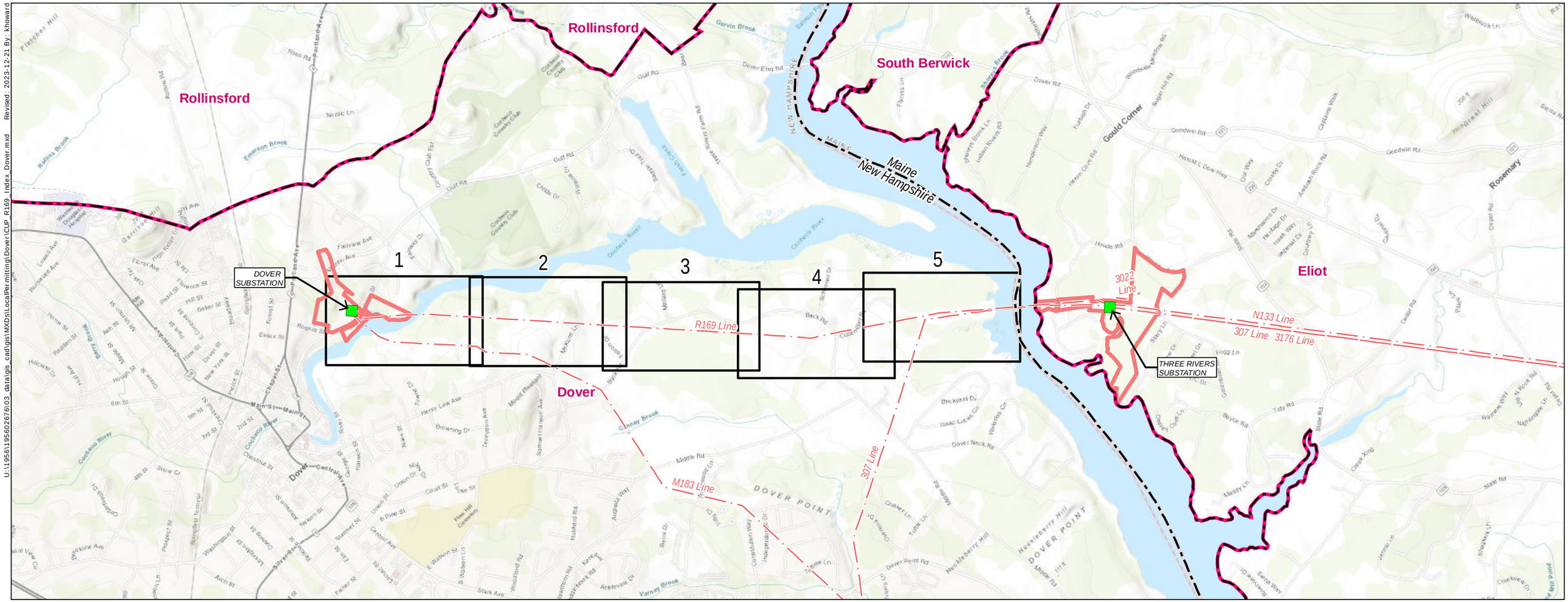
R169 Line - Structure Replacement Project

Dover, NH

Environmental Resources Map

Dover CUP Permit Map Set

Date: December 21, 2023



Legend

Substation | Municipal Boundary | State Boundary | Map Sheet | Eversource Owned Property

PREPARED FOR:

EVERSOURCE ENERGY

107 Selden Street
Berlin, CT 06037

N

0 2,000 4,000 Feet

INDEX OF FIGURES

Title Sheet / Index Map
Map Sheets 1-5

PREPARED BY:

Stantec

30 Park Drive
Topsham, ME 04086

Temporary Wetland Impact (SF)	Temporary Wetland Protection District Impact (SF)	Temporary Conservation District Impact (SF)	Permanent Wetland Protection District Impact (SF)	Permanent Conservation District Impact (SF)
3,188	1,852	-	-	-

FENCE TO BE REMOVED AND REPLACED

OFF-ROW ACCESS (PERMISSION REQUIRED) TO BE USED AS BUCKET TRUCK ACCESS TO STRUCTURES 10, 11, AND 12 FOR OPGW WORK. ACCESS ROAD MATTING IN FIELD TO BE RE-INSTALLED IF SOFT CONDITIONS ARE PRESENT

EXISTING VINEYARD CROP TO BE AVOIDED

ABOVE GROUND WATER UTILITY RISER IN ROW TO BE AVOIDED

TEMPORARY WETLAND IMPACT: +/-3,188 SQ.FT.

ACCESS FROM BACK ROAD

EXISTING LAWN TO BE RESTORED

SCHOONER DRIVE

BACK ROAD

CULLEN BAY ROAD

Dover

W16-PE

W17-PEM

W18-PSS

R169 Line

831-008
Tax Map ID: M0100-B00000
Gregory W Hunt
295 Back Road

831-007
Tax Map ID: M0105-002000
Christopher D Berg
303 Back Road

831-004
Tax Map ID: M0093-B00000
Nancy Magiaras
362 Back Road

831-003
Tax Map ID: M0092-B00000
Cullen Bay Homeowners Association
Cullen Bay Road

831-005
Tax Map ID: M0105-000000
Eric W Thompson
321 Back Road

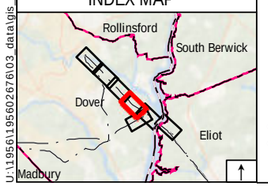
831-009
Tax Map ID: M0100-A00000
Nancy E Hunt
245 Back Road

831-006
Tax Map ID: M0105-001000
William C & Nancy Hunt Trustees
Back Road

831-001
Tax Map ID: M0092-A00000
Patricia Langs
Back Road

829-138
Tax Map ID: M0091-A00000
Townsquare Media Portsmouth LLC
292 Middle Road

INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending
- Proposed Access
- Sediment Control Barrier (Typ.)
- Stone Work Pad
- Temporary Wetland Construction Matting
- Temporary Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 330 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- FEMA 100-Year Flood Zone
- FEMA Floodway
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- NHDES 250' Protected Shoreland
- Conservation District
- Wetland Protection District

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines provided by Eversource Energy. Wetlands, watercourses, and potential vernal pools delineated and verified by Stantec June 2023. Additional sources include: FEMA, NH Granit, Maine Geolibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery.

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

R169 Line Structure Replacement
Dover CUP Permit Map Set

Dover, NH	MAP SHEET 4 of 5
Date: December 21, 2023	Stantec

U:\11956\119560267\6\03_data\gis_cad\gis\MXDs\LocalPermitting\Dover1CUP_R169_MapSet_Dover1.mxd Revised: 2023-12-21 By: khoward

APPENDICES

Appendix A WETLAND DELINEATION REPORT

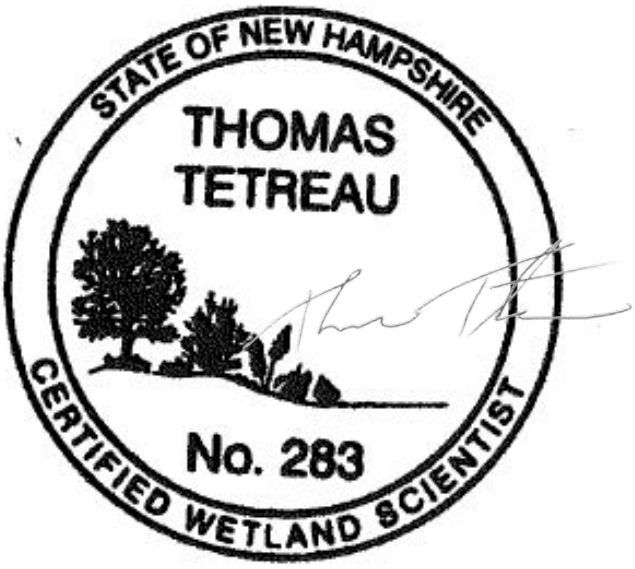
Wetland and Watercourse Delineation and Functional Assessment Report: R169 Structure Replacement Project

Dover, New Hampshire, and Eliot, Maine

September 14, 2023

Prepared for:

Eversource Energy
13 Legends Drive
Hooksett, NH 03106



Prepared by:

Stantec Consulting Services Inc.
30 Park Drive
Topsham, ME 04086

Table of Contents

1.0 INTRODUCTION 1

2.0 METHODS 1
2.1 WETLAND AND WATERCOURSE DELINEATION 1
2.2 FUNCTIONAL ASSESSMENT 2

3.0 RESULTS 3
3.1 GENERAL SITE DESCRIPTION 3
3.2 WETLAND AND WATERCOURSE DELINEATION 3
3.3 FUNCTIONAL ASSESSMENT 7

LIST OF TABLES

Table 1. Summary of Delineated Wetlands 4
Table 2. Summary of Delineated Streams 6
Table 3. Summary of Identified Vernal Pools 7
Table 4. Summary of Functional Assessment 8

LIST OF FIGURES

Permit Map Set

LIST OF APPENDICES

Appendix A Representative Photographs
Appendix B Corps Wetland Determination Data Forms (provided upon request)
Appendix C Wetlands Functional Assessment Worksheets (provided upon request)
Appendix D Observed Wildlife

1.0 INTRODUCTION

Eversource Energy (Eversource) proposes to replace approximately 20 existing transmission line structures located within the full length of the R169 Line, totaling approximately 3 miles of combined transmission line right-of-way (ROW) in Dover, New Hampshire and Eliot, Maine (Project Site; see attached Draft Map Set). Of the 20 structures proposed to be replaced, 19 are located in Dover and 1 is located in Eliot. Stantec Consulting Services Inc. (Stantec) was contracted to conduct wetland and watercourse delineations and a wetland functional assessment of the Project Site to support federal, state, and local natural resource permitting.

Stantec conducted on-site delineations within the existing ROW between June 8 and June 9, 2023. The delineations were conducted by Tom Tetreau, New Hampshire Certified Wetland Scientist #283. This report includes descriptions of the wetland and watercourse delineation methods and results.

2.0 METHODS

2.1 WETLAND AND WATERCOURSE DELINEATION

The R169 Line was previously delineated over 5 years ago, and the spatial data of these previously delineated wetlands and watercourses were used to aid in the 2023 wetland and watercourse delineation.

Wetland boundaries under local, state, and federal jurisdiction were determined using the technical criteria described in the U.S. Army Corps of Engineers (Corps) *Corps of Engineers Wetlands Delineation Manual*[1] and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Regional Supplement.*[2] Wetland communities were classified according to the *Classification of Wetlands and Deepwater Habitats of the United States.*[3] Hydric soil determinations were made in accordance with the Corps wetland delineation manuals and the *Field Indicators for Identifying Hydric Soils in New England (Version 4).*[4]

Wetland boundaries anticipated to meet state, federal, and local jurisdictional criteria were located using a Global Positioning System (GPS) receiver capable of submeter accuracy. The previously delineated

[1] Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1. U.S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, MS.
[2] U.S. Army Corps of Engineers. 2011. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Version 2.0), ed. J. S. Wakeley, R. W. Lichvar, and C. V. Noble. ERDC/EL TR-12-1. Vicksburg, MS: U.S. Army Engineer Research and Development Center.
[3] Federal Geographic Data Committee. 2013. Classification of wetlands and deepwater habitats of the United States. FGDC-STD-004-2013. Second Edition. Wetlands Subcommittee, Federal Geographic Data Committee and U.S. Fish and Wildlife Service, Washington, DC.
[4] New England Hydric Soils Technical Committee. 2017. Field Indicators for Identifying Hydric Soils in New England (Version 4).

wetland boundaries were confirmed using the GPS, with revisions to the boundaries located with the GPS as necessary.

Watercourses (e.g., streams) identified during the delineations were identified based on the definitions in NHDES Certified Administrative Rules Env-Wt 406.04, as well as the technical guidance available from the Corps on the identification of an Ordinary High Water Mark.[5] The top of each bank was mapped for streams typically over 6 feet wide, and the centerline was mapped for streams with top of bank widths up to 6 feet wide. Data was collected on flow regime, top of bank, band depth, Ordinary High Water Mark widths, dominant substrates, and evidence of biological use. GPS data were used to produce the attached map set.

The wetland delineation occurred outside the appropriate identification period for vernal pool indicator species; therefore, potential vernal pools were identified and evaluated in accordance with the *Identification and Documentation of Vernal Pools in New Hampshire.*[6] Potential vernal pools were primarily identified based on their physical characteristics and landscape position, and the presence of vernal pool indicator species, if observed. Observations of approximate size, hydrology, and evidence of disturbance were recorded. The boundaries of the potential vernal pools were located with GPS receivers, and photographs were taken of each vernal pool identified.

Priority Resource Areas (PRA), as defined in Env-Wt 103.66, were identified based on field observations and use of the Wetlands Permit Planning Tool.[7] PRAs identified along the R169 Line consisted of wetlands contiguous with tier 3 streams, tidal wetlands, and undeveloped tidal buffer zones.

2.2 FUNCTIONAL ASSESSMENT

Stantec performed a wetland functional assessment of the delineated wetlands and watercourses in accordance with New Hampshire Wetland Rules (Env-Wt 311.10). Wetland functions and values were qualitatively evaluated through direct field observation and a review of existing public data resources following the New Hampshire Method for evaluating the Ecological Integrity of the Wetlands and Streams (RSA 482-A:2, XI) and Corps *Highway Methodology Workbook Supplement.*[8] Information was collected to prepare Corps Wetland Determination Data Forms and Wetlands Functional Assessment Worksheets. Full assessments of Ecological Integrity using the New Hampshire Method is based on a series of desktop and field assessments and results in a numerical Functional Value Index for each wetland. Due to the length of the Project area, the abundance of wetlands, and the anticipated wetland impacts associated with the Project (temporary timber matting), Stantec evaluated the Ecological Integrity of each wetland using a qualitative value of low, medium, and high that considered the condition of the wetland

[5] U.S. Army Corps of Engineers. 2005. Regulatory Guidance Letter: Ordinary High Water Mark Identification. December 8, 2005. No. 05-05.

[6] Marchand, M. 2016. *Identifying and Documenting Vernal Pools in New Hampshire*. Third Edition, New Hampshire Fish and Game Department, Nongame and Endangered Wildlife Program.

[7] https://nhdeswppt.unh.edu/, accessed June 2023.

[8] U.S. Army Corps of Engineers. 1999. The Highway Methodology Workbook Supplement, Wetland Functions and Values: A Descriptive Approach. U.S. Army Corps of Engineers. New England Division. 32pp. NAEEP-360-1-30a.

relative to human-caused stressors, diversity of native vegetation, and presence of natural processes. This modified method allowed for a more consistent and streamlined approach when completing the required Wetlands Functional Assessment Worksheets. The temporary impact area (matting) listed on the Wetlands Functional Assessment Worksheets is approximate based on preliminary mapping and Project design and represents the greatest amount of impact likely to occur. Temporary wetland impacts will be minimized throughout the permitting and design process, and some of these wetland impact areas may decrease.

3.0 RESULTS

3.1 GENERAL SITE DESCRIPTION

The R169 Line is an existing transmission line that traverses forested, residential, and agricultural landscapes between the Dover Substation in Dover and the Three Rivers Substation in Eliot. The open transmission line is approximately 100 feet wide in most areas, with wider stretches, up to 250-feet wide, containing additional transmission lines in the areas around the Piscataqua River crossing. The ROW primarily crosses rural areas and town roads, as well as the Cocheco River and the Piscataqua River. The topography varies from flat lowlands and fields to undulating hills and steep side slopes. Elevations generally range between 0 and 90 feet above mean sea level.

The open upland natural communities consist of early successional shrub, sapling, and herbaceous species. Characteristic woody vegetation includes gray birch (*Betula populifolia*), quaking aspen (*Populus tremuloides*), red maple (*Acer rubrum*), sheep-laurel (*Kalmia angustifolia*), late lowbush blueberry (*Vaccinium angustifolium*), white meadowsweet (*Spiraea alba*), Allegheny blackberry (*Rubus allegheniensis*), American hazelnut (*Corylus americana*), red oak (*Quercus rubra*), and red raspberry (*Rubus idaeus*). Commonly observed herbaceous vegetation included little Canada mayflower (*Maianthemum canadense*), wrinkle-leaf goldenrod (*Solidago rugosa*), Canada goldenrod (*Solidago canadensis*), bracken fern (*Pteridium aquilinum*), hay-scented fern (*Dennstaedtia punctilobula*), wild strawberry (*fragaria virginiana*), bristly dewberry (*Rubus hispidus*), Kentucky blue grass (*Poa pratensis*), and other common grass and wildflower species. Non-native invasive species abundance was moderate compared to native vegetation and included rambler rose (*Rosa multiflora*), Japanese barberry (*Berberis thunbergii*), Morrow's honeysuckle (*Lonicera morrowii*), and glossy false buckthorn (*Frangula alnus*). Soils within the ROW consisted primarily of loam and silty loam.

3.2 WETLAND AND WATERCOURSE DELINEATION

The wetland and watercourse delineations were conducted on June 8 and June 9, 2023, under appropriate conditions during the growing season. A total of 23 wetlands, 9 unnamed watercourses, and the Cocheco River and Piscataqua River were delineated. In addition, one potential vernal pool was surveyed. The locations of the delineated wetlands, watercourses, and potential vernal pool are included on the attached Draft Map Set. Tables 1, 2, and 3 summarize the delineated wetlands, watercourses, and potential vernal pool, respectively. Representative site photographs are provided in Appendix A. Representative Corps Wetland Determination Forms are included in Appendix B.

Table 1. Summary of Delineated Wetlands

Wetland Resource Identifier	Wetland Classification[1]	Dominant and Characteristic Vegetation	Hydric Soil Indicators	Wetland Hydrology Indicators	Priority Resource Area (PRA)	Additional Comments
W001	PEM	Trees: None Saplings/Shrubs: None Herbs: broad-leaf cat-tail (*Typha latifolia*), lamp rush (*Juncus effusus*), cottongrass bulrush (*Scirpus cyperinus*), sensitive fern *(Onoclea sensibilis*), uptight sedge (*Carex stricta*)	F3: Depleted Matrix	A3: Saturation B9: Water-stained leaves	No	Ditch excavation around existing substation
W002	E2EM	Trees: none Saplings/Shrubs: none Herbs: saltwater cord grass (*Spartina alterniflora*), eastern grasswort (*Lilaeopsis chinesis*)	F3: Depleted Matrix	A1: Surface Water A2: High Water Table A3: Saturation	Yes - Tidal	Tidal wetland associated with Cocheco River. Rare plant species observed.
W003	PFO	Trees: Norway maple (*Acer plantanoides*) Saplings/Shrubs: speckled alder (*Alnus incana*) Herbs: sensitive fern, lamp rush	F3: Depleted Matrix	A3: Saturation B9: Water-stained leaves	Yes – within 100-feet of tidal areas	Stream S01 flows through wetland and into the Cocecho River.
W004	PSS	Trees: None Saplings/Shrubs: speckled alder Herbs: broad-leaf cat-tail, sensitive fern	F3: Depleted Matrix	A2: High Water Table A3: Saturation	Yes – within 100-feet of tidal areas	
W005	PSS/PEM	Trees: None Saplings/Shrubs: speckled alder Herbs: sensitive fern, broad-leaf cat-tail, lamp rush	F3: Depleted Matrix	A2: High Water Table A3: Saturation	No	
W006	PEM	Trees: none Saplings/Shrubs: red maple, speckled alder Herbs: sensitive fern, broad-leaf cat-tail, lamp rush, reed canary grass (*Phalaris arundinacea*), spotted touch-me-not (*Impatiens capensis*)	F3: Depleted Matrix	A3: Saturation	No	Contains potential vernal pool PVP01.
W007	PSS	Trees: none Saplings/Shrubs: speckled alder Herbs: sensitive fern, lamp rush, spotted touch-me-not, bluejoint (*Calamagrostis canadensis*), woodland horsetail (*Equisetum sylvaticum*)	F3: Depleted Matrix	A3: Saturation	No	Contains stream S02.
W008	PEM	Trees: none Saplings/Shrubs: speckled alder Herbs: broad-leaf cat-tail, sensitive fern, uptight sedge	F3: Depleted Matrix	A3: Saturation	No	Contains stream S03.
W009	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, lamp rush, spotted touch-me-not, purple loosestrife (*Lythrum salicaria*)	F3: Depleted Matrix	A3: Saturation	No	

Wetland Resource Identifier	Wetland Classification[1]	Dominant and Characteristic Vegetation	Hydric Soil Indicators	Wetland Hydrology Indicators	Priority Resource Area (PRA)	Additional Comments
W010	PEM/PSS	Trees: none Saplings/Shrubs: speckled alder Herbs: sensitive fern, lamp rush, woodland horsetail, bluejoint, reed canary grass	F3: Depleted Matrix	A3: Saturation	No	
W011	PSS	Trees: none Saplings/Shrubs: speckled alder, common winterberry (*Ilex verticilata*) Herbs: nodding sedge (*Carex gynandra*), sensitive fern, spotted touch-me-not, reed canary grass	F3: Depleted Matrix	A2: High Water Table A3: Saturation	No	Contains stream S04.
W012	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, bluejoint, lamp rush, broad-leaf cat-tail	F3: Depleted Matrix	A3: Saturation	No	
W013	PEM	Trees: none Saplings/Shrubs: alder Herbs: sensitive fern, broad-leaf cat-tail, lamp rush, skunk-cabbage (*Symplocarpus foetidus*)	F3: Depleted Matrix	A2: High Water Table A3: Saturation	No	
W014	PEM/PSS	Trees: none Saplings/Shrubs: red maple, speckled alder, common winterberry Herbs: sensitive fern, lamp rush, broad-leaf cat-tail, reed canary grass, wrinkle-leaf goldenrod	F3: Depleted Matrix	A3: Saturation B9: Water-stained leaves	No	
W015	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, bluejoint, steeplebush, wrinkle-leaf goldenrod, lamp rush	F3: Depleted Matrix	A3: Saturation	No	Portion of wetland within maintained lawn/yard area.
W016	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, lamp rush, uptight sedge, fowl manna grass (*Glyceria striata*), greater bladder sedge (*Carex intumescens*)	F3: Depleted Matrix	A3: Saturation	No	
W017	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, bluejoint, reed canary grass	F3: Depleted Matrix	A3: Saturation B9: Water-stained leaves	No	
W018	PSS/PEM	Trees: none Saplings/Shrubs: broad-leaf meadowsweet (*Spiraea latifolia*), coastal sweet pepperbush (*Clethra alnifolia*), speckled alder, common winterberry Herbs: sensitive fern, lamp rush, bluejoint, blue iris (*Iris versicolor)*	F3: Depleted Matrix	A3: Saturation	No	Portion of wetland is mowed hay field. Contains stream S05.

Wetland Resource Identifier	Wetland Classification[1]	Dominant and Characteristic Vegetation	Hydric Soil Indicators	Wetland Hydrology Indicators	Priority Resource Area (PRA)	Additional Comments
W019	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, lamp rush, broad-leaf cat-tail, necklace sedge (*Carex projecta*)	F3: Depleted Matrix	A3: Saturation	No	
W020	PEM/PSS	Trees: none Saplings/Shrubs: pussy willow (*Salix discolor*) Herbs: sensitive fern, bluejoint, reed canary grass, lamp rush, broad-leaf cat-tail	F3: Depleted Matrix	A3: Saturation	No	
W021	PEM	Trees: none Saplings/Shrubs: speckled alder Herbs: lamp rush, sensitive fern, cottongrass bulrush	F3: Depleted Matrix	A3: Saturation B10: Wetland drainage patterns	No (Maine)	Adjacent to Piscataqua River. Portions within mowed lawn/yard area.
W022	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, lamp rush, woodland horsetail, cottongrass bulrush	F3: Depleted Matrix	A3: Saturation	No (Maine	
W023	PSS/PEM	Trees: none Saplings/Shrubs: broad-leaf meadowsweet, speckled alder, common winterberry Herbs: sensitive fern, lamp rush, broad-leaf cat-tail	F3: Depleted Matrix	A3: Saturation B9: Water-stained leaves	No (Maine)	

[1] PEM = Palustrine Emergent, PSS = Palustrine Scrub-shrub, PUB = Palustrine Unconsolidated Bottom, PFO = Palustrine Forested, E2EM = Estuarine Intertidal Emergent

Table 2. Summary of Delineated Streams

Stream Identifier	Flow Type	Bankfull Width (ft)	Ordinary High Water Mark Width (ft)	Dominant Substrates	Additional notes
S01	Perennial	4-6	4-6	Sand, gravel, silt	Flows south through W03, into the Cocheco River
Cocheco River	Perennial/Tidal	200+	200+	Silt, gravel, mud	
S02	Intermittent	2-3	2-3	Silt, gravel	Flows across ROW toward Cocheco River
S03	Perennial	8	8	Cobbles, gravel, boulders	Flows across ROW toward Cocheco River
S04	Perennial	4	4	Silt, gravel	Flows through wetland W11 in residence area
S05	Intermittent	4	4	Silt, gravel	Flows from wetland W18 towards Piscataqua River
Piscataqua River	Perennial/Tidal	850+	850+	Silt, gravel, mud	
S06	Intermittent	3	3	Sand, silt, gravel	Flows across ROW toward Piscataqua River; flows under existing road through culvert
S07	Intermittent	4	4	Gravel, cobbles	Flows across ROW toward Piscataqua River; flows under existing road through culvert
S08	Intermittent	4	4	Silt, gravel, cobbles	Flows across ROW toward Piscataqua River; flows under existing road through culvert
S09	Ephemeral	4	5	Sand, gravel	Originates from culvert under existing road, likely only flows during heavy rain

Table 3. Summary of Identified Vernal Pools

VP Identifier	Estimated Hydroperiod	Indicator Species	Comments
PVP01	Semi-permanent	Unknown adult frogs observed	Potential old excavation adjacent to pipeline crossing of the transmission line ROW. Approximately 50-foot diameter and 1 to 2 feet deep with mucky substrate.

3.3 FUNCTIONAL ASSESSMENT

Table 4 summarizes the results of the wetland functional assessment. In general, wetlands within the Project area provide a variety of functions and values. Nutrient Trapping / Retention & Transformation, Sediment Trapping, and Wetland-dependent Wildlife Habitat were the most common functions along with Groundwater Recharge and Flood Storage.

Wetlands Functional Assessment Worksheets for wetlands proposed to be impacted by temporary timber matting are included in Appendix C. Potential vernal pools and streams were considered when performing the functional assessment of impacted wetlands, but since no impacts are proposed to potential vernal pools and streams, a full assessment of these features was not included in the Wetlands Functional Assessment Worksheets. The list of observed wildlife is included in Appendix D, and Table 1 above includes the observed vegetation.

Table 4. Summary of Functional Assessment

Wetland Resource Identifier	Wetland Functions and Values[1]													
	1 Ecological Integrity[2]	2 Educational Potential	3 Fish and Aquatic Life Habitat	4 Flood Storage	5 Groundwater Recharge	6 Noteworthiness	7 Nutrient Trapping / Retention & Transformation	8 Production Export	9 Scenic Quality	10 Sediment Trapping	11 Shoreline Anchoring	12 Uniqueness/ Heritage	13 Wetland-based Recreation	14 Wetland-dependent Wildlife Habitat
W001	Low			X			P	X		X				
W002	High		P	P		P	P	X		X	P	X		X
W003	Moderate			P			X	X		X	X			X
W004	Moderate			P			X	X		X	P			X
W005	Moderate			P	X		X	X		X				X
W006	Moderate				P		X	X		X				P
W007	Moderate			X	P		X	X		X	P			X
W008	Moderate			X	P		X	X		X	P			X
W009	Low				P		X	X		X				X
W010	Moderate			X	P		X	X		X				X
W011	Moderate		X	X	X		X	X		X	P			X
W012	Low				X		P	X		X				X
W013	Moderate			X	X		P	X		X				X
W014	Moderate			X	X		P	P		X				X
W015	Low				X		X	X		P				X
W016	Low				X		P	X		X				X
W017	Moderate						X	P		X				X
W018	Moderate			X	X		P	X		X				X
W019	Low						P	X		P				X
W020	Low						P	X		P				X
W021	N/A, Maine			P	X		X	X		P				X
W022	N/A, Maine				X		X	X		P				X
W023	N/A, Maine			X	P	X	X	X		P				X

X = Function observed within wetland, P = Principal Function

[1] Corps Highway Methodology Workbook Supplement

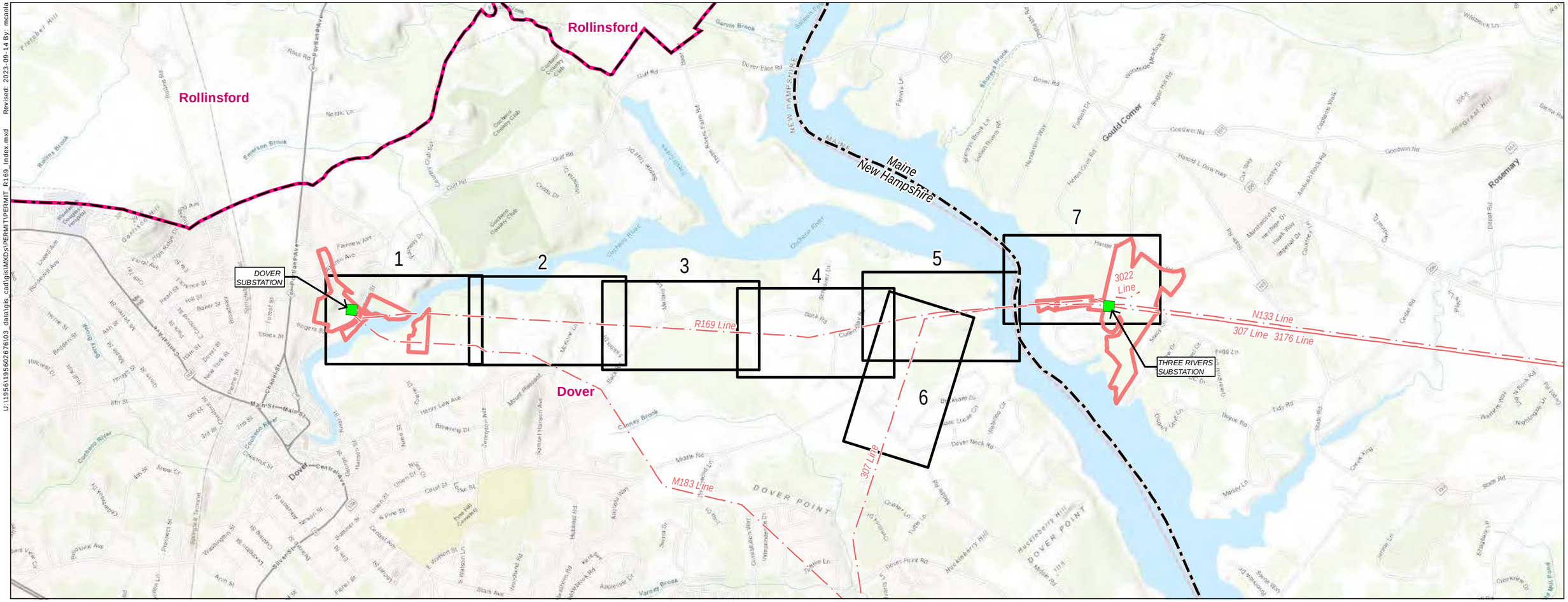
[2] Method for the Comparative Evaluation of Nontidal Wetlands in New Hampshire

FIGURES

R169 Line - Structure Replacement Project

Dover, NH and Eliot, ME
Environmental Resources Map
PERMIT Map Set
Date: September 14, 2023

U:\119561195602676\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_Index.mxd Revised: 2023-09-14 By: mcaola



Legend

Substation | Municipal Boundary | State Boundary | Map Sheet | Eversource Owned Property

N

0 2,000 4,000 Feet

PREPARED FOR:

EVERSOURCE ENERGY

107 Selden Street
Berlin, CT 06037

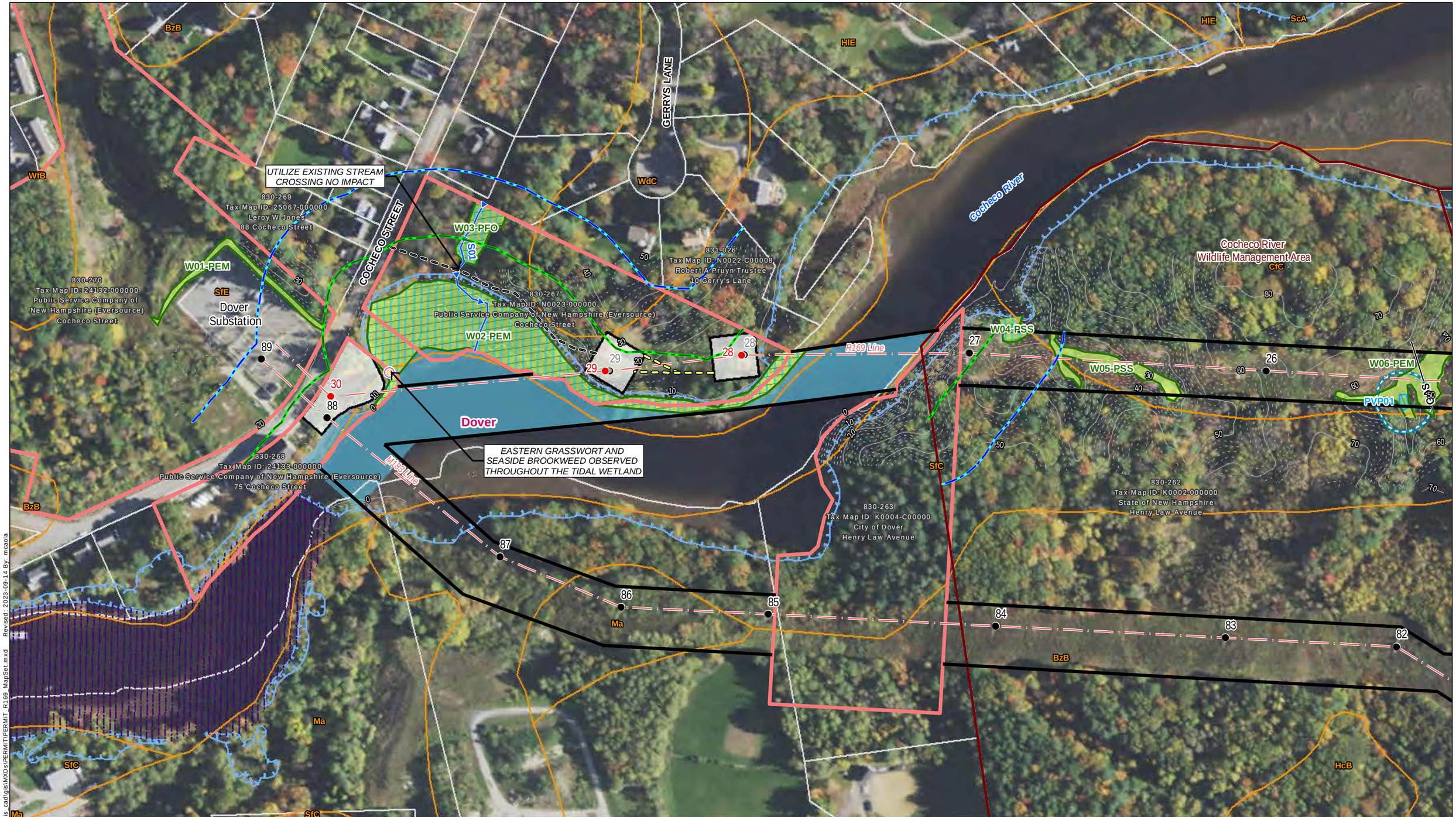
INDEX OF FIGURES

Title Sheet / Index Map
NRCS Soils Table
Map Sheets 1-7

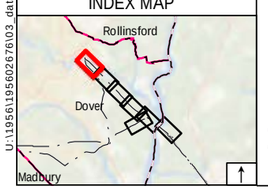
PREPARED BY:

Stantec

30 Park Drive
Topsham, ME 04086



INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 830 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine Geolibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

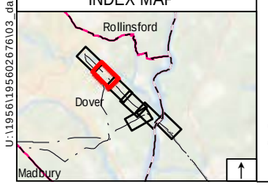
R169 Line Structure Replacement
PERMIT Map Set

Dover, NH	MAP SHEET 1 of 7
Date: September 14, 2023	Stantec

U:\19560\19560267\603_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

Dover
Cocheco River
Cocheco River Wildlife Management Area
831-022
Tax Map ID: N0018-001000
State of New Hampshire
McKone Lane
831-024
Tax Map ID: K0001-A00000
Robert Swanson
38 McKone Lane
831-025
Tax Map ID: K0001-A00001
State of New Hampshire
McKone Lane
831-023
Tax Map ID: K0001-B00000
State of New Hampshire
McKone Lane
830-262
Tax Map ID: K0002-000000
State of New Hampshire
Henry Law Avenue
831-020
Tax Map ID: N0018-006000
Daniel & Jacqueline Ayer Revocable Trusts
McKone Lane
831-019
Tax Map ID: N0018-014000
Brianna Dichter
10 Whiteley Drive
831-018
Tax Map ID: N0018-000OP1
One Home Builders II LLC
Eagan Drive
831-021
Tax Map ID: N0019-005000
Anthony P Ayer
47 McKone Lane
831-017
Tax Map ID: N0019-A00000
Elaine M Thurston
174 Back Road
WHITELEY DRIVE
EAGAN DRIVE
MCKONE LANE
FALCON DRIVE
BACKROAD
W06-PEM
PVP01
W07-PSS
W08-PEM
W09-PEM
W10-PEM
W11-PSS
SPAN STREAM NO IMPACT
CONFIGURE WORK PADS TO AVOID EXISTING STONEWALL
UTILIZE EXISTING BREACH IN STONEWALL
STONEWALL TO BE REMOVED AND REBUILT AFTER CONSTRUCTION
UTILIZE EXISTING PAVED DRIVEWAY
TEMPORARY WETLAND IMPACT: +/-742 SQ.FT.
R169 Line
M183 Line
ScA
HeD
HcC
SfC
WfB
HcB
DeA
HcD
CfC
CsD
CsB
WfC
HdD
BzB
HdC
HcB
ScB
HdB
WdB
82
81
80
79
78
8.5
25
24
23
22
21
20

INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 830 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine GeoLibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

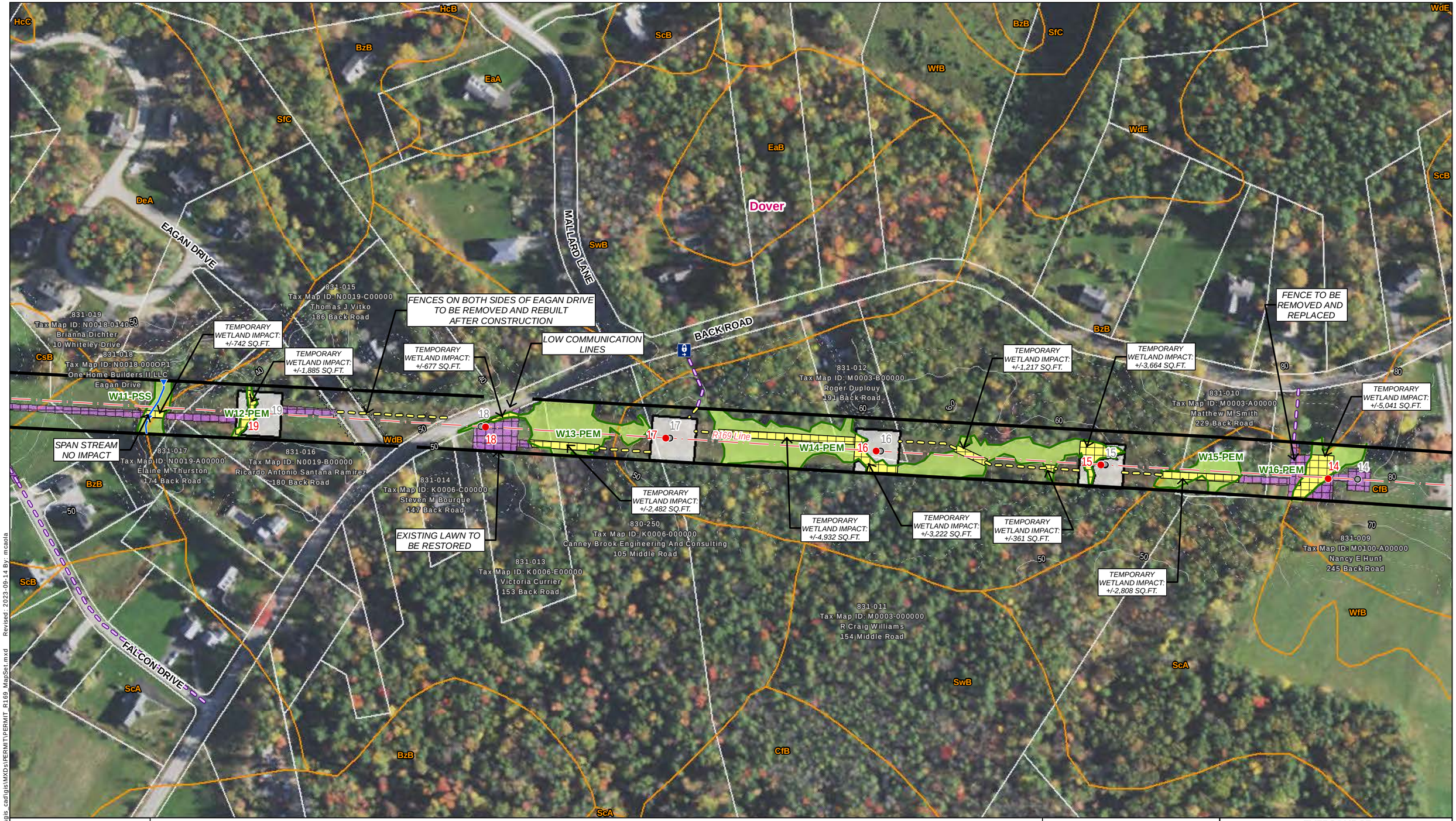
STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

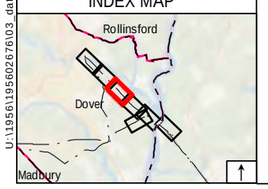
R169 Line Structure Replacement
PERMIT Map Set

Dover, NH	MAP SHEET 2 of 7
Date: September 14, 2023	Stantec

U:\119561195602676\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola



INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 830 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine Geolibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

R169 Line Structure Replacement
PERMIT Map Set

Dover, NH	MAP SHEET 3 of 7
Date: September 14, 2023	Stantec

U:\11956\11956026761\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

FENCE TO BE REMOVED AND REPLACED

TEMPORARY WETLAND IMPACT: +/-926 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-1,452 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-810 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-3,188 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-10,000 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-6,840 SQ.FT.

ACCESS FROM BACK ROAD

EXISTING LAWN TO BE RESTORED

SCHOONER DRIVE

CULLEN BAY ROAD

BACK ROAD

Dover

R169 Line

W16-PEM

W17-PEM

W18-PSS

831-008
Tax Map ID: M0100-B00000
Gregory W Hunt
295 Back Road

831-007
Tax Map ID: M0105-002000
Christopher D Berg
303 Back Road

831-004
Tax Map ID: M0093-B00000
Nancy Magiaras
362 Back Road

831-003
Tax Map ID: M0092-B00000
Cullen Bay Homeowners Association
Cullen Bay Road

831-005
Tax Map ID: M0105-000000
Eric W Thompson
321 Back Road

831-009
Tax Map ID: M0100-A00000
Nancy E Hunt
245 Back Road

831-006
Tax Map ID: M0105-001000
William C & Nancy Hunt Trustees
Back Road

831-001
Tax Map ID: M0092-A00000
Patricia Langs
Back Road

829-138
Tax Map ID: M0091-A00000
Townsquare Media Portsmouth LLC
292 Middle Road

WdE WdB BzB ScB CfB HcB WfB ScA SwB SfC HcC

INDEX MAP

Rollinsford
Dover
Madbury

Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 830 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine Geolibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

R169 Line Structure Replacement
PERMIT Map Set

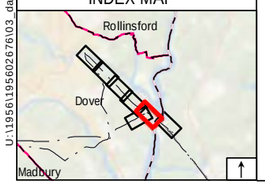
Dover, NH	MAP SHEET 4 of 7
Date: September 14, 2023	Stantec

U:\11956\19560267\6\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

SfC
HaA
WdB
SfC
WfB
SfC
DeB
CULLEN BAY ROAD
CULLEN BAY ROAD
Dover
Piscataqua River
Maine
New Hampshire
829-139
Tax Map ID: M0104-000000
Alan G. Dexter Trustee
Back River Road
831-001
Tax Map ID: M0092-A00000
Patricia Langs
Back Road
WdB
TEMPORARY WETLAND IMPACT: +/-2,022 SQ.FT.
831-002
Tax Map ID: M0092-H00000
Marie V Hebert Trustee
Cullen Bay Road
ScB
TEMPORARY WETLAND IMPACT: +/-10,000 SQ.FT.
831-003
Tax Map ID: M0092-B00000
Cullen Bay Homeowners Association
Cullen Bay Road
W18-PSS
S05
R169 Line
307 Line
SPAN STREAM AND WETLAND NO IMPACT
829-138
Tax Map ID: M0091-A00000
Townsquare Media Portsmouth LLC
292 Middle Road
TEMPORARY WETLAND IMPACT: +/-10,000 SQ.FT.
TEMPORARY WETLAND IMPACT: +/-6,840 SQ.FT.
WdA
WdE
S06
WdC
ScA
BzB
S07
WfC
Ta
EaB
WfB

U:\1956\195602676\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 330 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine Geolibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

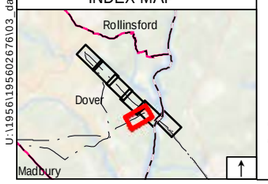
STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

R169 Line Structure Replacement
PERMIT Map Set

Dover, NH	MAP SHEET 5 of 7
Date: September 14, 2023	Stantec

INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 330 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine GeoLibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

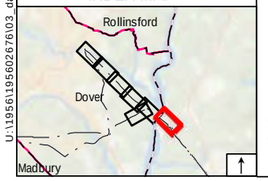
EVERSOURCE ENERGY

R169 Line Structure Replacement
PERMIT Map Set

Dover, NH	MAP SHEET 6 of 7
Date: September 14, 2023	Stantec

U:\11956\119560267\6\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 830 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- Rare Species Observation
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet

0 50 100 200 Feet

Map Notes:

Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet

Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine Geolibrary

Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

R169 Line Structure Replacement
PERMIT Map Set

Dover, NH and Eliot, ME	MAP SHEET 7 of 7
Date: September 14, 2023	Stantec

U:\11956\19560276\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

APPENDICES

Appendix A REPRESENTATIVE PHOTOGRAPHS

Photo 1. Representative view of the Cocheco River from structure 30. Stantec, June 8, 2023.

Photo 2. Representative view of the Cocheco River from Structure 29. Stantec, June 8, 2023.

Photo 3. Stream S01 flowing into Cocheco River near structure 29. Stantec, June 8, 2023.

Photo 4. Representative view of Cocheco River from structure 28. Stantec, June 8, 2023.

Photo 5. Representative view of the ROW and Wetland W05. Stantec, June 8, 2023.

Photo 6. Potential vernal pool PVP01, near structure 25. Stantec, June 8, 2023.

Photo 7. Representative view of the ROW and wetland W10 near structure 23. Stantec, June 8, 2023.

Photo 8. Representative view of the ROW and wetland W13 near structure 18. Stantec, June 8, 2023.

Photo 9. Representative view of the ROW and wetland in active pasture area near structure 14. Stantec, June 8, 2023.

Photo 10. Representative view of the ROW and open field side of wetland W18, near structure 8. Stantec, June 8, 2023.

Photo 11. Stream S05 in wetland W18 near junction of R169 and 307 line ROWs. Stantec, June 8, 2023.

Photo 12. Representative view of the ROW at the Piscataqua River, structure 5. Stantec, June 8, 2023.

Photo 13. Wetland W19 and existing access along 307 line ROW. Stantec, June 8, 2023.

Photo 14. Representative view of the ROW and wetland W21, near structure 4. Stantec, June 8, 2023.

Photo 15. Representative view of the ROW and wetland W23, near structure 3. Stantec, June 8, 2023.

Photo 16. Structure 2, near the Three Rivers Substation. Stantec, June 8, 2023.

Appendix B CORPS WETLAND DETERMINATION DATA FORMS

(Provided upon request)

Appendix C WETLANDS FUNCTIONAL ASSESSMENT WORKSHEETS

(Provided upon request)

Appendix D OBSERVED WILDLIFE

Common Name	Species Name
American crow	*Corvus brachyrhynchos*
Osprey	*Pandion haliaetus*
Eastern chipmunk	*Tamias striatus*
Red-tailed hawk	*Buteo jamaicensis*
White-tailed deer	*Odocoileus virginianus*
Wild turkey	*Meleagris gallopavo*

R169 Structure Replacement Project
Dover, New Hampshire

Conditional Use Permit Application

Part 5 of 5

December 22, 2023

Prepared for:

Public Service Company of New Hampshire d/b/a Eversource Energy
13 Legends Drive
Hooksett, NH 03106

Prepared by:

Stantec Consulting Services Inc.
30 Park Drive
Topsham, ME 04086

City of Dover, New Hampshire
CONDITIONAL USE PERMIT APPLICATION

[Revision Date: October 19, 2020]

Office Use Only	Project #:		Date Received:	
	Amount Paid:		Time Received:	

APPLICANT AND OWNER INFORMATION

Name of Applicant: Public Service Company of NH d/b/a Eversource Energy Telephone # 603-634-2243

Address of Applicant: 13 Legends Drive, Hooksett, NH 03106

E-Mail Address: Travis.Yandow@Eversource.com

Name of Property Owner (if different from applicant): same as above Telephone # same as above

Address of Property Owner: same as above

PROPERTY INFORMATION

Assessor's Map # B31-003 Lot(s) # Multiple

Address of Property: Existing R169 transmission line ROW--Cullen Bay Road to Back River Road

Zoning District(s) R-40, R-12, CWD Overlay District(s) Wetland Protection

Rural Residential, Medium Density, Residential, Urban Density Multi Residential, Cocheco Waterfront District

Existing Use of Property: Electric transmission line ROW

CONDITIONAL USE PERMIT INFORMATION

Type of Conditional Use Permit (Check All That Apply):

☐ Conservation District	☐ RCM Use Overlay District	☐ Gateway District
☐ Groundwater Protection	☐ Off-Street Parking and Loading	☐ Alternative Treatment Center
☒ Wetland Protection District	☐ Central Business District	☐ Heritage Residential District

Describe Proposed Use or Activity That Requires Conditional Use Permit and Describe Any Impacts:

Impact Area 5/Sheet 5: Eversource is proposing to replace one structure (structure 6) along their existing R169 utility transmission line in Dover as it traverses southeast at Cullen Bay Rd and continues southeasterly to the Piscataqua River. This wooden structure requires replacement due to age, cracking, leaning, and/or woodpecker damage. The existing structure will be replaced with new weathering steel structure to provide a more reliable electrical infrastructure. The new structure requires construction of a work pad and access roads. In wetland areas timber matting is used to temporary work over these sensitive resources. In Area 5, as a result of the large wetland (W18-PSS) around proposed structure 6, matting will be utilized to minimize access impacts within the ROW. The structure 6 work pad is also entirely within the delineated wetland and will be completely matted. The only impacts in this area are within the Wetland Protection District. In the wetland areas, 29,676 square feet of temporary impact is proposed as a result of work pad and access road matting across a the large wetland (W18-PSS) at structure 6. Approximately 942 square feet of temporary impact is proposed in the wetland buffer areas as a result of the upland matting needed to protect farmland. When needed, these areas will require pre-construction erosion/ sediment control BMPs and monitoring throughout for effectiveness. See attached application narrative and supporting documents for more details.

List Any Associated State or Federal Permits That Have Been or Will Be Applied For and Indicate Their Status: NHDES: Alteration of Terrain; Wetlands Utility Statutory Permit by Notification; Shoreland Permit by Notification; USACE Pre-application Construction Notification; USACE Section 408 Variance to Fed. Navigation Project.

Name of Professional That Prepared Plans: Tom Tetreau, NH Certified Wetland Scientist

Address 30 Park Drive, Topsham, ME 04086 Telephone #: 207-504-7231

Professional License #: 283 E-mail address: tom.tetreau@stantec.com

SIGNATURES

I/We hereby submit this application to the City of Dover Planning Board and attest that to the best of my knowledge all of the information on this application form and in the accompanying application materials and documentation is true and accurate. As applicant or as agent, I attest that I am duly authorized to act in this capacity.

Signature of Property Owner: _____ Date: 12/20/2023

Signature of Applicant (if different from owner): _____ Date: _____

Signature of Agent: _____ Date: 12/20/2023

AUTHORIZATION TO ENTER SUBJECT PROPERTY

I, and my successors, hereby authorize members of the Dover Planning Board, Planning Department and other pertinent City Departments and boards to enter my property for the purpose of evaluating this application, including performing inspections during the application phase, post-approval phase, construction phase and occupancy phase. It is understood that these individuals must use all reasonable care, courtesy, and diligence when on the property.

Signature of Property Owner: _____ Date: 12/20/2023

CITY OF DOVER CONDITIONAL USE
LIST OF ABUTTERS

Pursuant to RSA 676:4, the State Law of New Hampshire, the City of Dover is required to notify the applicant, abutters (including holders of conservation easements), and any professional whose seal is on the plan, of the public hearing by certified mail, return receipt requested. Staff will provide the abutter information, while the applicant must provide accurate contact information for the owner, applicant and professional agents representing the project.

Owner:

TAX MAP	LOT #	PROPERTY OWNER	MAILING ADDRESS
Multiple		Kurt Nelson, Eversource Energy	13 Legends Drive, Hooksett, NH 03106

Applicant (if different from owner):

APPLICANT NAME	APPLICANT COMPANY	MAILING ADDRESS

Surveyor and/or Engineer/Professional Agent:

NAME	COMPANY	MAILING ADDRESS
Tom Tetreau, NH Certified Wetland Scientist	Stantec	30 Park Drive, Topsham, ME 04086

Conservation Easement Holder:

TAX MAP	LOT #	NAME OF EASEMENT HOLDER	MAILING ADDRESS

Stantec Consulting Services Inc.
30 Park Drive, Topsham ME 04086-1737

December 22, 2023

Project/File: 195602676

Attention: Donna Benton
Planning Director
288 Central Avenue
Dover, NH 03820
d.benton@dover.nh.gov

Reference: Conditional Use Permit Application, Eversource Energy, R169 Structure Replacement Project, Dover, New Hampshire

Dear Ms. Benton and Planning Board Members,

On behalf of the Public Service of New Hampshire d/b/a Eversource Energy (Eversource), Stantec Consulting Services Inc. is filing five Conditional Use Permit (CUP) applications for necessary structure replacements as part of the R169 Structure Replacement Project (Project) in the City of Dover. Eversource has identified 18 existing structures along the existing R169 transmission line right-of-way (ROW) in Dover that require replacement due to deterioration from age, cracking, leaning, rot, and/or woodpecker damage.

Portions of the proposed Project are located within the Conservation District and the Wetlands Protection District, as described in the Dover Zoning Ordinance, Articles 170-27 and 170-27.1, respectively. CUPs may be granted within utility ROWs in the Conservation District in accordance with Article 170-27 Section C (1), and in the Wetlands Protection District in accordance with Article 170-27.1 Section F (1):

> "Article 170-27 Section C (1): *Conditional Use Permits may be granted by the PLANNING BOARD for the following uses within the* ***Conservation District****: (1) STREETs, roads and other access ways and utility rights-of-way, communications equipment, easements, including power lines and pipe lines, if essential to the productive use of land not so zoned and if so located and constructed as to minimize any detrimental impact of such uses upon the wetlands or other environmentally sensitive areas, where it is physically impossible to locate such ways over land not so zoned."*
>
> "Article 170-27.1 Section F (1): *Conditional use approval may be granted by the PLANNING BOARD (RSA 674:21II) after proper public notice and public hearing, for construction within the* ***Wetland Protection District*** *or buffer. Said construction may include but is not limited to, a road or other accessway, utility right-of-way, communication lines, power lines and pipelines, STRUCTUREs, and parking LOTs provided that the proposed construction complies with the following standards [emphasis added.]*

Therefore, Eversource is requesting the CUPs for activities and temporary impacts to wetland buffer areas within the Conservation District and the Wetlands Protection District and has outlined compliance with City of Dover zoning standards in the attached project narrative, which is being submitted in accordance with Articles 170-27 and 170-27.1 of the zoning ordinance. These five CUP applications (one per project map sheet) are being submitted, in total, for approximately 19,734 square feet (0.45 acres) of temporary tidal

Reference: Conditional Use Permit Application, Eversource Energy, R169 Structure Replacement Project

buffer resource impacts (to be restored) and 1,515 square feet (0.03 acres) of temporary stream buffer resource impacts (timber matting) in the Conservation District. In the Wetland Protection District, the following impacts are anticipated: approximately 56,885 square feet (1.31 acres) of temporary wetland impacts (matting), 26,838 square feet (0.62 acres) of temporary impacts within wetland buffers (matting), and 29,941 square feet (0.69 acres) of permanent impacts within upland wetland buffer areas for gravel access road and work pad construction.

The proposed work is for direct “in-kind” replacements of cracked and damaged poles, and no new pole locations are proposed within the R169 ROW in Dover. New structures will be in the same general footprint as existing and do not represent a significant footprint expansion within the Conservation District and the Wetlands Protection District or consist of substantial disturbances beyond those historically created by the transmission line. Disturbed areas will be protected with erosion and sediment control measures, and strategies will be implemented to stabilize and allow for re-vegetation of exposed soils.

This submittal includes a digital copy of each of the five CUP application packages. The filing fee of $1,000 ($200 per application x 5 CUP applications [one per project map sheet]) is included in the online submittal with this application. We understand that the City of Dover will calculate and invoice for abutter and notice fees; therefore, we have assumed these fees will be paid at a later date and have not included them with this application.

Additional state and federal wetland and shoreland permit applications are being prepared and submitted for the Project. Permit approvals will be forwarded to the City of Dover as required and/or requested.

Sincerely,

STANTEC CONSULTING SERVICES INC.

Jess S. Hunt
Senior Associate, Environmental Services
Phone: (603) 557-4662
jessica.hunt@stantec.com

Andrew Ackerman
Senior Environmental Scientist, Environmental Services
Phone: (603-413-7731
andrew.ackerman@stantec.com

Attachment: Conditional Use Permit Applications

cc. Travis Yandow and Kurt Nelson, Eversource

Conditional Use Permit Application

R169 Structure Replacement Project
Dover, New Hampshire

December 22, 2023

Prepared for:

Public Service Company of New Hampshire d/b/a Eversource Energy
13 Legends Drive
Hooksett, NH 03106

Prepared by:

Stantec Consulting Services Inc.
30 Park Drive
Topsham, ME 04086

Table of Contents

1.0 PROJECT INTRODUCTION AND PURPOSE 1

2.0 EXISTING CONDITONS 2

3.0 PROJECT DESCRIPTION AND PROPOSED CONDITIONS 3
3.1 LINE REBUILD: STRUCTURE REPLACEMENT, CONDUCTOR AND OPGW REPLACEMENT 3
3.2 ACCESS 4
3.2.1 Road Construction 4
3.2.2 Wetland and Upland Temporary Matting 4
3.2.3 Work Pad Construction 5
3.3 CONSTRUCTION SEQUENCE 5
3.4 BEST MANAGEMENT PRACTICES 6
3.4.1 Erosion and Sedimentation Control 6
3.4.2 Invasive Species Control Plan 6
3.4.3 Construction Observation and Post Construction Monitoring 6

4.0 OVERLAY ZONING DISTRICT IMPACTS AND ACTIVITIES 7
4.1 WETLAND PROTECTION DISTRICT 8
4.2 CONSERVATION DISTRICT 11
4.3 IMPACT AREAS 13
4.3.1 Impact Area 1 13
4.3.2 Impact Area 2 14
4.3.3 Impact Area 3 14
4.3.4 Impact Area 4 14
4.3.5 Impact Area 5 14

LIST OF FIGURES

Figure 1 USGS Site Location

R169 – Dover CUP Permit Map Set, Dover, NH

LIST OF APPENDICES

APPENDIX A WETLAND DELINEATION REPORT

1.0 PROJECT INTRODUCTION AND PURPOSE

Public Service Company of New Hampshire d/b/a Eversource Energy (Eversource) owns and maintains the R169 electrical transmission line that passes through Dover, New Hampshire. Eversource has identified 19 existing wooden structures that need to be replaced on the R169 line (18 in Dover, New Hampshire, and 1 in Eliot, Maine) due to age, cracking, leaning, rot, and/or woodpecker damage, which constitutes the proposed R169 Structure Replacement Project (Project). The existing wooden structures will be replaced with new, steel structures that adhere to current safety and electrical codes to provide more reliable electrical infrastructure.

The R169 Line right-of-way (ROW) begins at the Three Rivers Substation in Eliot adjacent to the Piscataqua River and traverses westerly over the river into Dover, then continues westerly through Dover approximately 3 miles for the remainder of the length of the transmission line to the Dover Substation.

Chapter 170 of the local Zoning Ordinance of the City of Dover, New Hampshire, establishes regulations and guides appropriate use of land. The existing utility ROW and proposed structure replacement activities in Dover bisect various city zoning districts, including the Rural Residential (R-40), Medium Density Residential (R-12), and Urban Density Multi Residential (RM-U) zoning districts and the Cocheco Waterfront District (CWD). The ROW and proposed Project activities also intersect two natural resource protection overlay districts—the Conservation District (per Article 170-27) and the Wetland Protection District (per Article 170-27.1). The purpose of these two overlay districts is to avoid and minimize development impacts to, and similarly conserve, local rivers, streams, wetlands, and flood-prone or steep, erosion-prone areas of Dover. The Project has taken into consideration each the objectives of these overlay districts in the development of construction plans and activities around the identified sensitive resources.

The proposed Project activities require a Conditional Use Permit (CUP) from the City of Dover (hereafter, City) Planning Board for those activities that occur within the Conservation District and the Wetland Protection District per the City's Local Zoning Ordinance (as amended, September 2022) and subsequent guidance from the City Planning and Community Development Department. This CUP application presents the applicable information associated with the Project. In addition to the 18 proposed replacement structures in Dover, Eversource previously identified five utility structures for replacement along the R169 line. A CUP application (#406-22) for the replacement of those five structures was submitted to the City in July 2022 and approved by the Planning Board on July 21, 2022. Replacement of those five structures has been completed.

In accordance with NH RSA 482-A:3 XV, routine utility maintenance work is exempt from the standard NH wetland permit process. However, Eversource is required to submit a Utility Maintenance Activity Statutory Permit-by-Notification, Shoreland Permit-by-Notification, and Alteration of Terrain permit application to the New Hampshire Department of Environmental Services (NHDES) to cover the temporary wetland impact associated with use of timber matting within wetlands required to

complete the proposed structure replacement work, impacts within the developed portions of the Protected Shoreland of the Cocheco River, and proposed upland ground disturbance.

2.0 EXISTING CONDITONS

The existing cleared R169 ROW varies from approximately 100 feet (ft) in most areas to 250 ft wide where the ROW is shared with additional transmission lines near the Piscataqua River. The Project ROW consists of Eversource fee-owned property or Eversource-controlled easements. From the Piscataqua River to the Dover Substation, the ROW traverses westerly through forested, residential, and agricultural landscapes. The ROW primarily crosses rural areas and local roads, as well as the Cocheco River and the Piscataqua River. The topography varies from flat lowlands and fields to undulating hills and steep side slopes. Elevations range from 0 to 90 ft above mean sea level. Soils within the ROW consist primarily of loam and silty loam (see attached CUP plans).

The open upland natural communities in the ROW consist of early successional shrub, sapling, and herbaceous species. Characteristic woody vegetation includes gray birch (*Betula populifolia*), quaking aspen (*Populus tremuloides*), red maple (*Acer rubrum*), sheep-laurel (*Kalmia angustifolia*), late lowbush blueberry (*Vaccinium angustifolium*), white meadowsweet (*Spiraea alba*), Allegheny blackberry (*Rubus allegheniensis*), American hazelnut (*Corylus americana*), red oak (*Quercus rubra*), and red raspberry (*Rubus idaeus*). Commonly observed herbaceous vegetation in the ROW includes little Canada mayflower (*Maianthemum canadense*), wrinkle-leaf goldenrod (*Solidago rugosa*), Canada goldenrod (*Solidago canadensis*), bracken fern (*Pteridium aquilinum*), hay-scented fern (*Dennstaedtia punctilobula*), wild strawberry (*Fragaria virginiana*), bristly dewberry (*Rubus hispidus*), Kentucky blue grass (*Poa pratensis*), and other common grass and wildflower species. Non-native invasive species such as rambler rose (*Rosa multiflora*), Japanese barberry (*Berberis thunbergii*), Morrow's honeysuckle (*Lonicera morrowii*), and glossy false buckthorn (*Frangula alnus*) are present in moderate abundance.

Stantec consulted with the New Hampshire Natural Heritage Bureau, the New Hampshire Fish and Game Department, and the US Fish and Wildlife Service as required for NHDES and US Army Corps of Engineers (USACE) permitting. There were three state-listed wildlife species, three state-listed plant species, and three federally listed wildlife species noted in the vicinity of the Project. Eversource proposes to follow agency recommendations and permit conditions as part of this Project and will conduct recommended surveys as needed.

One potential vernal pool and 23 wetlands were identified within the ROW during a delineation conducted by Stantec (Tom Tetreau, New Hampshire Certified Wetland Scientist #283) in June 2023; results of the wetland survey can be found in Appendix A.

The 307 transmission line ROW intersects the R169 ROW from the south near proposed structure 6 to the Piscataqua River; the nearby 307 line ROW will be utilized for access only. Existing access roads traverse portions of both ROWs. These access roads are unpaved with mostly a loamy sand base with occasional stretches consisting of previously installed stone. The access roads are generally 8 to 12 ft wide in most areas.

Routine vegetation maintenance is performed along the R169 ROW on an approximate 4- to 5-year cycle. The last vegetation maintenance was performed along portions of the R169 ROW in summer 2023. Trees and shrubs capable of growing to heights that could interfere with conductors are trimmed and allowed to regenerate until the next maintenance cycle. Prior to the start of construction, areas around proposed access roads and pads will need additional mowing within the ROW.

3.0 PROJECT DESCRIPTION AND PROPOSED CONDITIONS

3.1 LINE REBUILD: STRUCTURE REPLACEMENT, CONDUCTOR AND OPGW REPLACEMENT

The proposed Project includes replacement of 18 existing wooden transmission line structures along the R169 line in Dover. The replacement (new) structures will be within 10 ft of the previous structure location, with two exceptions: proposed structure 13 will be approximately 140 ft from the existing structure location to avoid wetland and impacts, and proposed structure 20 will be approximately 40 ft from the existing location. A majority of the new structures will be approximately 5 to 10 ft taller than the previous structures to comply with current electrical standards. The one structure proposed for a reduction in height is structure 27, within the shoreland of the Cocheco River, which will be reduced from the current 135 ft to 120 ft. The shorter structure allows for a reduced construction footprint and minimizes potential impacts to the sensitive shoreland area.

The structure replacement process consists of drilling holes near the existing structures and installing a caisson, also referred to as a can, below the ground surface. The new structure is installed in the can and backfilled with clean, suitable rock or gravel material. Spoils produced from drilling the hole will be disposed of in an approved upland location away from wetland areas and will be stabilized with an appropriate conservation/contractor's seed mix and weed-free straw mulch. Some replacement structures may require anchors. Anchors will be installed by excavating trenches, installing concrete block anchors, and backfilling trenches. If soil conditions allow, screw anchors may be installed to minimize ground disturbance. Temporary swamp mats (i.e., matting) will be utilized to access structures located within delineated wetlands or wetland areas that must be crossed for access. Mats will also be used on some occasions to minimize impacts to maintained yards or farmed upland areas. Once the new structure is installed and stable, the wires from the old structure will be transferred to the new structure. Old structures will be cut and removed from the ground in upland locations. To minimize ground disturbance, old structures in wetlands are typically cut flush with the ground surface. In some cases, the bottom of the old structure may be able to be pulled from the wetland with minimal disturbance to the wetland. All construction materials and old structure pieces will be removed and disposed of off-site at an approved disposal facility.

Following completion of the structure replacement and wire work, temporary timber construction mats will be removed. Disturbed wetland areas will be restored and stabilized with weed-free straw mulch. Temporarily disturbed upland areas will also be restored and stabilized through seeding and mulching. Permanently disturbed wetland buffer areas will remain as permanent features. Seed and mulch will be

applied along the shoulders and side slopes of the access roads as necessary and the established access roads will be left in place, with the exception of the area around proposed structures 27 and 28, which will be entirely restored. The work pads and new access road between proposed structures 27 and 28 will be re-contoured to the existing grade, covered with topsoil that was stockpiled during the initial grading, and stabilized with seed and mulch.

Minor tree clearing is proposed as maintenance within the existing access road off Cocheco Street and within the existing ROW near proposed structures 27 and 28 as part of the Project. The Project will submit a Protected Shoreland Permit by Notification to address proposed selectively cut trees in the upland shoreland areas.

3.2 ACCESS

The proposed Project utilizes existing access roads within the R169 line ROW and existing access within the 307 line ROW wherever possible. The majority of the existing access roads are made up of dirt or gravel areas and are proposed to be improved, as necessary, through the addition of clean stone as part of the Project to allow for construction vehicle access. Proposed access roads are shown on the attached map set. Access road entrances are located off local roadways and utilize existing entrances wherever possible. Driveways permits are not anticipated to be required from the City. There are no state-owned roads in the project area; therefore, temporary driveway permits from the New Hampshire Department of Transportation will not be required for construction. The proposed access roads were sited to minimize ground disturbance and temporary wetland impacts to the greatest extent practicable while providing safe and efficient access to the existing structures. Timber matting will be used to cross all wetland and stream resources that cannot be avoided completely.

3.2.1 Road Construction

Proposed upland access road improvements include construction of approximately 12- to 16-ft-wide gravel and stone roads within the ROW and in some cases adjacent to the ROW. The roads will provide access to existing utility structures for replacement activities. The improved access roads will provide reliable, permanent access to utility infrastructure during future maintenance or emergency repairs. Where possible, the proposed access roads will be located on top of existing dirt roads or trails. If no existing routes are available or suitable, a new road will be constructed. Minor grading may be necessary to remove large boulders and create a flat surface for the new rock or gravel.

Project plans require tree removal along the widening the existing access road off Cocheco Street to proposed structures 27 and 28 to a width of 12 ft to accommodate equipment for the structure replacements. Tree removal at this location will occur within the existing utility ROW and along the existing access road on Eversource property and will be conducted between November 1 and April 14 to avoid potential impacts to federally listed wildlife species if present.

3.2.2 Wetland and Upland Temporary Matting

Access through maintained fields and private property within uplands and delineated wetlands in the Project area will utilize temporary timber construction mats to minimize ground disturbance and prevent

rutting. Where necessary in overly saturated conditions, runners (mats placed parallel to the direction of travel) will be placed on the wetland surface prior to setting the top, perpendicular layer of mats. This will help reduce settling and overall wetland disturbance.

3.2.3 Work Pad Construction

The proposed Project includes construction of 18 structure replacement work pads approximately 100 ft by 100 ft each, with some exceptions. With the exception of work pads located within wetlands, upland work pads will be constructed using clean stone. The work pads will be top dressed with compacted 1.5- to 3-inch-diameter clean stone. After the structure replacement work is complete, restoration of upland work pads will consist of utilizing stockpiled topsoil to reduce work pads to approximately 30 ft by 60 ft. Restored areas will be stabilized with seed and mulch. Proposed work pads located in wetland areas will be constructed using temporary timber construction mats and will be removed upon completion of the work.

3.3 CONSTRUCTION SEQUENCE

The general Project construction sequence will be:

1. Installation of appropriate signage along public roads near construction entrances;
2. Installation of erosion control devices, as needed;
    a. Erosion control practices will follow the *Best Management Practices Manual for Utility Maintenance in and Adjacent to Wetland and Waterbodies in New Hampshire* (Utility BMP Manual) published by the New Hampshire Department of Natural and Cultural Resources (March 2019).
3. Placement of construction mats in wetlands for access roads and work pads;
4. Grading and improvements of upland access roads and work pads;
5. Stabilization (seed and mulch) of exposed soils on created side slopes;
6. Replacement of structures:
    a. Drill new structure holes;
    b. Install new poles and structure components;
    c. Transfer electrical lines from old structure to new structure; and
    d. Remove and haul away old structure.
7. Clean up excess/stockpiled material at work pads;
8. Smoothing/grading upland work pads and stabilizing and restoring with seed and mulch as necessary;
9. Removing construction mats from wetland areas and stabilizing/restoring disturbed wetland areas with weed-free straw mulch; and

10. Stabilization, restoration, and clean up staging areas and entrance points.

Provided necessary permits are in place and to the extent possible, work would begin in April 2024 and continue through fall 2024. Entrances, access roads, and work pads will be created prior to structure replacement work. New structure holes will likely be drilled prior to mobilization of structure replacement equipment (cranes, bucket trucks). Installing new poles and transferring wires will be completed prior to moving on to the next structure. Multiple structure replacement crews may be working in different areas to expedite the process. Removal of mats and restoration will occur as individual work areas are completed.

3.4 BEST MANAGEMENT PRACTICES

3.4.1 Erosion and Sedimentation Control

Work will be conducted in accordance with the Utility BMP Manual. Following these BMPs will minimize and avoid impacts to wetland and stream resources and the surrounding upland areas to the greatest extent practicable.

Perimeter erosion controls consisting of silt fence, straw wattles, mulch, and straw bales will be installed as necessary around the work areas to minimize potential impacts to adjacent resource areas. Water bars, also known as diversion ditches, will be installed along access roads with steep slopes, where necessary, to prevent water from traveling long distances down the road causing erosion. Water bars will direct water off the road into adjacent upland areas. Exposed soil created during construction will be stabilized with seed and mulch as soon as possible after active work in the area is complete. No equipment or material will be stored within wetland areas.

3.4.2 Invasive Species Control Plan

Due to the developed landscape surrounding the majority of the R169 line, invasive plant species occur within the ROW and were observed during field surveys. Contractors will follow the invasive species recommendations in the Utility BMP Manual to help prevent the spread of invasive species, including inspection and cleaning of equipment and contractor training. Equipment, including construction mats, brought to the Project area will be inspected by the contractor and/or environmental monitor, and if plant material or soil is present, the equipment will be cleaned and dried prior to use on the Project. Contractors will be familiar with identification of common invasive species and will be required to clean mats and equipment prior to their use elsewhere. If possible and without increasing wetland impacts, the contractors may also make slight shifts in access roads or work pads to avoid invasive species locations.

3.4.3 Construction Observation and Post Construction Monitoring

During construction, Eversource will contract an environmental monitor to perform routine construction observation visits. The environmental monitor will inspect the Project area for compliance with the Utility BMP Manual and applicable Project permits and conditions. Construction observation visits will occur at least once per week and/or after a significant rainfall (0.5 inches or greater) or snow melt event. Under the National Pollutant Discharge Elimination System, Eversource will file a Notice of Intent and

Stormwater Pollution Prevention Plan (SWPPP) under the U.S. Environmental Protection Agency's Construction General Permit. Construction observation visits and associated reporting will follow the SWPPP and Construction General Permit guidelines and be performed by a qualified individual familiar with the SWPPP, Utility BMP Manual, and Project specific permit conditions.

A series of post-construction monitoring visits in the Project area will be performed by a qualified environmental scientist to document that disturbed areas are properly stabilized and vegetation is beginning to regrow. Site restoration will be considered successful when there is at least 85% cover by native or non-invasive herbaceous plant species within the restored portions of the ROW, including restored wetland areas. This does not include gravel work pads or access roads that existed prior to construction or were created during construction, with the exception of the gravel work pads and road for proposed structures 27 and 28, which will be restored to natural grade, topsoil spread, and stabilized with seed and mulch. The environmental scientist will prepare a report following each post-construction monitoring visit that includes representative photographs and corrective actions (if applicable). Once the disturbed uplands and temporarily impacted wetlands within the Project area are determined to be permanently stabilized, post-construction monitoring will be considered complete, and a Notice of Termination will be filed under the U.S. Environmental Protection Agency's Construction General Permit.

4.0 OVERLAY ZONING DISTRICT IMPACTS AND ACTIVITIES

The ROW and proposed Project activities intersect natural resource protection overlay districts in Dover, including the Conservation District and the Wetland Protection District. The following summarizes the Project-specific components in the respective overlay districts.

Proposed temporary impacts to wetlands were minimized to the maximum extent practical during project planning. This included modifications to ROW access, reducing the size and positioning of the proposed utility poles, the utilization of timber matting and/or tracked equipment, and the location and orientation of work pads. Timber matting will be installed to completely span streams, where necessary, to avoid impacts to the stream bed and banks.

For the purposes of this CUP, resource impacts have been divided into 5 Impact Areas and corresponding map sheets, as shown per wetland and stream in the attached map set and in Table 1. Given the overlapping overlay districts and associated buffers, impacts were quantified in Table 1 below by direct resource impact and overlay district buffer impacts. The district buffers were established by taking the farthest buffer (such as when a stream channel is encompassed by a surrounding wetland, the larger Conservation District buffer was used).

Table 1: City of Dover Proposed Wetland Protection and Conservation District Impacts

District	Resource Impacts (SF)	Impact Area 1 (Map Sheet 1)	Impact Area 2 (Map Sheet 2)	Impact Area 3 (Map Sheet 3)	Impact Area 4 (Map Sheet 4)	Impact Area 5 (Map Sheet 5)
Wetland Protection District	Temporary Wetland Impact	-	742	23,279	3,188	29,676
	Temporary Wetland Buffer Impact	5,526	1,802	16,716	1,852	942
	Permanent Wetl and Buffer Impact*	-	-	29,941	-	-
Conservation District	Temporary Area Subject to Tidal Action Buffer Impact	19,734	-	-	-	-
	Temporary Stream Resource Buffer Impact	-	1,515	-	-	-
Overlapping Districts		5,526	773	-	-	-
	Total	**25,260**	**4,059**	**69,936**	**5,040**	**30,618**

*Based on 12-ft disturbance area for new gravel access
Overlapping Districts are illustrative of how much districts overlap and not part of total for each Map Sheet.

4.1 WETLAND PROTECTION DISTRICT

The Wetland Protection District includes all areas of wetlands and 50-ft wetland buffers, as defined in Dover Zoning Ordinance, Article 170-27.1. Project activities subject to a CUP that are within the Wetland Protection District are limited to temporary placement of timber mats in wetlands and at stream crossings and the creation of stone work pads and access road improvements in wetland buffer areas. New structures will be placed in the same general location as the existing structures, as described in section 3.1 above. The proposed access roads were sited along existing roads or trails wherever possible.

The Project will meet the following Wetland Protection District standards for Conditional Use Approval, as outlined in the Dover Zoning Ordinance, Article 170-27.1F(1).

(a) *Practicable Alternative: There is no practicable alternative that would have a less adverse impact on the area.*

The Project site is an existing transmission line within a utility ROW. The proposed structure replacement work is necessary to maintain reliability and safe operation of the existing R169 line. Alternative locations would require creation of a new ROW, and increased impacts to resources and the surrounding landscape and were not considered. The replacement structures must be located on the alignment of the existing transmission line and must be located within the existing ROW. The Project has been designed to reduce the footprint of the construction as much as

possible. For example, the proposed access route between structures 14 and 15 was designed to utilize a narrow upland area on the south side of the ROW to minimize wetland impacts as much as possible while maintaining required clearances for working equipment from overhead wires and adjacent tree lines. For example, in addition to reducing the height and footprint of proposed structure 27 near the Cocheco River, the Project proposes to move access roads to uplands where possible, completely restore impacted areas adjacent to the Cocheco River, smooth/grade upland work pads, and stabilize and restore with seed and mulch as necessary.

Upland work pads, other than those near the Cocheco River, are typically restored to an approximately 30-ft by 60-ft size. Topsoil pushed to the sides during the initial construction will be used to cover the work pads. Exposed soils will be stabilized with seed and mulch. Temporary construction mats will be removed from wetland areas as soon as work is complete and wetland areas will be stabilized/restored with weed-free straw mulch, if necessary. Matting will be removed in a similar manner to how it was installed.

(b) *Avoidance: The potential impacts have been avoided to the maximum extent practicable. The APPLICANT will demonstrate by plan and example that the proposed construction represents the least impacting alternative.*

The proposed structure replacements have been designed to avoid permanent fill and loss of wetland and stream areas by utilizing upland areas as much as possible and using temporary construction mats. The mats will result in minimal temporary disturbance of the shrub and herbaceous vegetation underneath, but the vegetation is expected to quickly recover following removal of the construction mats after construction is complete. Mats will be used to span streams and will not disturb streambanks or modify hydrology.

Wetlands will be protected from stormwater runoff through erosion and sedimentation control measures, and exposed soils will be stabilized in accordance with the measures discussed in Section 3.4.1. Additionally, appropriate siltation prevention measures will be implemented and inspected during construction and post-construction to prevent erosion, siltation, and turbidity. The erosion control methods and materials will follow the Utility BMP Manual. Perimeter controls (silt fence, straw bales, straw wattles, etc.) will be installed along the limits of work to protect adjacent resources and off-site area. If necessary, other BMPs including stone check dams and dewatering basins will be used to control and treat stormwater and prevent runoff to abutting or downslope properties.

The tidal wetland, wetland W02 associated with the Cocheco River, will be completely avoided by construction activities. Work will occur within the adjacent upland only, and erosion and sedimentation controls will be installed prior to ground disturbance to protect the wetland and river.

(c) *Minimization: Any unavoidable impacts have been minimized. No reasonable Alternative to the proposed construction exists which does not impact a wetland or which has less detrimental impact on a wetland. Design, construction and maintenance methods will be*

prepared by a registered engineer to minimize detrimental impacts to the wetlands and will include restoration of the site as nearly as possible to its original grade.

The Project is designed to replace existing infrastructure in an existing and maintained utility ROW. The Project does not propose any permanent impacts directly to surface waters or wetlands. Areas where district buffers are impacted have been reduced by using upland matting adjacent to wetlands in some areas and by reducing the overall footprint of structure work pads in others. Additionally, where ground disturbance and work area construction will occur near wetlands, appropriate erosion prevention measures will be implemented during construction and post-construction to prevent the migration of sediment laden runoff from reaching the adjacent wetlands. These areas will be inspected regularly for correct installation and to confirm that they remain effective erosion prevention measures.

The erosion control prevention and sediment control methods and materials will follow the Utility BMP Manual. Perimeter controls (silt fence, straw bales, straw wattles, etc.) will be used to protect adjacent resources and off-site areas. If necessary, other BMPs including stone check dams and dewatering basins will be used to control and treat stormwater and prevent runoff to abutting or downstream properties.

Temporary wetland and wetland buffer impacts will be avoided and minimized by following the Utility BMP Manual. This includes:

- Using wooden construction mats to support machinery in wetlands;
- Removing and restoring temporary impacts to wetlands, if necessary;
- Smoothing rutted areas, seeding as required, and mulching with weed-free straw;
- Using erosion and sediment controls as needed where ground disturbing activities are adjacent to wetland areas;
- Requiring contractors to follow practices outlined in the Utility BMP Manual to help prevent the spread of invasive species; and
- Conducting weekly inspections to monitor compliance with minimization measures and providing any site restoration recommendations as needed.

The new structure locations and associated structure components were designed by Eversource's engineers. Work and access roads were designed based on the results of the wetland delineation performed by a New Hampshire Certified Wetland Scientist and a constructability field review by Eversource engineers and construction personnel.

(d) Mitigation: If the APPLICANT is required by State rules to prepare a compensatory mitigation plan, the APPLICANT shall provide the Conservation Commission and PLANNING BOARD with one copy each of said plan for their review.

The Project will require temporary matting impacts to wetlands but will not result in permanent loss of any wetland area or permanent alterations to the wetland hydrology or associated vegetation; therefore, a compensatory mitigation plan is not proposed for the work in any of the

five Impact Areas. Additionally, the applicant has consulted with the NHDES Wetlands Bureau, which has concurred with the minimum impact determination for the R169 Project.

(e) *Approval for the wetlands impact has been received from the NHDES Wetlands Bureau pursuant to Section G (3), below.*

A Wetlands Utility Maintenance Activity SPN will be submitted for the Project. On November 16, 2023, Eversource met with the NHDES Wetlands Bureau and the USACE. During this meeting, a determination was made that the Project qualified for a 'minimum impact' since there are no permanent impacts to delineated wetlands, vernal pools, streams or other sensitive resources associated with the Project and Eversource will minimize temporary impacts and restore permanent upland impacts. The SPN application and NHDES and USACE permit approvals will be forwarded to the City as required and/or requested. Additional pending approvals are listed in Section 4.2 below.

4.2 CONSERVATION DISTRICT

The Conservation District includes water bodies, rivers, streams, swamps and marshes subject to tidal action and those areas within a minimum of 100 ft of each, as defined in Dover Zoning Ordinance, Article 170-27. The Conservation District also includes specific lots as defined in Article 170-27, as well as areas with slopes 20% and more than 2,000 square feet (sf) of contiguous area, neither of which is located within the Project area. Project activities subject to a CUP that are within the Conservation District are limited to temporary placement of timber mats at stream crossings and creation of stone work pads and access road improvements in river and stream buffer areas. New structures will be placed in the same general location as the existing structures. The proposed access roads were sited along existing roads or trails wherever possible.

The Project will meet the following Conservation District standards for Conditional Use Approval, as outlined in the Dover Zoning Ordinance, Article 170-27.C(2).

(a) The APPLICANT shall demonstrate that the proposed use is essential to the productive use of land not in the district; is located and constructed to minimize any detrimental impact of such use upon the surface waters or other environmentally sensitive areas, where it is physically impossible to locate such use on land not in the district; and economic advantage alone shall not be deemed a sufficient reason for such proposed use.

Approval of this CUP application would allow Eversource to maintain critical infrastructure necessary to provide the public with reliable electricity. The existing structures and line are currently located within the Conservation District and would remain as such following the structure replacements. The proposed Project is in the public's interest (versus economic advantage to Eversource) because the structure replacements will allow for the continued supply of reliable electricity to Eversource's customers. The avoidance and minimization efforts described above in section 4.1 for the Wetland Protection District also apply to the Conservation District.

(b) *A soil erosion and sedimentation control plan is submitted and followed to verify the planned avoidance of sediment pollutant runoff to bodies of water. This plan will address the following (if applicable), but should not be limited to:*

(i) stabilization of exposed soils and soil stockpiles;
(ii) protection of steep slopes from erosion;
(iii) construction site waste management;
(iv) inspection and maintenance of runoff control measures (BMPs);
(v) minimization of land clearing;
(vi) stabilization of drainage ways;
(vii) installation of perimeter controls;
(viii) installation of sediment trapping devices; and
(ix) storm drain inlet protection.

Erosion and sedimentation control practices will follow the Utility BMP Manual). Typical erosion and sedimentation controls devices used within the ROW may consist of silt fence, straw wattles, stone check dams, and/or hay and weed-free straw mulch stabilization. Erosion and sedimentation control notes and details are included on the attached map set. Approximate locations of erosion and sedimentation controls are shown around proposed work areas and access roads on the attached map set. Installation and maintenance of erosion and sedimentation controls will occur throughout the construction phase of the project. The controls will be inspected regularly by Eversource's contractors and environmental monitors and maintained and/or replaced as needed. Additional details are provided in sections 3.3 and 3.4 above.

(c) Necessary state and federal approvals have been applied for. Said permits shall be received prior to the issuance of the Conditional Use Permit by the Planning and Community Development Department.

Regulatory permits, approvals, and notifications required for the proposed Project are summarized below. The City will be provided copies of permit approvals when they are received. Given the review periods associated with some of the required permits, Eversource requests that the City condition approval of the CUP so that permit may be provided as they are received, rather than prior to the issuance of the CUP. The following state and federal permits are anticipated to be required for the Project:

- NHDES Utility Statutory Permit by Notification (submitted)
- NHDES Protected Shoreland Permit by Notification (pending submission)
- NHDES Alteration of Terrian Permit (submitted)
- USACE Pre-Construction Notification (pending submission)
- USACE Section 408 Variance Approval (pending)

(d) *A written review by the Conservation Commission of the environmental effects of the proposed use upon the area in question has been submitted. The Commission's review shall address the following, but is not limited to:*

(i) attempted avoidance of the impact;

(ii) minimization of the impact;

(iii) planned mitigation of the effects of the impact; and

(iv) efficacy of the soil erosion and sedimentation control plan.

Watercourses and surface waters have been avoided to the extent possible, and no alterations of banks or natural geomorphology are proposed. Temporary construction mats will be used to bridge, and avoid, stream areas; mats will be removed following construction. Conditions or requests for information related to environmental effects made by the local Conservation Commission will be documented and applied to the project where feasible.

4.3 IMPACT AREAS

Anticipated temporary and permanent impacts within the Conservation District and Wetland Protection District are summarized by Impact Area in Table 1 and described per area below. Each area corresponds with respective map sheets (Impact Area 1 corresponds with Map Sheet 1, etc.) in the attached CUP permit map set. Temporary impacts include timber matting and areas that will be restored post-construction, and permanent impacts within buffers are for gravel access road and work pad construction. Most of the impacts across the five impact areas (Map Sheets 1–5) occur in the Wetland Protection District and of those impacts 64% are temporary; the remaining 36% are permanent impacts in upland wetland buffer areas (see Impact Area discussions below for more details).

4.3.1 Impact Area 1

Within the Wetland Protection District, anticipated impacts in Impact Area 1 include approximately 5,526 sf of temporary impacts within wetland buffer areas of wetland W02 (overlaps 100% with areas subject to tidal action in the Conservation District), and approximately 19,734 sf of temporary impacts within the buffer area of areas subject to tidal action in the Conservation District. These temporary impacts associated with the creation of access roads and work pad construction are necessary to complete the replacement of proposed structures 27 and 28. Disturbances associated with these structure replacements will be fully restored once construction is complete, and no permanent impacts are anticipated in either District.

Impacts were avoided and minimized to the greatest extent practicable by minimizing the length of the new access road, locating access roads and work pads outside of wetland boundaries and wetland buffers, where possible, utilizing existing disturbances/access roads, and reducing the construction footprint and restoring areas along the Cocheco River shoreland that are within the Wetland Protection and Conservation Districts.

4.3.2 Impact Area 2

Within the Wetland Protection District, anticipated impacts in Impact Area 2 include approximately 742 sf of temporary wetland impacts (i.e., timber matting) and approximately 1,802 sf of temporary impacts in wetland buffer areas to cross wetland W11 and stream S04 along the access route between proposed structures 18 and 19. Within the Conservation District, approximately 1,515 sf of temporary impacts in stream buffer areas are anticipated. Overlapping buffer areas include approximately 773 sf of temporary impacts. Areas within and surrounding the Districts are existing fields and residential areas, and temporary upland matting will be used to avoid ground disturbance at the landowner's request. No permanent impacts are anticipated within either District.

4.3.3 Impact Area 3

Within the Wetland Protection District, anticipated impacts in Impact Area 3 include approximately 23,279 sf of temporary wetland impact (i.e., timber matting), approximately 16,716 sf of temporary impact in wetland buffer areas, and approximately 29,941 sf of permanent impact in wetland buffer areas to create the access road and work areas associated with proposed structures 13 through 18, across wetlands W12 through W16.

Impact Area 3 is the only Impact Area on the R169 line where upland buffer area impacts are proposed to be permanent (see Table 1 and Map Sheet 3 of 5). The permanent impacts are a result of the proposed 100-ft by 100-ft gravel work pads around proposed structures 14, 15, 16, and 18. In the case of the pads at proposed structures 14, 15, and 18, a portion of the 100-ft by 100-ft pad area will be gravel, with the remaining pad area constructed using temporary wetland matting. In these three locations, it is likely that the temporary matting will cover an even greater proportion of the pad area. Proposed structure 16 is the sole location where the entire pad is proposed to be gravel, and this location is entirely upland. No temporary or permanent impacts are anticipated within the Conservation District in Impact Area 3.

4.3.4 Impact Area 4

Within the Wetland Protection District, anticipated impacts in Impact Area 4 include approximately 3,188 sf of temporary wetland impact (i.e., timber matting) and approximately 1,852 sf of temporary impact in wetland buffer areas. Temporary impacts to wetlands and buffers include access across wetland W17 between proposed structures 9 and 10, and work areas and access in wetland W18 at proposed structure 7; no permanent impacts are anticipated due to landowner requests to use upland matting to protect existing field areas. No Conservation Districts are present in Impact Area 4.

4.3.5 Impact Area 5

Within the Wetland Protection District, anticipated impacts in Impact Area 5 include approximately 29,676 sf of temporary wetland impact (i.e., timber matting) and approximately 942 sf of temporary impact in wetland buffer areas to create work areas and access in wetland W18 associated with proposed structure 6; no permanent impacts are proposed. The Project will utilize an existing gravel access road from the 307 line ROW to proposed structure 6 to traverse through the Conservation Districts associated with

streams S05, S06, and S07 to avoid temporary and permanent impacts within those buffers. No work is proposed within the Conservation District associated with the Piscataqua River.

PHOTOGRAPHS

R169 STRUCTURE REPLACEMENT PROJECT
CUP APPLICATION - REPRESENTATIVE PHOTOGRAPHS

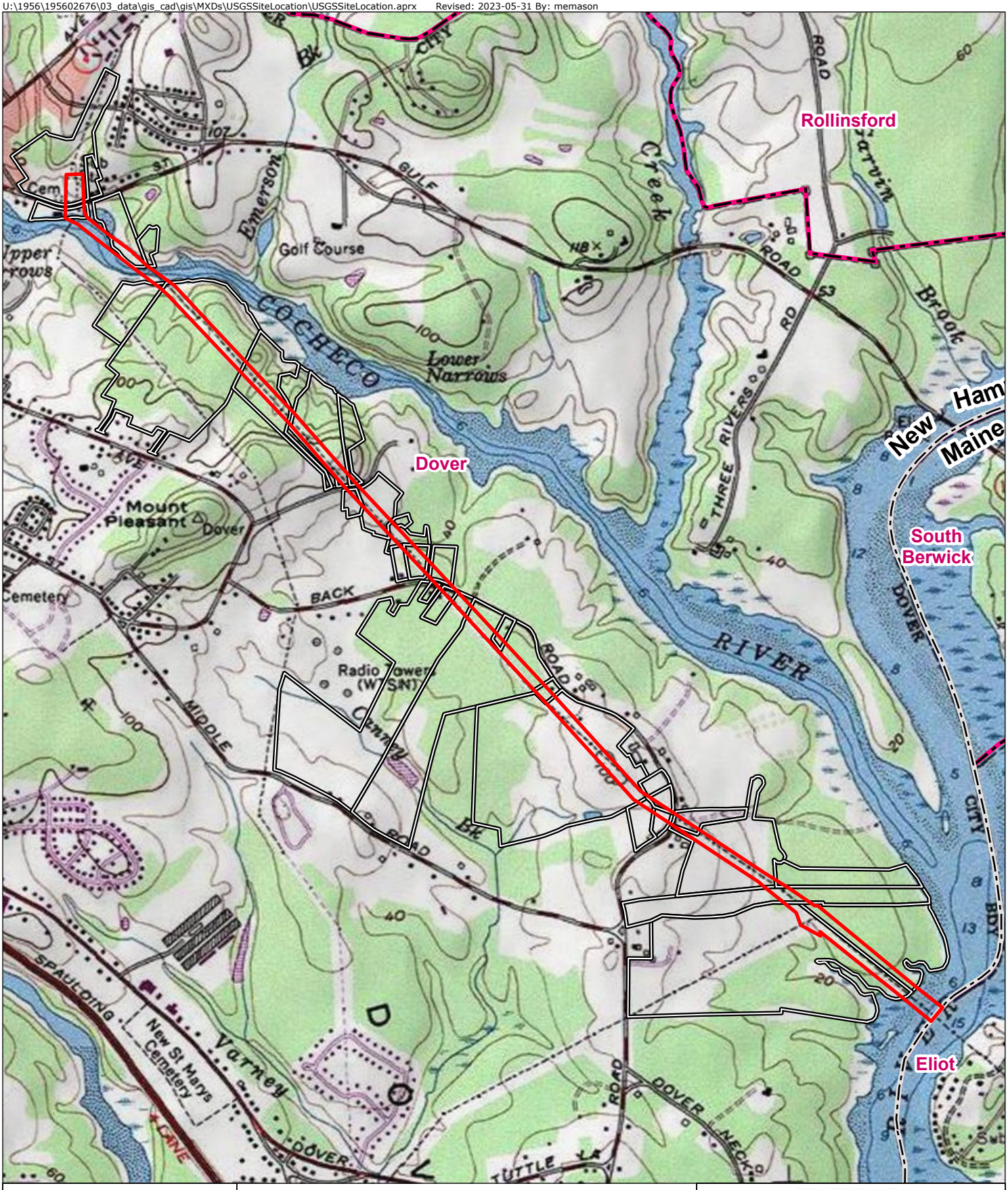
December 22, 2023

Photo 1. Representative view of the ROW and wetland W18. View west from proposed structure 6 towards proposed structure 7 (structure 7 is included in Impact Area 4 CUP application). Stantec. June 8, 2023.

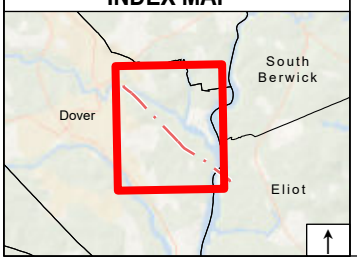
Photo 2. Scrub-shrub wetland habitat at proposed structure 6 prior to mowing. Stantec. June 8, 2023.

FIGURES

U:\1956\195602676\03_data\gis_cad\gis\MXDs\USGSSiteLocation\USGSSiteLocation.aprx Revised: 2023-05-31 By: memason



INDEX MAP



Legend

- Approximate Project Limits
- Municipal Boundary
- State Boundary
- Abutting Parcel Boundary

N

1 inch = 1,500 Feet

0 750 1,500 Feet

EVERSOURCE ENERGY

Dover to Eliot (R169)
Structure Replacement Project

Date: May 31, 2023

Figure 1
USGS Location Map

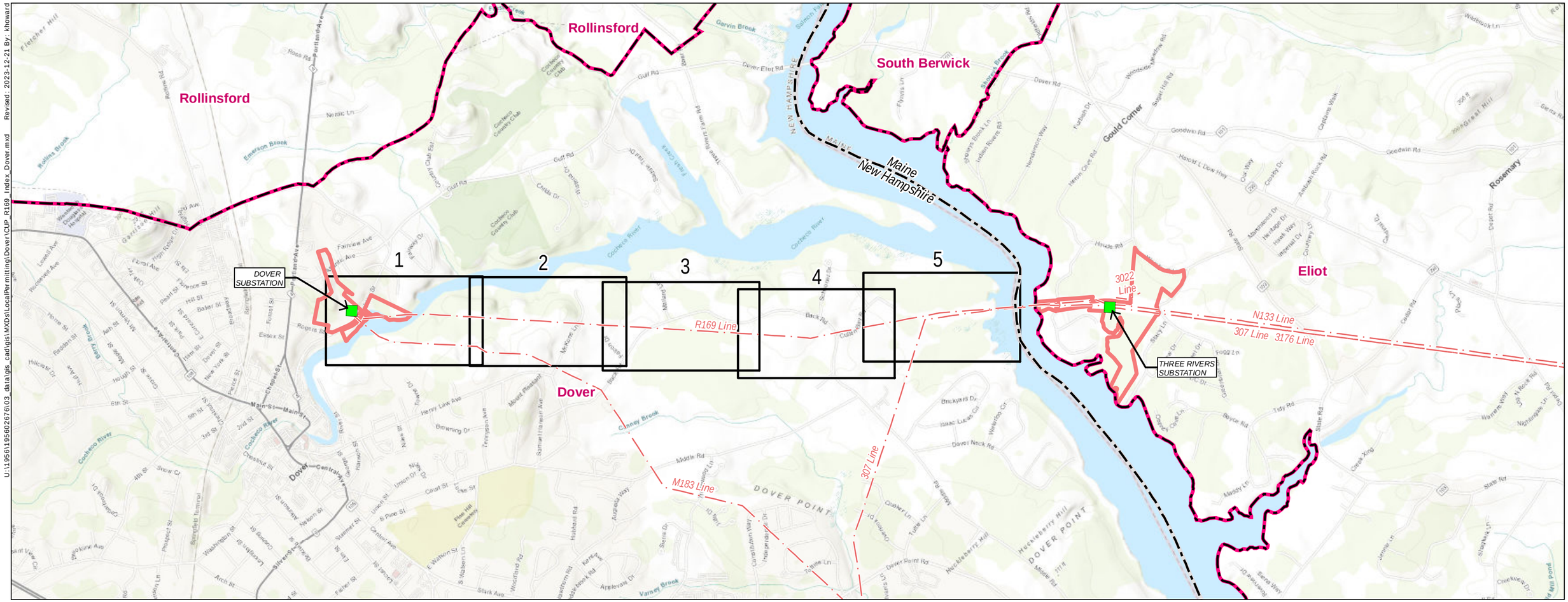
R169 Line - Structure Replacement Project

Dover, NH

Environmental Resources Map

Dover CUP Permit Map Set

Date: December 21, 2023



Legend

Substation | Municipal Boundary | State Boundary | Map Sheet | Eversource Owned Property

PREPARED FOR:

EVERSOURCE ENERGY

107 Selden Street
Berlin, CT 06037

N

0 2,000 4,000 Feet

INDEX OF FIGURES

Title Sheet / Index Map
Map Sheets 1-5

PREPARED BY:

Stantec

30 Park Drive
Topsham, ME 04086

Temporary Wetland Impact (SF)	Temporary Wetland Protection District Impact (SF)	Temporary Conservation District Impact (SF)	Permanent Wetland Protection District Impact (SF)	Permanent Conservation District Impact (SF)
29,676	942	-	-	-

CULLEN BAY ROAD

CULLEN BAY ROAD

831-001
Tax Map ID: M0092-A00000
Patricia Langs
Back Road

831-002
Tax Map ID: M0092-H00000
Marie V Hebert Trustee
Cullen Bay Road

831-003
Tax Map ID: M0092-B00000
Cullen Bay Homeowners Association
Cullen Bay Road

829-139
Tax Map ID: M0104-000000
Alan G. Dexter Trustee
Back River Road

829-138
Tax Map ID: M0091-A00000
Townsquare Media Portsmouth LLC
292 Middle Road

TEMPORARY WETLAND IMPACT: +/-2,375 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-10,000 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-10,000 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-6,494 SQ.FT.

SPAN STREAM AND WETLAND NO IMPACT

Dover

Piscataqua River

Maine
New Hampshire

R169 Line

307 Line

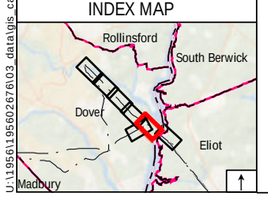
W18-PSS

S05

S06

S07

INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending
- Proposed Access
- Sediment Control Barrier (Typ.)
- Stone Work Pad
- Temporary Wetland Construction Matting
- Temporary Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 880 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- FEMA 100-Year Flood Zone
- FEMA Floodway
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Culvert
- NHDES 250' Protected Shoreland
- Conservation District
- Wetland Protection District

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines provided by Eversource Energy. Wetlands, watercourses, and potential vernal pools delineated and verified by Stantec June 2023. Additional sources include: FEMA, NH Granit, Maine Geolibrary Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery.

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

R169 Line Structure Replacement
Dover CUP Permit Map Set

Dover, NH | MAP SHEET 5 of 5

Date: December 21, 2023

Stantec

U:\13956\13956026716\03_data\gis_cad\gis\MXDs\LocalPermitting\Dover\CUP_R169_MapSet_Dover1.mxd Revised: 2023-12-21 By: khoward

APPENDICES

Appendix A WETLAND DELINEATION REPORT

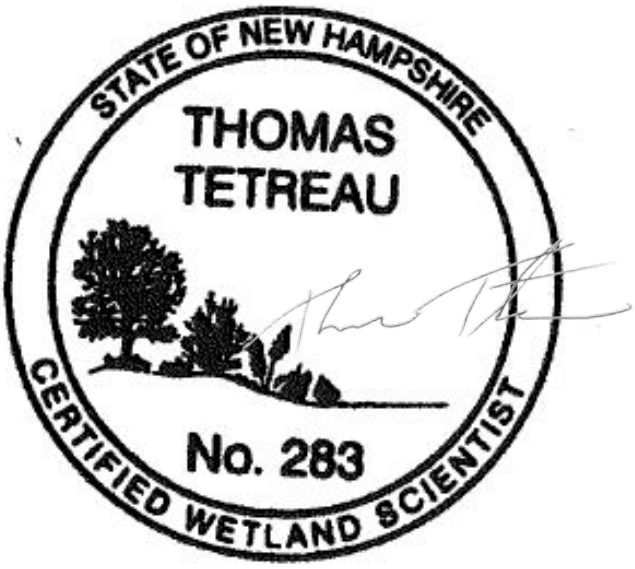
Wetland and Watercourse Delineation and Functional Assessment Report: R169 Structure Replacement Project

Dover, New Hampshire, and Eliot, Maine

September 14, 2023

Prepared for:

Eversource Energy
13 Legends Drive
Hooksett, NH 03106



Prepared by:

Stantec Consulting Services Inc.
30 Park Drive
Topsham, ME 04086

Table of Contents

1.0 INTRODUCTION 1

2.0 METHODS 1
2.1 WETLAND AND WATERCOURSE DELINEATION 1
2.2 FUNCTIONAL ASSESSMENT 2

3.0 RESULTS 3
3.1 GENERAL SITE DESCRIPTION 3
3.2 WETLAND AND WATERCOURSE DELINEATION 3
3.3 FUNCTIONAL ASSESSMENT 7

LIST OF TABLES

Table 1. Summary of Delineated Wetlands 4
Table 2. Summary of Delineated Streams 6
Table 3. Summary of Identified Vernal Pools 7
Table 4. Summary of Functional Assessment 8

LIST OF FIGURES

Permit Map Set

LIST OF APPENDICES

Appendix A Representative Photographs
Appendix B Corps Wetland Determination Data Forms (provided upon request)
Appendix C Wetlands Functional Assessment Worksheets (provided upon request)
Appendix D Observed Wildlife

1.0 INTRODUCTION

Eversource Energy (Eversource) proposes to replace approximately 20 existing transmission line structures located within the full length of the R169 Line, totaling approximately 3 miles of combined transmission line right-of-way (ROW) in Dover, New Hampshire and Eliot, Maine (Project Site; see attached Draft Map Set). Of the 20 structures proposed to be replaced, 19 are located in Dover and 1 is located in Eliot. Stantec Consulting Services Inc. (Stantec) was contracted to conduct wetland and watercourse delineations and a wetland functional assessment of the Project Site to support federal, state, and local natural resource permitting.

Stantec conducted on-site delineations within the existing ROW between June 8 and June 9, 2023. The delineations were conducted by Tom Tetreau, New Hampshire Certified Wetland Scientist #283. This report includes descriptions of the wetland and watercourse delineation methods and results.

2.0 METHODS

2.1 WETLAND AND WATERCOURSE DELINEATION

The R169 Line was previously delineated over 5 years ago, and the spatial data of these previously delineated wetlands and watercourses were used to aid in the 2023 wetland and watercourse delineation.

Wetland boundaries under local, state, and federal jurisdiction were determined using the technical criteria described in the U.S. Army Corps of Engineers (Corps) *Corps of Engineers Wetlands Delineation Manual*[1] and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Regional Supplement.*[2] Wetland communities were classified according to the *Classification of Wetlands and Deepwater Habitats of the United States.*[3] Hydric soil determinations were made in accordance with the Corps wetland delineation manuals and the *Field Indicators for Identifying Hydric Soils in New England (Version 4).*[4]

Wetland boundaries anticipated to meet state, federal, and local jurisdictional criteria were located using a Global Positioning System (GPS) receiver capable of submeter accuracy. The previously delineated

[1] Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1. U.S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, MS.
[2] U.S. Army Corps of Engineers. 2011. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Version 2.0), ed. J. S. Wakeley, R. W. Lichvar, and C. V. Noble. ERDC/EL TR-12-1. Vicksburg, MS: U.S. Army Engineer Research and Development Center.
[3] Federal Geographic Data Committee. 2013. Classification of wetlands and deepwater habitats of the United States. FGDC-STD-004-2013. Second Edition. Wetlands Subcommittee, Federal Geographic Data Committee and U.S. Fish and Wildlife Service, Washington, DC.
[4] New England Hydric Soils Technical Committee. 2017. Field Indicators for Identifying Hydric Soils in New England (Version 4).

wetland boundaries were confirmed using the GPS, with revisions to the boundaries located with the GPS as necessary.

Watercourses (e.g., streams) identified during the delineations were identified based on the definitions in NHDES Certified Administrative Rules Env-Wt 406.04, as well as the technical guidance available from the Corps on the identification of an Ordinary High Water Mark.[5] The top of each bank was mapped for streams typically over 6 feet wide, and the centerline was mapped for streams with top of bank widths up to 6 feet wide. Data was collected on flow regime, top of bank, band depth, Ordinary High Water Mark widths, dominant substrates, and evidence of biological use. GPS data were used to produce the attached map set.

The wetland delineation occurred outside the appropriate identification period for vernal pool indicator species; therefore, potential vernal pools were identified and evaluated in accordance with the *Identification and Documentation of Vernal Pools in New Hampshire.*[6] Potential vernal pools were primarily identified based on their physical characteristics and landscape position, and the presence of vernal pool indicator species, if observed. Observations of approximate size, hydrology, and evidence of disturbance were recorded. The boundaries of the potential vernal pools were located with GPS receivers, and photographs were taken of each vernal pool identified.

Priority Resource Areas (PRA), as defined in Env-Wt 103.66, were identified based on field observations and use of the Wetlands Permit Planning Tool.[7] PRAs identified along the R169 Line consisted of wetlands contiguous with tier 3 streams, tidal wetlands, and undeveloped tidal buffer zones.

2.2 FUNCTIONAL ASSESSMENT

Stantec performed a wetland functional assessment of the delineated wetlands and watercourses in accordance with New Hampshire Wetland Rules (Env-Wt 311.10). Wetland functions and values were qualitatively evaluated through direct field observation and a review of existing public data resources following the New Hampshire Method for evaluating the Ecological Integrity of the Wetlands and Streams (RSA 482-A:2, XI) and Corps *Highway Methodology Workbook Supplement.*[8] Information was collected to prepare Corps Wetland Determination Data Forms and Wetlands Functional Assessment Worksheets. Full assessments of Ecological Integrity using the New Hampshire Method is based on a series of desktop and field assessments and results in a numerical Functional Value Index for each wetland. Due to the length of the Project area, the abundance of wetlands, and the anticipated wetland impacts associated with the Project (temporary timber matting), Stantec evaluated the Ecological Integrity of each wetland using a qualitative value of low, medium, and high that considered the condition of the wetland

[5] U.S. Army Corps of Engineers. 2005. Regulatory Guidance Letter: Ordinary High Water Mark Identification. December 8, 2005. No. 05-05.

[6] Marchand, M. 2016. *Identifying and Documenting Vernal Pools in New Hampshire*. Third Edition, New Hampshire Fish and Game Department, Nongame and Endangered Wildlife Program.

[7] https://nhdeswppt.unh.edu/, accessed June 2023.

[8] U.S. Army Corps of Engineers. 1999. The Highway Methodology Workbook Supplement, Wetland Functions and Values: A Descriptive Approach. U.S. Army Corps of Engineers. New England Division. 32pp. NAEEP-360-1-30a.

relative to human-caused stressors, diversity of native vegetation, and presence of natural processes. This modified method allowed for a more consistent and streamlined approach when completing the required Wetlands Functional Assessment Worksheets. The temporary impact area (matting) listed on the Wetlands Functional Assessment Worksheets is approximate based on preliminary mapping and Project design and represents the greatest amount of impact likely to occur. Temporary wetland impacts will be minimized throughout the permitting and design process, and some of these wetland impact areas may decrease.

3.0 RESULTS

3.1 GENERAL SITE DESCRIPTION

The R169 Line is an existing transmission line that traverses forested, residential, and agricultural landscapes between the Dover Substation in Dover and the Three Rivers Substation in Eliot. The open transmission line is approximately 100 feet wide in most areas, with wider stretches, up to 250-feet wide, containing additional transmission lines in the areas around the Piscataqua River crossing. The ROW primarily crosses rural areas and town roads, as well as the Cocheco River and the Piscataqua River. The topography varies from flat lowlands and fields to undulating hills and steep side slopes. Elevations generally range between 0 and 90 feet above mean sea level.

The open upland natural communities consist of early successional shrub, sapling, and herbaceous species. Characteristic woody vegetation includes gray birch (*Betula populifolia*), quaking aspen (*Populus tremuloides*), red maple (*Acer rubrum*), sheep-laurel (*Kalmia angustifolia*), late lowbush blueberry (*Vaccinium angustifolium*), white meadowsweet (*Spiraea alba*), Allegheny blackberry (*Rubus allegheniensis*), American hazelnut (*Corylus americana*), red oak (*Quercus rubra*), and red raspberry (*Rubus idaeus*). Commonly observed herbaceous vegetation included little Canada mayflower (*Maianthemum canadense*), wrinkle-leaf goldenrod (*Solidago rugosa*), Canada goldenrod (*Solidago canadensis*), bracken fern (*Pteridium aquilinum*), hay-scented fern (*Dennstaedtia punctilobula*), wild strawberry (*fragaria virginiana*), bristly dewberry (*Rubus hispidus*), Kentucky blue grass (*Poa pratensis*), and other common grass and wildflower species. Non-native invasive species abundance was moderate compared to native vegetation and included rambler rose (*Rosa multiflora*), Japanese barberry (*Berberis thunbergii*), Morrow's honeysuckle (*Lonicera morrowii*), and glossy false buckthorn (*Frangula alnus*). Soils within the ROW consisted primarily of loam and silty loam.

3.2 WETLAND AND WATERCOURSE DELINEATION

The wetland and watercourse delineations were conducted on June 8 and June 9, 2023, under appropriate conditions during the growing season. A total of 23 wetlands, 9 unnamed watercourses, and the Cocheco River and Piscataqua River were delineated. In addition, one potential vernal pool was surveyed. The locations of the delineated wetlands, watercourses, and potential vernal pool are included on the attached Draft Map Set. Tables 1, 2, and 3 summarize the delineated wetlands, watercourses, and potential vernal pool, respectively. Representative site photographs are provided in Appendix A. Representative Corps Wetland Determination Forms are included in Appendix B.

Table 1. Summary of Delineated Wetlands

Wetland Resource Identifier	Wetland Classification[1]	Dominant and Characteristic Vegetation	Hydric Soil Indicators	Wetland Hydrology Indicators	Priority Resource Area (PRA)	Additional Comments
W001	PEM	Trees: None Saplings/Shrubs: None Herbs: broad-leaf cat-tail (*Typha latifolia*), lamp rush (*Juncus effusus*), cottongrass bulrush (*Scirpus cyperinus*), sensitive fern *(Onoclea sensibilis*), uptight sedge (*Carex stricta*)	F3: Depleted Matrix	A3: Saturation B9: Water-stained leaves	No	Ditch excavation around existing substation
W002	E2EM	Trees: none Saplings/Shrubs: none Herbs: saltwater cord grass (*Spartina alterniflora*), eastern grasswort (*Lilaeopsis chinesis*)	F3: Depleted Matrix	A1: Surface Water A2: High Water Table A3: Saturation	Yes - Tidal	Tidal wetland associated with Cocheco River. Rare plant species observed.
W003	PFO	Trees: Norway maple (*Acer plantanoides*) Saplings/Shrubs: speckled alder (*Alnus incana*) Herbs: sensitive fern, lamp rush	F3: Depleted Matrix	A3: Saturation B9: Water-stained leaves	Yes – within 100-feet of tidal areas	Stream S01 flows through wetland and into the Cocecho River.
W004	PSS	Trees: None Saplings/Shrubs: speckled alder Herbs: broad-leaf cat-tail, sensitive fern	F3: Depleted Matrix	A2: High Water Table A3: Saturation	Yes – within 100-feet of tidal areas	
W005	PSS/PEM	Trees: None Saplings/Shrubs: speckled alder Herbs: sensitive fern, broad-leaf cat-tail, lamp rush	F3: Depleted Matrix	A2: High Water Table A3: Saturation	No	
W006	PEM	Trees: none Saplings/Shrubs: red maple, speckled alder Herbs: sensitive fern, broad-leaf cat-tail, lamp rush, reed canary grass (*Phalaris arundinacea*), spotted touch-me-not (*Impatiens capensis*)	F3: Depleted Matrix	A3: Saturation	No	Contains potential vernal pool PVP01.
W007	PSS	Trees: none Saplings/Shrubs: speckled alder Herbs: sensitive fern, lamp rush, spotted touch-me-not, bluejoint (*Calamagrostis canadensis*), woodland horsetail (*Equisetum sylvaticum*)	F3: Depleted Matrix	A3: Saturation	No	Contains stream S02.
W008	PEM	Trees: none Saplings/Shrubs: speckled alder Herbs: broad-leaf cat-tail, sensitive fern, uptight sedge	F3: Depleted Matrix	A3: Saturation	No	Contains stream S03.
W009	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, lamp rush, spotted touch-me-not, purple loosestrife (*Lythrum salicaria*)	F3: Depleted Matrix	A3: Saturation	No	

Wetland Resource Identifier	Wetland Classification[1]	Dominant and Characteristic Vegetation	Hydric Soil Indicators	Wetland Hydrology Indicators	Priority Resource Area (PRA)	Additional Comments
W010	PEM/PSS	Trees: none Saplings/Shrubs: speckled alder Herbs: sensitive fern, lamp rush, woodland horsetail, bluejoint, reed canary grass	F3: Depleted Matrix	A3: Saturation	No	
W011	PSS	Trees: none Saplings/Shrubs: speckled alder, common winterberry (*Ilex verticilata*) Herbs: nodding sedge (*Carex gynandra*), sensitive fern, spotted touch-me-not, reed canary grass	F3: Depleted Matrix	A2: High Water Table A3: Saturation	No	Contains stream S04.
W012	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, bluejoint, lamp rush, broad-leaf cat-tail	F3: Depleted Matrix	A3: Saturation	No	
W013	PEM	Trees: none Saplings/Shrubs: alder Herbs: sensitive fern, broad-leaf cat-tail, lamp rush, skunk-cabbage (*Symplocarpus foetidus*)	F3: Depleted Matrix	A2: High Water Table A3: Saturation	No	
W014	PEM/PSS	Trees: none Saplings/Shrubs: red maple, speckled alder, common winterberry Herbs: sensitive fern, lamp rush, broad-leaf cat-tail, reed canary grass, wrinkle-leaf goldenrod	F3: Depleted Matrix	A3: Saturation B9: Water-stained leaves	No	
W015	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, bluejoint, steeplebush, wrinkle-leaf goldenrod, lamp rush	F3: Depleted Matrix	A3: Saturation	No	Portion of wetland within maintained lawn/yard area.
W016	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, lamp rush, uptight sedge, fowl manna grass (*Glyceria striata*), greater bladder sedge (*Carex intumescens*)	F3: Depleted Matrix	A3: Saturation	No	
W017	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, bluejoint, reed canary grass	F3: Depleted Matrix	A3: Saturation B9: Water-stained leaves	No	
W018	PSS/PEM	Trees: none Saplings/Shrubs: broad-leaf meadowsweet (*Spiraea latifolia*), coastal sweet pepperbush (*Clethra alnifolia*), speckled alder, common winterberry Herbs: sensitive fern, lamp rush, bluejoint, blue iris (*Iris versicolor)*	F3: Depleted Matrix	A3: Saturation	No	Portion of wetland is mowed hay field. Contains stream S05.

Wetland Resource Identifier	Wetland Classification[1]	Dominant and Characteristic Vegetation	Hydric Soil Indicators	Wetland Hydrology Indicators	Priority Resource Area (PRA)	Additional Comments
W019	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, lamp rush, broad-leaf cat-tail, necklace sedge (*Carex projecta*)	F3: Depleted Matrix	A3: Saturation	No	
W020	PEM/PSS	Trees: none Saplings/Shrubs: pussy willow (*Salix discolor*) Herbs: sensitive fern, bluejoint, reed canary grass, lamp rush, broad-leaf cat-tail	F3: Depleted Matrix	A3: Saturation	No	
W021	PEM	Trees: none Saplings/Shrubs: speckled alder Herbs: lamp rush, sensitive fern, cottongrass bulrush	F3: Depleted Matrix	A3: Saturation B10: Wetland drainage patterns	No (Maine)	Adjacent to Piscataqua River. Portions within mowed lawn/yard area.
W022	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, lamp rush, woodland horsetail, cottongrass bulrush	F3: Depleted Matrix	A3: Saturation	No (Maine	
W023	PSS/PEM	Trees: none Saplings/Shrubs: broad-leaf meadowsweet, speckled alder, common winterberry Herbs: sensitive fern, lamp rush, broad-leaf cat-tail	F3: Depleted Matrix	A3: Saturation B9: Water-stained leaves	No (Maine)	

[1] PEM = Palustrine Emergent, PSS = Palustrine Scrub-shrub, PUB = Palustrine Unconsolidated Bottom, PFO = Palustrine Forested, E2EM = Estuarine Intertidal Emergent

Table 2. Summary of Delineated Streams

Stream Identifier	Flow Type	Bankfull Width (ft)	Ordinary High Water Mark Width (ft)	Dominant Substrates	Additional notes
S01	Perennial	4-6	4-6	Sand, gravel, silt	Flows south through W03, into the Cocheco River
Cocheco River	Perennial/Tidal	200+	200+	Silt, gravel, mud	
S02	Intermittent	2-3	2-3	Silt, gravel	Flows across ROW toward Cocheco River
S03	Perennial	8	8	Cobbles, gravel, boulders	Flows across ROW toward Cocheco River
S04	Perennial	4	4	Silt, gravel	Flows through wetland W11 in residence area
S05	Intermittent	4	4	Silt, gravel	Flows from wetland W18 towards Piscataqua River
Piscataqua River	Perennial/Tidal	850+	850+	Silt, gravel, mud	
S06	Intermittent	3	3	Sand, silt, gravel	Flows across ROW toward Piscataqua River; flows under existing road through culvert
S07	Intermittent	4	4	Gravel, cobbles	Flows across ROW toward Piscataqua River; flows under existing road through culvert
S08	Intermittent	4	4	Silt, gravel, cobbles	Flows across ROW toward Piscataqua River; flows under existing road through culvert
S09	Ephemeral	4	5	Sand, gravel	Originates from culvert under existing road, likely only flows during heavy rain

Table 3. Summary of Identified Vernal Pools

VP Identifier	Estimated Hydroperiod	Indicator Species	Comments
PVP01	Semi-permanent	Unknown adult frogs observed	Potential old excavation adjacent to pipeline crossing of the transmission line ROW. Approximately 50-foot diameter and 1 to 2 feet deep with mucky substrate.

3.3 FUNCTIONAL ASSESSMENT

Table 4 summarizes the results of the wetland functional assessment. In general, wetlands within the Project area provide a variety of functions and values. Nutrient Trapping / Retention & Transformation, Sediment Trapping, and Wetland-dependent Wildlife Habitat were the most common functions along with Groundwater Recharge and Flood Storage.

Wetlands Functional Assessment Worksheets for wetlands proposed to be impacted by temporary timber matting are included in Appendix C. Potential vernal pools and streams were considered when performing the functional assessment of impacted wetlands, but since no impacts are proposed to potential vernal pools and streams, a full assessment of these features was not included in the Wetlands Functional Assessment Worksheets. The list of observed wildlife is included in Appendix D, and Table 1 above includes the observed vegetation.

Table 4. Summary of Functional Assessment

Wetland Resource Identifier	Wetland Functions and Values[1]													
	1 Ecological Integrity[2]	2 Educational Potential	3 Fish and Aquatic Life Habitat	4 Flood Storage	5 Groundwater Recharge	6 Noteworthiness	7 Nutrient Trapping / Retention & Transformation	8 Production Export	9 Scenic Quality	10 Sediment Trapping	11 Shoreline Anchoring	12 Uniqueness/ Heritage	13 Wetland-based Recreation	14 Wetland-dependent Wildlife Habitat
W001	Low			X			P	X		X				
W002	High		P	P		P	P	X		X	P	X		X
W003	Moderate			P			X	X		X	X			X
W004	Moderate			P			X	X		X	P			X
W005	Moderate			P	X		X	X		X				X
W006	Moderate				P		X	X		X				P
W007	Moderate			X	P		X	X		X	P			X
W008	Moderate			X	P		X	X		X	P			X
W009	Low				P		X	X		X				X
W010	Moderate			X	P		X	X		X				X
W011	Moderate		X	X	X		X	X		X	P			X
W012	Low				X		P	X		X				X
W013	Moderate			X	X		P	X		X				X
W014	Moderate			X	X		P	P		X				X
W015	Low				X		X	X		P				X
W016	Low				X		P	X		X				X
W017	Moderate						X	P		X				X
W018	Moderate			X	X		P	X		X				X
W019	Low						P	X		P				X
W020	Low						P	X		P				X
W021	N/A, Maine			P	X		X	X		P				X
W022	N/A, Maine				X		X	X		P				X
W023	N/A, Maine			X	P	X	X	X		P				X

X = Function observed within wetland, P = Principal Function

[1] Corps Highway Methodology Workbook Supplement

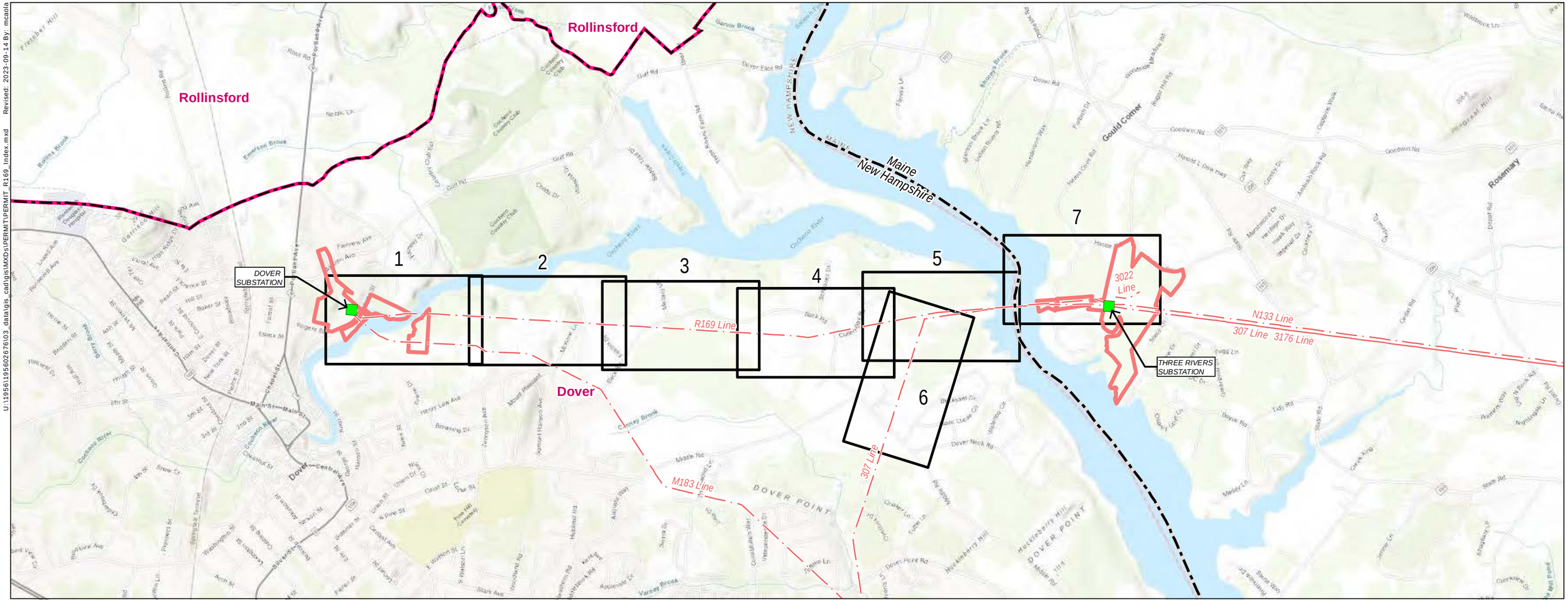
[2] Method for the Comparative Evaluation of Nontidal Wetlands in New Hampshire

FIGURES

R169 Line - Structure Replacement Project

Dover, NH and Eliot, ME
Environmental Resources Map
PERMIT Map Set
Date: September 14, 2023

U:\119561195602676\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_Index.mxd Revised: 2023-09-14 By: mcaola



Legend

Substation | Municipal Boundary | State Boundary | Map Sheet | Eversource Owned Property

N

0 2,000 4,000 Feet

PREPARED FOR:

EVERSOURCE ENERGY

107 Selden Street
Berlin, CT 06037

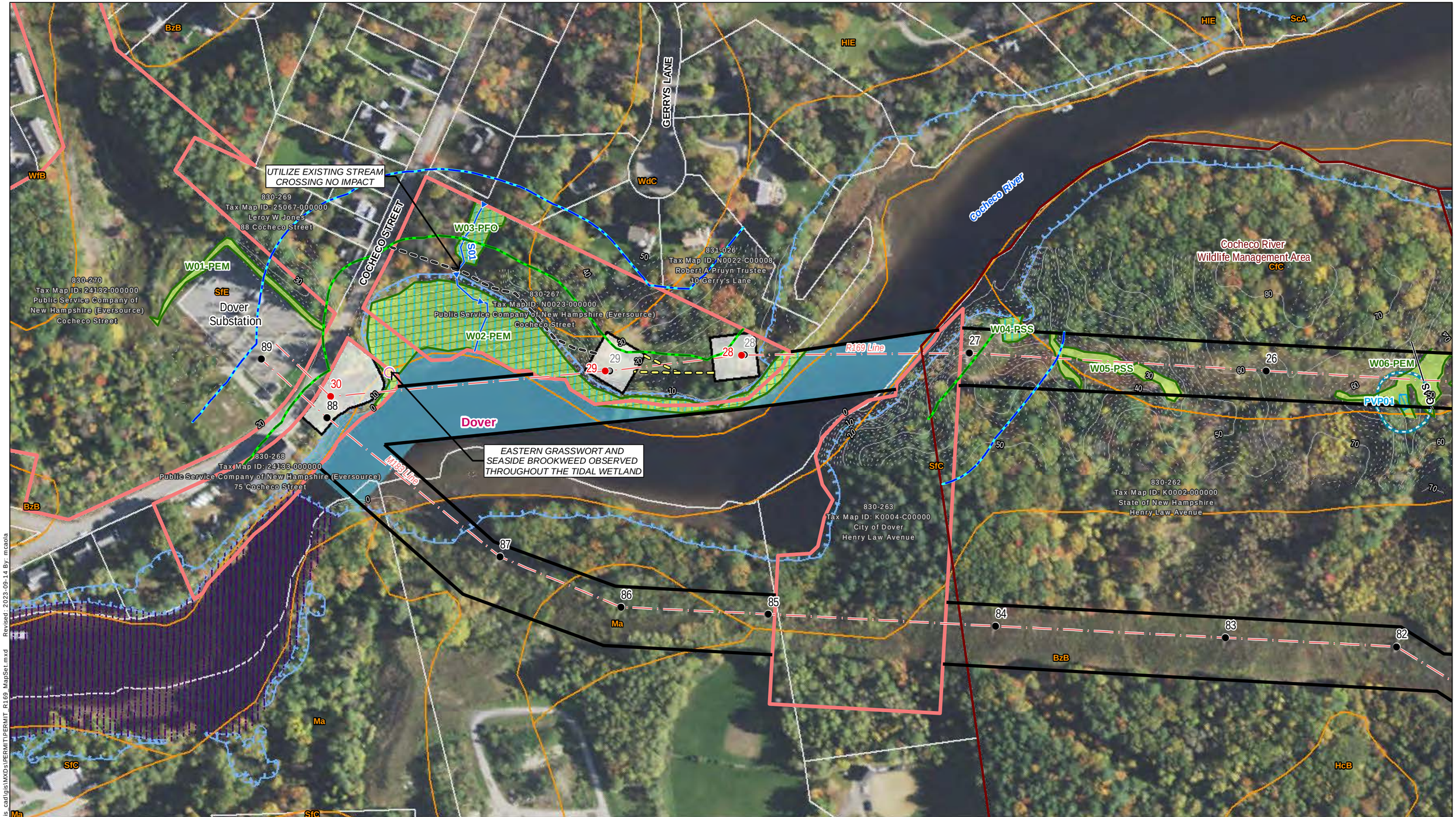
INDEX OF FIGURES

Title Sheet / Index Map
NRCS Soils Table
Map Sheets 1-7

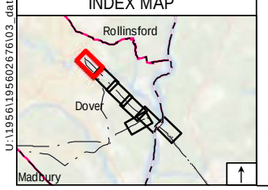
PREPARED BY:

Stantec

30 Park Drive
Topsham, ME 04086



INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 830 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine Geolibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

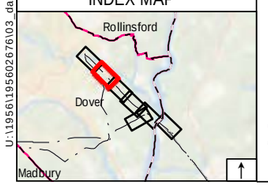
R169 Line Structure Replacement
PERMIT Map Set

Dover, NH	MAP SHEET 1 of 7
Date: September 14, 2023	Stantec

U:\19560\19560267\603_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

Dover
Cocheco River
Cocheco River Wildlife Management Area
831-022
Tax Map ID: N0018-001000
State of New Hampshire
McKone Lane
831-024
Tax Map ID: K0001-A00000
Robert Swanson
38 McKone Lane
831-025
Tax Map ID: K0001-A00001
State of New Hampshire
McKone Lane
831-023
Tax Map ID: K0001-B00000
State of New Hampshire
McKone Lane
830-262
Tax Map ID: K0002-000000
State of New Hampshire
Henry Law Avenue
831-020
Tax Map ID: N0018-006000
Daniel & Jacqueline Ayer Revocable Trusts
McKone Lane
831-019
Tax Map ID: N0018-014000
Brianna Dichter
10 Whiteley Drive
831-018
Tax Map ID: N0018-000OP1
One Home Builders II LLC
Eagan Drive
831-021
Tax Map ID: N0019-005000
Anthony P Ayer
47 McKone Lane
831-017
Tax Map ID: N0019-A00000
Elaine M Thurston
174 Back Road
WHITELEY DRIVE
EAGAN DRIVE
MCKONE LANE
FALCON DRIVE
BACKROAD
W06-PEM
PVP01
W07-PSS
W08-PEM
W09-PEM
W10-PEM
W11-PSS
SPAN STREAM NO IMPACT
CONFIGURE WORK PADS TO AVOID EXISTING STONEWALL
UTILIZE EXISTING BREACH IN STONEWALL
STONEWALL TO BE REMOVED AND REBUILT AFTER CONSTRUCTION
UTILIZE EXISTING PAVED DRIVEWAY
TEMPORARY WETLAND IMPACT: +/-742 SQ.FT.
R169 Line
M183 Line
ScA
HeD
HcC
SfC
WfB
HcB
DeA
HcD
CfC
CsD
CsB
WfC
HdD
BzB
HdC
HcB
ScB
HdB
WdB
82
81
80
79
78
8.5
25
24
23
22
21
20

INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 830 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine GeoLibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

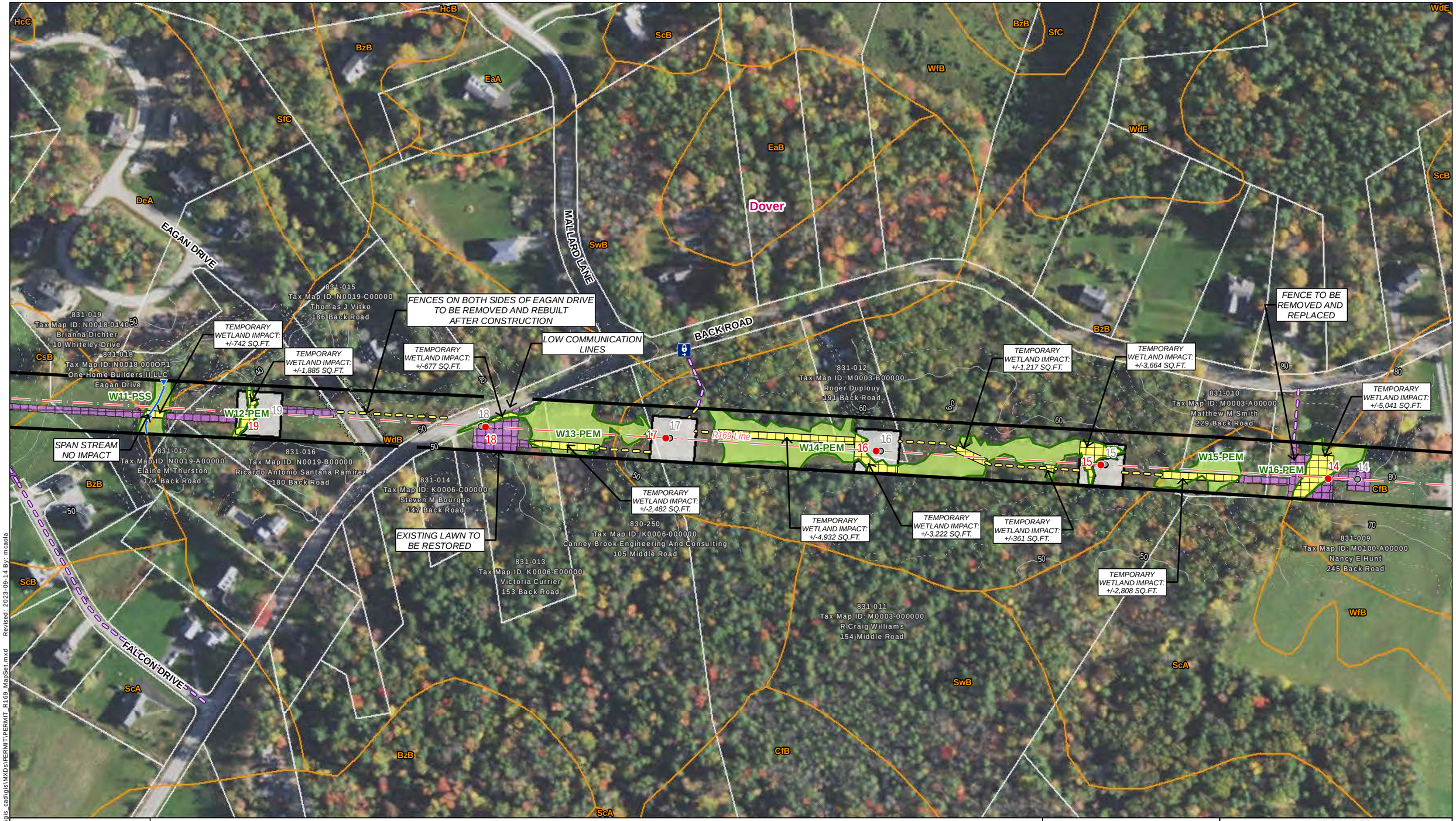
STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

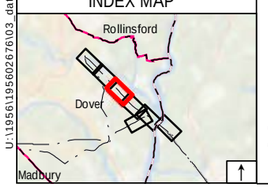
R169 Line Structure Replacement
PERMIT Map Set

Dover, NH	MAP SHEET 2 of 7
Date: September 14, 2023	Stantec

U:\119561195602676\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola



INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 830 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine Geolibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

R169 Line Structure Replacement
PERMIT Map Set

Dover, NH	MAP SHEET 3 of 7
Date: September 14, 2023	Stantec

U:\11956\11956026761\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

FENCE TO BE REMOVED AND REPLACED

TEMPORARY WETLAND IMPACT: +/-926 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-1,452 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-810 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-3,188 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-10,000 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-6,840 SQ.FT.

ACCESS FROM BACK ROAD

EXISTING LAWN TO BE RESTORED

SCHOONER DRIVE

CULLEN BAY ROAD

BACK ROAD

Dover

R169 Line

W16-PEM

W17-PEM

W18-PSS

831-008
Tax Map ID: M0100-B00000
Gregory W Hunt
295 Back Road

831-007
Tax Map ID: M0105-002000
Christopher D Berg
303 Back Road

831-004
Tax Map ID: M0093-B00000
Nancy Magiaras
362 Back Road

831-003
Tax Map ID: M0092-B00000
Cullen Bay Homeowners Association
Cullen Bay Road

831-005
Tax Map ID: M0105-000000
Eric W Thompson
321 Back Road

831-009
Tax Map ID: M0100-A00000
Nancy E Hunt
245 Back Road

831-006
Tax Map ID: M0105-001000
William C & Nancy Hunt Trustees
Back Road

831-001
Tax Map ID: M0092-A00000
Patricia Langs
Back Road

829-138
Tax Map ID: M0091-A00000
Townsquare Media Portsmouth LLC
292 Middle Road

WdE WdB BzB ScB CfB HcB WfB ScA SwB SfC HcC

INDEX MAP

Rollinsford
Dover
Madbury

Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 830 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine Geolibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

R169 Line Structure Replacement
PERMIT Map Set

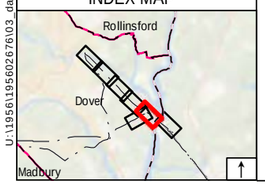
Dover, NH	MAP SHEET 4 of 7
Date: September 14, 2023	Stantec

U:\11956\19560267\6\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

SfC
HaA
WdB
SfC
WfB
SfC
DeB
CULLEN BAY ROAD
CULLEN BAY ROAD
Dover
Piscataqua River
Maine
New Hampshire
829-139
Tax Map ID: M0104-000000
Alan G. Dexter Trustee
Back River Road
831-001
Tax Map ID: M0092-A00000
Patricia Langs
Back Road
WdB
TEMPORARY WETLAND IMPACT: +/-2,022 SQ.FT.
831-002
Tax Map ID: M0092-H00000
Marie V Hebert Trustee
Cullen Bay Road
ScB
TEMPORARY WETLAND IMPACT: +/-10,000 SQ.FT.
831-003
Tax Map ID: M0092-B00000
Cullen Bay Homeowners Association
Cullen Bay Road
W18-PSS
S05
R169 Line
307 Line
SPAN STREAM AND WETLAND NO IMPACT
829-138
Tax Map ID: M0091-A00000
Townsquare Media Portsmouth LLC
292 Middle Road
TEMPORARY WETLAND IMPACT: +/-10,000 SQ.FT.
TEMPORARY WETLAND IMPACT: +/-6,840 SQ.FT.
WdA
WdE
S06
WdC
ScA
BzB
S07
WfC
Ta
EaB
WfB

U:\1956\195602676\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 330 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine Geolibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

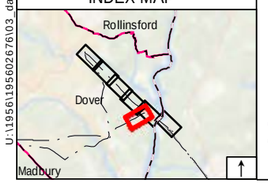
STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

R169 Line Structure Replacement
PERMIT Map Set

Dover, NH	MAP SHEET 5 of 7
Date: September 14, 2023	Stantec

INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 330 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine GeoLibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

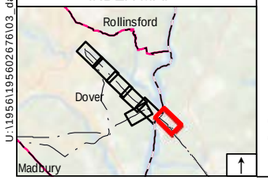
EVERSOURCE ENERGY

R169 Line Structure Replacement
PERMIT Map Set

Dover, NH	MAP SHEET 6 of 7
Date: September 14, 2023	Stantec

U:\11956\119560267\6\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 830 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- Rare Species Observation
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet

0 50 100 200 Feet

Map Notes:

Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet

Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine Geolibrary

Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

R169 Line Structure Replacement
PERMIT Map Set

Dover, NH and Eliot, ME	MAP SHEET 7 of 7
Date: September 14, 2023	Stantec

U:\11956\19560276\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

APPENDICES

Appendix A REPRESENTATIVE PHOTOGRAPHS

Photo 1. Representative view of the Cocheco River from structure 30. Stantec, June 8, 2023.

Photo 2. Representative view of the Cocheco River from Structure 29. Stantec, June 8, 2023.

Photo 3. Stream S01 flowing into Cocheco River near structure 29. Stantec, June 8, 2023.

Photo 4. Representative view of Cocheco River from structure 28. Stantec, June 8, 2023.

Photo 5. Representative view of the ROW and Wetland W05. Stantec, June 8, 2023.

Photo 6. Potential vernal pool PVP01, near structure 25. Stantec, June 8, 2023.

Photo 7. Representative view of the ROW and wetland W10 near structure 23. Stantec, June 8, 2023.

Photo 8. Representative view of the ROW and wetland W13 near structure 18. Stantec, June 8, 2023.

Photo 9. Representative view of the ROW and wetland in active pasture area near structure 14. Stantec, June 8, 2023.

Photo 10. Representative view of the ROW and open field side of wetland W18, near structure 8. Stantec, June 8, 2023.

Photo 11. Stream S05 in wetland W18 near junction of R169 and 307 line ROWs. Stantec, June 8, 2023.

Photo 12. Representative view of the ROW at the Piscataqua River, structure 5. Stantec, June 8, 2023.

Photo 13. Wetland W19 and existing access along 307 line ROW. Stantec, June 8, 2023.

Photo 14. Representative view of the ROW and wetland W21, near structure 4. Stantec, June 8, 2023.

Photo 15. Representative view of the ROW and wetland W23, near structure 3. Stantec, June 8, 2023.

Photo 16. Structure 2, near the Three Rivers Substation. Stantec, June 8, 2023.

Appendix B CORPS WETLAND DETERMINATION DATA FORMS

(Provided upon request)

Appendix C WETLANDS FUNCTIONAL ASSESSMENT WORKSHEETS

(Provided upon request)

Appendix D OBSERVED WILDLIFE

Common Name	Species Name
American crow	*Corvus brachyrhynchos*
Osprey	*Pandion haliaetus*
Eastern chipmunk	*Tamias striatus*
Red-tailed hawk	*Buteo jamaicensis*
White-tailed deer	*Odocoileus virginianus*
Wild turkey	*Meleagris gallopavo*

CITY OF DOVER, NEW HAMPSHIRE
PLANNING APPLICATION OWNER AUTHORIZATION

OWNER AUTHORIZATION

I/We hereby submit this application to the City of Dover / City of Dover Planning Board and attest that to the best of my knowledge all of the information on this application form and in the accompanying application materials and documentation is true and accurate. As applicant or as agent, I attest that I am duly authorized to act in this capacity.

Property Owner Name: Kurt Nelson

Signature(s) of Property Owner(s): _____ Date: _____

Signature of Applicant: Ackerman, Andrew Digitally signed by Ackerman, Andrew Date: 2023.12.20 22:45:10 -09'00' Date: _____
if different from owner

AUTHORIZATION TO ENTER SUBJECT PROPERTY

I/We hereby submit this application to the City of Dover Planning Board and attest that to the best of my knowledge all of the information on this application form and in the accompanying application materials and documentation is true and accurate. As applicant or as agent, I attest that I am duly authorized to act in this capacity..

Property Owner Name: Kurt Nelson

Signature(s) of Property Owner(s): _____ Date: 2023-12-20

Signature of Applicant: _____ Date: 2023-12-20
if different from owner

IF SIGN PERMIT, SIGN PERMIT APPLICATION INFORMATION

If the sign permit applicant is not the property owner, this form must be completed and included as part of application submission.

I have read this application and state that, to the best of my knowledge, the information provided is true and that the proposed sign(s) will comply with all applicable regulations in Section 170-32 of the Zoning Ordinance of the City of Dover and shall conform to the submitted materials and designs. Furthermore, after 90 days, any application still waiting information will be denied.

Address of Sign Location: _____

Sign Permit Application Type:
(check one)

- ☐ Permanent Sign
- ☐ Temporary Sign
- ☐ Community Sign

CITY OF DOVER

TECHNICAL REVIEW COMMITTEE MINUTES

Application Type:	Conditional Use Permit
Applicant(s):	Public Service Company of NH d/b/a Eversource Energy
Owner(s):	Public Service Company of NH d/b/a Eversource Energy
Location:	Project locations listed below
Date:	January 25, 2024

INTENT: Proposal is for five (5) Conditional Use Permits (CUPs) for a R169 utility transmission line structure replacement project. In total, the proposed project will create 21,249 square feet of temporary impact to the Conservation District, 56,885 square feet of temporary wetland impact, and 29,941 square feet of permanent impact to the wetland buffer.

UNITS PROPOSED: None.

AGENDA ITEMS #: 1-5

ACREAGE: N/A
(±2.48 acres of impacts)

ZONING DISTRICT: CWD, R-12, R-40, Wetland Protection, and Conservation

EXISTING LAND USE: Electric transmission line ROW

COND-2023-0063: Assessor's Map 24, Lot 133, Map N, Lots 23, 22C-8, and Map K, Lots 4-C and 2
COND-2023-0064: Assessor's Map K, Lots 1-A-0, 1-A-1, 1-B-0, Map N, Lots 18-1, 18-OP1, 18-6, and 19-5
COND-2023-0065: Assessor's Map N, Lots 19-A, 19-B, 19-C, Map K, Lots 6-C, 6-E, Map M, Lots 3, 3-A, 3-B
COND-2023-0066: Assessor's Map M, Lots 105, 105-1, 105-2, 100-A, 92-B, 93-B
COND-2023-0067: Assessor's Map M, Lots 91-C, 92-A, 92-H, 104

PROPOSED LAND USE: Electric transmission line ROW

SURROUNDING LAND USE: Varies but mostly residential

ZBA ACTION: N/A

PERMITS REQUIRED:
Five (5) City of Dover CUPs
NHDES: Alteration of Terrain; Wetlands Utility Statutory Permit by Notification; Shoreland Permit by Notification
USACE Pre-application Construction Notification; USACE Section 408 Variance to Fed. Navigation Project

WAIVERS REQUESTED:
- None at this time

ATTENDANCE:
Donna Benton, Planning
Paul Crouser, Zoning
Marn Speidel, Police
Jim Maxfield, Fire/Inspection Services
Ken Mavrogeorge, Engineering
James Burdin, Business Development
Tom Clark, Planning Board

Others:
Erin Bassegio, Assistant City Planner
Abigail Gilbert, Office of Business Development Intern
Matt Cardin, Eversource Project Manager
Andrew Ackerman, Stantec Project Manager
Jessica Hunt, Stantec
Travis Yandow, Eversource

Approval of minutes from January 4, 2024: J. Burdin moved to approve the January 4, 2024 minutes. Seconded by P. Crouser. Vote: U/A.

PLAN REVIEW:
Planning:
- Fees as applicable
- Work with PD on any traffic control
- Try to do public outreach
- Hours of work?
- Stonewall near McKone isn't a property boundary? Follow state process

Engineering:
- Be aware of any disruptions for planned routes due to the City's Portland Avenue retaining wall project near Cochecho Street.

Police:
- Provide more context to the Cochecho Street access road
- Truck routes over 26K GVWR departing Cocheco Street substation should travel outbound and use Oak Street, not Atlantic Avenue
- Who is the selected contractor?
- Please keep Police Department periodically apprised of schedule when helicopters will be used

DRAFT

Fire/Inspection Services:

- Map Sheet 2 of 5 by McKone, Clarify the Note: permission required for off ROW access.

Business Development:

- None.

Planning Board:

- None.

Next Steps: Submit for Conservation Commission and Planning Board approval.

Pause TRC at: 11:13 am

DRAFT

COND-2023-0063 **Cocheco Street to Penny Lane Transmission Line ROW**

Property ID	Location	Owner 1	Owner 2	Owner Address 1	City	State	Zip
21005-001000	1 BEACON CIRCLE	BRADBURY KAREN R & JOSEPH A KOSTER TRUST	THE BRADBURY-KOSTER FAMILY REVOCABLE TRU	1 BEACON CIRCLE	DOVER	NH	03820
21005-002000	5 BEACON CIRCLE	STEPHAN JONH MATHEW &	STEPHAN ANN CHIH-FANG	5 BEACON CIRCLE	DOVER	NH	03820
21005-009000	6 BEACON CIRCLE	KELLY NICHOLAS K & REBECCA W TRUSTEES	KELLY NICHLOLAS K AND REBECCA W REVOCABL	6 BEACON CIRCLE	DOVER	NH	03820
21005-B00000	167 HENRY LAW AV	MURPHY SHAWNA A		167 HENRY LAW AVE	DOVER	NH	03820
21005-C00000	175 HENRY LAW AV	POLYCHRONIS JOHN A TRUSTEE	POLYCHRONIS JOHN A REVOCABLE TRUST	41 BLUE HILLS DRIVE	ROCHESTER	NH	03839
21005-E00000	169 HENRY LAW AV	KEEFE LIVING TRUST	EDWARD JONES TRUST COMPANY TRUSTEE	PO BOX 31727	ST LOUIS	MO	63166
21005-F00000	177 HENRY LAW AV	PAPAIOUANNOU ATHANASIOS &	PAPAIOUANNOU MARTHA	177 HENRY LAW AVENUE	DOVER	NH	03820-3816
21026-002000	3 PENNY LN	WEBBER DANA M		3 PENNY LN	DOVER	NH	03820
21026-01A000	1 PENNY LN	FRACASSA NORM JR	FRACASSA AMY V	1 PENNY LN	DOVER	NH	03820
21070-000000	179 HENRY LAW AV	KOZLOWSKI RICHARD A		179 HENRY LAW AVENUE	DOVER	NH	03820
21071-000000	181 HENRY LAW AV	DEOLIVEIRA LUCIO	DEOLIVEIRA GRACE	181 HENRY LAW AVENUE	DOVER	NH	03820
21072-000000	28 TENNYSON AV	PETTENGILL ROBERT & MATILDE TRUSTEES	PETTENGILL FAMILY REVOCABLE TRUST	28 TENNYSON AVENUE	DOVER	NH	03820
21074-000000	30 TENNYSON AV	WATTS RICHARD E		30 TENNYSON AVENUE	DOVER	NH	03820
21075-000000	29 TENNYSON AV	MARSHALL CAROL A		29 TENNYSON AV	DOVER	NH	03820
21076-000000	31 TENNYSON AV	SLINGERLAND STEPHEN D &	PAOLA MARY ELLEN	31 TENNYSON AVENUE	DOVER	NH	03820
21077-000000	183 HENRY LAW AV	LACROIX FREDA		183 HENRY LAW AV	DOVER	NH	03820
22042-000000	TOWNE DR	CITY OF DOVER		288 CENTRAL AVE	DOVER	NH	03820
24132-000000	COCHECO ST	PUBLIC SERV CO OF N H		PO BOX 330	MANCHESTER	NH	03105-0330
24134-000000	73 COCHECO ST	TURGEON ROBERT & EVA GEN PART	TURGEON FAMILY LIMITED PARTNER	90 FLOWER DR	BARRINGTON	NH	03825-4327
24135-000000	67 COCHECO ST	MARKER 44 HOLDINGS LLC		130 CENTRAL AV	DOVER	NH	03820
25067-000000	88 COCHECO ST	JONES REMI F & CALLY G TRUSTEES	THE JONES FAMILY TRUST AGREEMENT	88 COCHECO ST	DOVER	NH	03820
25068-000000	92 COCHECO ST	GARAY VICTORIA E & JERRY E		92A COCHECO ST	DOVER	NH	03820
25069-000000	94 96 COCHECO ST	CARLETON KATHERINE M		1 WINTER ST STE 3	ROCHESSTER	NH	03867
25070-000000	98 COCHECO ST	CHRISTENBURY PARKS	CHRISTENBURY SUZANNE	98 COCHECO STREET	DOVER	NH	03820
25071-000000	100 COCHECO ST	HARTRANFT SUSI F &	MYERS STEVEN A	100 COCHECO STREET	DOVER	NH	03820
25072-000000	104 COCHECO ST	MOREAU LINDA D LIFE ESTATE &	LORD BENJAMIN	104 COCHECO STREET	DOVER	NH	03820
25073-000000	106 COCHECO ST	CHENEY DIANE MARIE		106 COCHECO STREET	DOVER	NH	03820
K0001-000000	200 HENRY LAW AV	ROUSSEAU SUSAN J	ROUSSEAU PETER	200 HENRY LAW AVENUE	DOVER	NH	03820
K0001-A00001	MCKONE LN	STATE OF NEW HAMPSHIRE	FISH AND GAME DEPT	11 HAZEN DR	CONCORD	NH	03301
K0002-A00000	170 HENRY LAW AV	CASEY TIMOTHY J	CASEY ELIZABETH M	170 HENRY LAW AVENUE	DOVER	NH	03820
K0002-B00000	178 HENRY LAW AV	LORD ELAINE &	BUNDZA JUANITA LORD	125 HENRY LAW AV	DOVER	NH	03820
K0002-B00001	HENRY LAW AV	LORD ELAINE &	BUNDZA JUANITA LORD	125 HENRY LAW AV	DOVER	NH	03820
K0002-C00000	166 HENRY LAW AV	TREMBLAY SUSAN A		166 HENRY LAW AV	DOVER	NH	03820
K0002-D00000	166 A HENRY LAW AV	KELLOGG EVAN		166 A HENRY LAW AVE	DOVER	NH	03820
K0002-E00000	180 HENRY LAW AV	GOLLEDGE CAROL C	GOLLEDGE GARY A	180 HENRY LAW AVENUE	DOVER	NH	03820
K0002-F00000	168 HENRY LAW AV	WITHAM MATTHEW K		168 HENRY LAW AV	DOVER	NH	03820
K0002-G00000	182 HENRY LAW AV	CROTEAU JEFFREY &	MCDERMOTT CAROL E	182 HENRY LAW AVE	DOVER	NH	03820
K0002-H00000	1 THOMPSON RD	TRUMBO NICOLAS R &	ZANY MICHELLE	1 THOMPSON RD	DOVER	NH	03820
K0002-I00000	2 THOMPSON RD	CARROLL TIMOTHY & MICHAEL MINION TRUSTEE	THE CARROLL-MINION REVOCABLE TRUST	2 THOMPSON RD	DOVER	NH	03820
K0002-J00000	5 THOMPSON RD	PANTELAKOS JOHN R	PANTELAKOS MARY G	PO BOX 194	DOVER	NH	03820-0194
K0002-K00000	174 HENRY LAW AV	TARDIFF CHRISTINE S &	TARDIFF GERRY C	9 BUFORD RD	PEABODY	MA	01960
K0002-M00000	176 HENRY LAW AV	DONAHUE RYAN	DONAHUE AMY	176 HENRY LAW AVENUE	DOVER	NH	03820
K0002-Q00000	HENRY LAW AV	LORD ELAINE &	BUNDZA JUANITA LORD	125 HENRY LAW AV	DOVER	NH	03820
K0003-000000	162 HENRY LAW AV	GAUTHIER NANCY P		162 HENRY LAW AVENUE	DOVER	NH	03820
K0004-B00000	HENRY LAW AV	DOVER YOUTH SOFTBALL LEAGUE		PO BOX 1929	DOVER	NH	03821
N0014-F00000	13 FAIRWAY DR	HALVORSEN TIMOTHY M &	HALVORSEN ANNE C	13 FAIRWAY DR	DOVER	NH	03820
N0014-J00000	15 FAIRWAY DR	URBANI ADAM &	URBANI ZOILA	15 FAIRWAY DR	DOVER	NH	03820
N0014-L00000	11 FAIRWAY DR	HOPKINS FRANCES G TRUSTEE	HOPKINS FRANCES G REV TRUST	130 CENTRAL AVE	DOVER	NH	03820-4042
N0022-A00000	103 COCHECO ST	MILLER MARK D & VAGTS PEGGY TRUSTEES	MILLER MARK AND VAGTS PEGGY REVOCABLE LI	103 COCHECO ST	DOVER	NH	03820
N0022-C00002	5 GERRYS LN	BABER WILLIAM S &	BABER KRISTINE M	5 GERRYS LN	DOVER	NH	03820
N0022-C00003	GERRYS LN	BREEN BETSY H &	HOPKINS KERRY E	7 GERRYS LN	DOVER	NH	03820
N0022-C00004	7 GERRYS LN	BREEN SCOTT M &	BREEN BETSY H	7 GERRYS LN	DOVER	NH	03820
N0022-C00005	6 GERRYS LN	THOMPSON THOMAS A &	THOMPSON PAMELA A	6 GERRY'S LANDING	DOVER	NH	03820
N0022-C00006	9 GERRYS LN	POPE BONNY-ELIZABETH G REV TRUST OF 200	POPE BONNY-ELIZABETH G TRUSTEE	9 GERRY'S LANDING	DOVER	NH	03820
N0022-C00007	8 GERRYS LN	POLIZZO ANN & JAMES R TRUSTEE S	POLIZZO ANN & JAMES R TRUST AGREEMENTS	1351 DUNCAN DR	THE VILLAGES	FL	32162
N0022-C00009	111 COCHECO ST	SYLVESTER PETER J &	SYLVESTER MARIE	113 COCHECO ST	DOVER	NH	03820
24133-000000	75 COCHECO ST	PUBLIC SERV CO OF N H		PO BOX 330	MANCHESTER	NH	03105-0330
K0002-000000	HENRY LAW AV	STATE OF NEW HAMPSHIRE	C/O NH FISH AND GAME	11 HAZEN DR	CONCORD	NH	03301
K0004-C00000	HENRY LAW AV	CITY OF DOVER		288 CENTRAL AV	DOVER	NH	03820
N0022-C00008	10 GERRYS LN	PRUYN ROBERT A TRUSTEE	PRUYN ROBERT A REVOCABLE TRUST	10 GERRYS LN	DOVER	NH	03820
N0023-000000	COCHECO ST	PUBLIC SERV CO OF N H		PO BOX 330	MANCHESTER	NH	03105-0330
		STANTEC	ANDREW ACKERMAN	5 DARTMOUTH DRIVE SUI	AUBURN	NH	03032

CITY OF DOVER

PLANNING BOARD - STAFF MEMO FILE #COND-2023-0064

Application Type:	Conditional Use Permit
Applicant(s):	Stantec
Owner(s):	Public Service Company of New Hampshire, d/b/a/Eversource Energy
Location:	Transmission line right of way (ROW)- McKone Ln to Eagan Dr (Map K, Lots 1-A-0, 1-A-1, 1-B-0, Map N, Lots 18-1, 18-OP1, 18-6, and 19-5)
Meeting Date:	March 12, 2024

INTENT: Proposal is to replace a deficient utility structure/pole along the R169 Electric Transmission Line creating 19,734 square feet of temporary impact to the Conservation District.

UNITS PROPOSED: N/A

AGENDA ITEM #: 4-C

ACREAGE: N/A (±742 s.f. of temporary wetland impact and 1,515 s.f. of temporary impact to the Conservation District.)

ZONING DISTRICT: R-40

EXISTING USE: Electrical Transmission line, ROW

PROPOSED USE: Electrical Transmission line, ROW

SURROUNDING USE: Varies, but mostly residential

ZBA ACTION: None

ATTACHMENTS: Application materials including site plan

APPLICATION IS COMPLETE: Yes

REGIONAL IMPACT: No

NOTICES SENT: Abutter notices were sent by certified mail to all abutters for this meeting

PERMITS REQUIRED:
Five (5) City of Dover CUPs

NHDES: Alteration of Terrain; Wetlands Utility Statutory Permit by Notification; Shoreland Permit by Notification USACE Pre-application Construction Notification; USACE Section 408 Variance to Fed. Navigation Project

WAIVERS REQUESTED: None

CONSERVATION COMMISSION:
02/12/2024

TRC: 01/25/2024

Summary of Request and Background
Eversource is proposing to replace four structures (19, 20, 21, and 22) along their existing R169 transmission line ROW in Dover. This segment of the ROW traverses a low-density residential pasture and a large forested area south of Back Road. The old wooden structures require replacement due to age, cracking, leaning, and/or woodpecker damage. The existing structures will be replaced with new weathering steel structures to provide a more reliable electrical infrastructure. In Impact Area 2, the only impacts are associated with matting needed to bridge a perennial stream (S04). This results in a temporary wetland impact over the stream itself, as well as minor, temporary wetland buffer impacts on either side of the stream, and because perennial streams are also a resource of concern within the Conservation District, there are minor temporary impacts associated with the stream buffer for S04. In the Wetland Protection District, 742 square feet of temporary impact occurs in wetlands (timber matting), and 1,802 square feet of temporary impact is proposed in the buffer. In the Conservation District, 1,515 square feet of temporary impact is proposed in the buffer as a result of the matting. There will be no ground disturbance in these areas as matting will be utilized on both sides of the stream. However, where needed, there will be pre-construction installation of erosion/sediment control BMPs and monitoring for effectiveness.

The Conservation Commission endorsed the application at their February 12, 2024 meeting. (minutes attached)

The Technical Review Committee endorsed the application at their January 25, 2024 meeting.

Consistency with Land Use Regulations – CUP 170.27.C
The Conservation District ordinance §170.27.C provides for Conditional Use Permits to allow impacts to the Conservation District if standards related to demonstration that the use is essential to the productive use of land, a soil erosion and sedimentation control plan is submitted, state and federal approvals have been applied for, and a written review by the Conservation Commission has been sought.

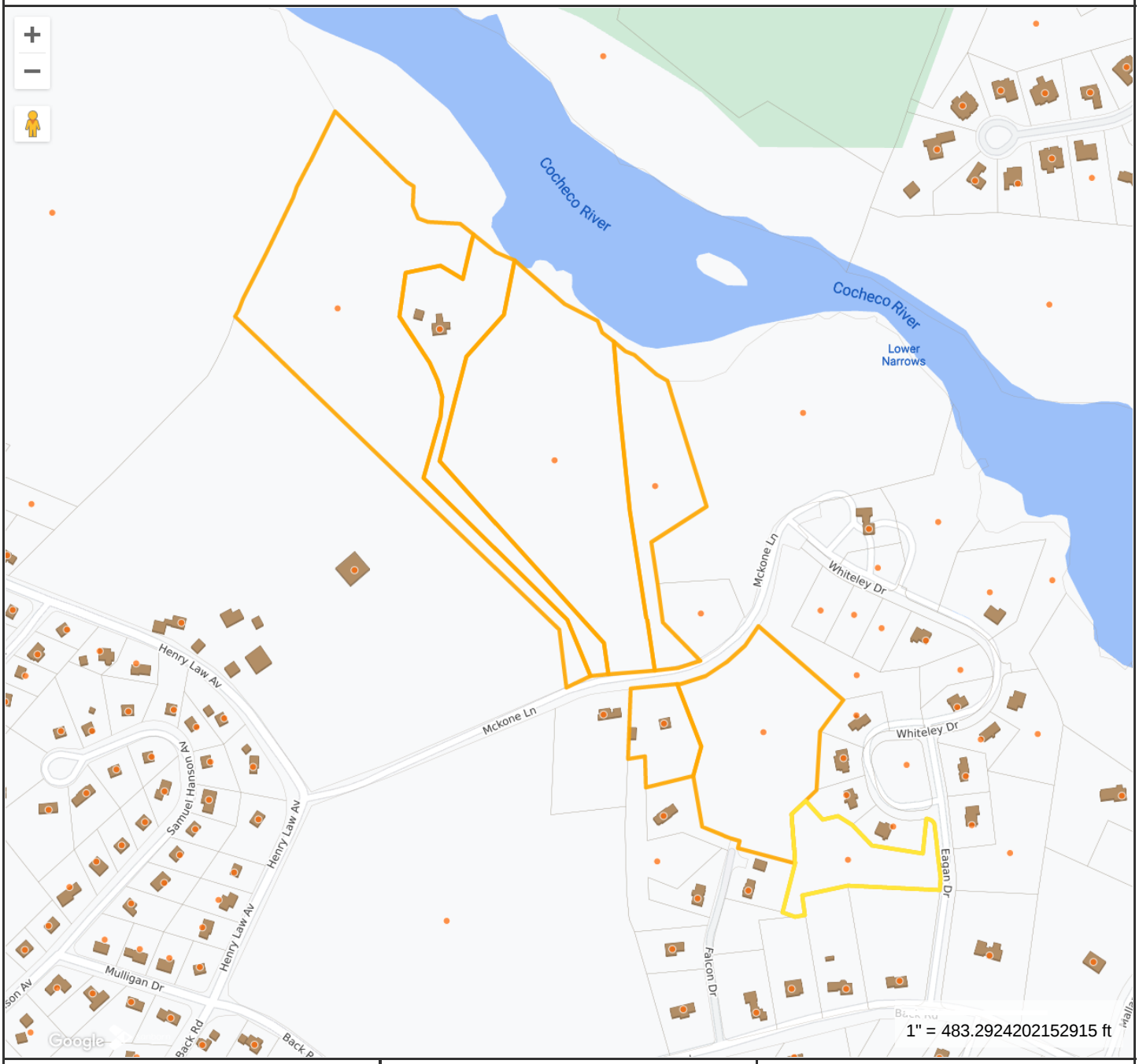
Planning Staff feels that the applicant considered the criteria and has made sufficient efforts to minimize the project's impact, noting that all impact is temporary in nature. In addition, the applicant has taken appropriate measures to mitigate any impacts and has plans in place to restore any areas of disturbance.

STAFF RECOMMENDATION:
The Planning Department recommends that the Planning Board accept the application as complete, note it is not of regional impact, hold a public hearing, make the necessary and supporting findings of fact, and vote to approve the Conditional Use Permit with subsequent conditions:

Subsequent Conditions to Be Met Prior to Issuance of a Conditional Use Permit:

1. Provide copies of NHDES permits and USACE approval.

COND-2023-0064



Property Information

Location	EAGAN DR
Owner	GARRISON COVE HOMEOWNERS ASSOCIATION
Land Use	
Zoning Code	R-40
Property Id	N0018-000OP1

MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT

City of Dover, NH makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Geometry updated 10/30/2023
Data updated Daily

Print map scale is approximate. Critical layout or measurement activities should not be done using this resource.

PERMIT SNAPSHOT REPORT COND-2023-0064
FOR CITY OF DOVER, N.H.

Permit Type	Conditional Use	**Project:**		**App Date:**	12/22/2023
Work Class:	Environmental	**District:**	None	**Exp Date:**	NOT AVAILABLE
Status:	In Review	**Square Feet:**	0.00	**Completed:**	NOT COMPLETED
Valuation:	$0.00	**Assigned To:**	Blonigen, Rachel	**Approval Expire Date:**	

Description: R169 Utility Transmission Line Structure Replacement Project is a 3.5 mile long rebuild of 18 structures within the Right-of-Way. The project involves accessing and building construction pads or placing timber matting over wetlands and sensitive fields in order to complete work.

Parcel:	K0001-A00001 Main	**Address:**	Mckone Ln Dover, 03820 Main	**Zone:**	R-12(Residential - Medium Density) CWD(Cocheco Waterfront District) R-40(Residential - Rural)

Plan Preparer	Applicant	Owner	Project Manager
Andrew W Ackerman 5 Dartmouth Dr Ste 200 Ste 200 Auburn, NH 03032 Business: (603) 877-8198	Andrew W Ackerman 5 Dartmouth Dr Ste 200 Ste 200 Auburn, NH 03032 Business: (603) 877-8198	Travis Yandow Home: (603) 634-2243 Business: (603) 634-2243	Travis Yandow Home: (603) 634-2243 Business: (603) 634-2243

Permit Custom Fields

Select Permit Type	Conservation District
What is the parcel zoned?	R-12
permitstatefed	Alteration of Terrain, Statutory Permit by Notification, Protected Shoreland PBN, USACE Sec. 408 and Pre-Construction Notification (Sec 404).

General Purpose	Alteration / Addition
New Change in Impervious/Paved Area (sq ft)	0

Project Zone	Mixed Use
Work	The project involves temporary and minor permanent impacts to Wetland Protection District buffer areas and some temporary impacts to wetlands from timber matting placement during summer/fall months. The Wetland and Conservation District overlaps in some areas of the project and therefore both districts have temporary impacts.

Attachment File Name	Added On	Added By	Attachment Group	Notes
Permit Snapshot Report.pdf	12/22/2023 17:49	Service, EnerGov		Attached by IO - ATTACH: Initial Permit Snapshot
Signature_Andrew_Ackerman_12/22/2023.jpg	12/22/2023 17:49	Ackerman, Andrew		Uploaded via CSS
2024.02.12-ConservationCommission.Minutes.pdf	02/21/2024 16:12	Blonigen, Rachel		ConCom Draft Mins
2024.03.12_PlanningBoard.Agenda.pdf	02/21/2024 16:19	Blonigen, Rachel		
2024.01.25_PlanningTechnicalReviewCommittee.Eversource_CUPs.pdf	02/23/2024 10:15	Blonigen, Rachel		Approve TRC Minutes
4. Abutters List.pdf	02/26/2024 14:52	Blonigen, Rachel		

PERMIT SNAPSHOT REPORT (COND-2023-0064)

Invoice No.	Fee		Fee Amount	Amount Paid
INV-00006272	Planning General Application Fee		$200.00	$200.00
		Total for Invoice INV-00006272	$200.00	$200.00
INV-00006919	Planning Certified Mailing to Application Contacts		$20.00	$0.00
	Planning Certified Mailing to Abutters		$230.00	$0.00
	Planning Creation / Printing of Abutter Labels		$30.00	$0.00
	Planning Public Notice in Newspaper		$120.00	$0.00
		Total for Invoice INV-00006919	$400.00	$0.00
		Grand Total for Permit	**$600.00**	**$200.00**

Workflow Step / Action Name	Action Type	Start Date	End Date
Review v.1		01/02/2024 13:26	
Confirm application complete v.1	Generic Action		01/02/2024 13:26
Conditional Use Review v.1	Receive Submittal		01/02/2024 13:26
Planning Board v.1		02/21/2024 12:10	
Planning Board Agenda v.1	Task	02/21/2024 12:10	02/26/2024 14:51
Invoice for Notices v.1	Task	02/26/2024 14:51	02/26/2024 14:51
Send Notices v.1	Task	02/26/2024 14:51	
Planner Creates Staff Recommendations v.1	Permit Activity		
Distribute Planning Board Materials v.1	Task		
Planning Board Hearing v.1	Hold Hearing		
Planning Board Decision v.1	Permit Activity		
NOD Sent to Applicant v.1	Create Report		
Issue Permit v.1			
Verify Fees Prior to Permit v.1	Generic Action		
Issue and Review Permit v.1	Generic Action		
Print and Email Permit v.1	Generic Action		
Plans uploaded to Treeno v.1	Generic Action		
Internal Notification of Plan Completion v.1	Generic Action		
Recording v.1	Task		

R169 Structure Replacement Project
Dover, New Hampshire

Conditional Use Permit Application

Part 2 of 5

December 22, 2023

Prepared for:

Public Service Company of New Hampshire d/b/a Eversource Energy
13 Legends Drive
Hooksett, NH 03106

Prepared by:

Stantec Consulting Services Inc.
30 Park Drive
Topsham, ME 04086

City of Dover, New Hampshire
CONDITIONAL USE PERMIT APPLICATION

[Revision Date: October 19, 2020]

Office Use Only	Project #:		Date Received:	
	Amount Paid:		Time Received:	

APPLICANT AND OWNER INFORMATION

Name of Applicant: Public Service Company of NH d/b/a Eversource Energy Telephone # 603-634-2243

Address of Applicant: 13 Legends Drive, Hooksett, NH 03106

E-Mail Address: Travis.Yandow@Eversource.com

Name of Property Owner (if different from applicant): same as above Telephone # same as above

Address of Property Owner: same as above

PROPERTY INFORMATION

Assessor's Map # 830-267 Lot(s) # K0001-A00001

Address of Property: Existing R169 transmission line ROW--McKone Lane to Eagan Drive, Dover, NH

Zoning District(s) R-40, R-12, CWD Overlay District(s) Wetland Protection and Conservation

Rural Residential, Medium Density, Residential, Urban Density Multi Residential, Cocheco Waterfront District

Existing Use of Property: Electric transmission line ROW

CONDITIONAL USE PERMIT INFORMATION

Type of Conditional Use Permit (Check All That Apply):

☒ Conservation District	☐ RCM Use Overlay District	☐ Gateway District
☐ Groundwater Protection	☐ Off-Street Parking and Loading	☐ Alternative Treatment Center
☒ Wetland Protection District	☐ Central Business District	☐ Heritage Residential District

Describe Proposed Use or Activity That Requires Conditional Use Permit and Describe Any Impacts:

Impact Area 2/Sheet 2: Eversource is proposing to replace four structures (19, 20, 21, and 22) along their existing R169 transmission line ROW in Dover. This segment of the ROW traverses a low density residential pasture and a large forested area south of Back Road. The old wooden structures require replacement due to age, cracking, leaning, and/or woodpecker damage. The existing structures will be replaced with new weathering steel structures to provide a more reliable electrical infrastructure. In Impact Area 2, the only impacts are associated with matting needed to bridge a perennial stream (S04). This results in a temporary wetland impact over the stream itself, as well as minor, temporary wetland buffer impacts on either side of the stream, and because perennial streams are also a resource of concern within the Conservation District, there are minor temporary impacts associated with the stream buffer for S04. In the Wetland Protection District, 742 square feet of temporary impact occurs in wetlands (timber matting), and 1,802 square feet of temporary impact is proposed in the buffer. In the Conservation District, 1,515 square feet of temporary impact is proposed in the buffer as a result of the matting. There will be no ground disturbance in these areas as matting will be utilized on both sides of the stream. However, where needed, there will be pre-construction installation of erosion/sediment control BMPs and monitoring for effectiveness. See attached application narrative and supporting documents for more details.

List Any Associated State or Federal Permits That Have Been or Will Be Applied For and Indicate Their Status: NHDES: Alteration of Terrain; Wetlands Utility Statutory Permit by Notification; Shoreland Permit by Notification; USACE Pre-application Construction Notification; USACE Section 408 Variance to Fed. Navigation Project.

Name of Professional That Prepared Plans: Tom Tetreau, NH Certified Wetland Scientist

Address 30 Park Drive, Topsham, ME 04086 Telephone #: 207-504-7231

Professional License #: 283 E-mail address: tom.tetreau@stantec.com

SIGNATURES

I/We hereby submit this application to the City of Dover Planning Board and attest that to the best of my knowledge all of the information on this application form and in the accompanying application materials and documentation is true and accurate. As applicant or as agent, I attest that I am duly authorized to act in this capacity.

Signature of Property Owner: _____ Date: 12/20/2023

Signature of Applicant (if different from owner): _____ Date: _____

Signature of Agent: _____ Date: 12/20/2023

AUTHORIZATION TO ENTER SUBJECT PROPERTY

I, and my successors, hereby authorize members of the Dover Planning Board, Planning Department and other pertinent City Departments and boards to enter my property for the purpose of evaluating this application, including performing inspections during the application phase, post-approval phase, construction phase and occupancy phase. It is understood that these individuals must use all reasonable care, courtesy, and diligence when on the property.

Signature of Property Owner: _____ Date: 12/20/2023

CITY OF DOVER CONDITIONAL USE
LIST OF ABUTTERS

Pursuant to RSA 676:4, the State Law of New Hampshire, the City of Dover is required to notify the applicant, abutters (including holders of conservation easements), and any professional whose seal is on the plan, of the public hearing by certified mail, return receipt requested. Staff will provide the abutter information, while the applicant must provide accurate contact information for the owner, applicant and professional agents representing the project.

Owner:

TAX MAP	LOT #	PROPERTY OWNER	MAILING ADDRESS
Multiple		Kurt Nelson, Eversource Energy	13 Legends Drive, Hooksett, NH 03106

Applicant (if different from owner):

APPLICANT NAME	APPLICANT COMPANY	MAILING ADDRESS

Surveyor and/or Engineer/Professional Agent:

NAME	COMPANY	MAILING ADDRESS
Tom Tetreau, NH Certified Wetland Scientist	Stantec	30 Park Drive, Topsham, ME 04086

Conservation Easement Holder:

TAX MAP	LOT #	NAME OF EASEMENT HOLDER	MAILING ADDRESS

COND-2023-0064 **MCKONE LANE**

Property ID	Location	Owner 1	Owner 2	Owner Address 1	City	State	Zip
K0001-000000	200 HENRY LAW AV	ROUSSEAU SUSAN J	ROUSSEAU PETER	200 HENRY LAW AVENUE	DOVER	NH	03820
K0001-001000	43 MCKONE LN	SURINA MATTHEW P & JENNIFER L TRUSTEES	SURINA FAMILY REVOCABLE TRUST	43 MCKONE LN	DOVER	NH	03820
K0002-000000	HENRY LAW AV	STATE OF NEW HAMPSHIRE	C/O NH FISH AND GAME	11 HAZEN DR	CONCORD	NH	03301
N0018-000OP2	MCKONE LN	AYER DANIEL & JACQUELINE REV TRUSTS	AYER DANIEL AND JACQUELINE TRUSTEES	100 MCKONE LN # A	DOVER	NH	03820-3852
N0018-000OP6	EAGAN DR	GARRISON COVE HOMEOWNERS ASSOCIATION		33 WHITELEY DR	DOVER	NH	03820
N0018-000OP7	MCKONE LN	GARRISON COVE HOMEOWNERS ASSOCIATION		33 WHITELEY DR	DOVER	NH	03820
N0018-002000	MCKONE LN	AYER DANIEL & JACQUELINE REV TRUSTS	AYER DANIEL AND JACQUELINE TRUSTEES	100 MCKONE LN # A	DOVER	NH	03820-3852
N0018-003000	MCKONE LN	STATE OF NEW HAMPSHIRE	FISH AND GAME DEPT	11 HAZEN DR	CONCORD	NH	03301
N0018-007000	WHITELEY DR	AYER DANIEL & JACQUELINE REV TRUSTS	AYER DANIEL AND JACQUELINE TRUSTEES	100 MCKONE LN # A	DOVER	NH	03820-3852
N0018-008000	WHITELEY DR	AYER DANIEL & JACQUELINE REV TRUSTS	AYER DANIEL AND JACQUELINE TRUSTEES	100 MCKONE LN # A	DOVER	NH	03820-3852
N0018-009000	WHITELEY DR	AYER DANIEL & JACQUELINE REV TRUSTS	AYER DANIEL AND JACQUELINE TRUSTEES	100 MCKONE LN # A	DOVER	NH	03820-3852
N0018-010000	46 WHITELEY DR	DULLEA ROBERT G & MARGARET A TRUSTEES	THE DULLEA FAMILY REVOCABLE TRUST	46 WHITELEY DR	DOVER	NH	03820
N0018-012000	16 WHITELEY DR	WILLIAMSON MARK D & LOIS G TRUSTEES	MARK D WILLIAMSON REVOCABLE TRUST OF 201	16 WHITELEY DRIVE	DOVER	NH	03820
N0018-013000	14 WHITELEY DR	CLODE JEFFREY B & DOROTHY I TRUSTEES	CLODE JEFFREY B & DOROTHY I FAM REV TRST	14 WHITELEY DR	DOVER	NH	03820
N0018-014000	10 WHITELEY DR	DICHTER BRIANNA &	DICHTER PATRICK	10 WHITELEY DRIVE	DOVER	NH	03820
N0018-015000	6 WHITELEY DR	BRADLEY JOHN W III	BRADLEY SUSAN	6 WHITELEY DR	DOVER	NH	03820
N0018-016000	25 EAGAN DR	ST CYR CHRISTOPHER & ROBERTS-ST CYR KARE	PARACHUTE TRUST	25 EAGAN DRIVE	DOVER	NH	03820
N0018-017000	29 EAGAN DR	MEEKS DANIEL W & BARBARA A TRUSTEES	MEEKS JOINT REV TRUST	29 EAGAN DRIVE	DOVER	NH	03820
N0019-000OPN	FALCON DR	FALCON DRIVE HOMEOWNER'S ASSOCIATION	C/O ROSS JOHN J	18 FALCON DR	DOVER	NH	03820
N0019-002000	18 FALCON DR	COOK WILLIAM F &	HERSEY SHACINA J	18 FALCON DR	DOVER	NH	03820
N0019-003000	26 FALCON DR	FLANDERS JANINE TERRY		26 FALCON DR	DOVER	NH	03820
N0019-004000	21 FALCON DR	BECK KINLEY D		21 FALCON DR	DOVER	NH	03820
N0019-A00000	174 BACK RD	THURSTON ELAINE M	THURSTON FRANK K	174 BACK ROAD	DOVER	NH	03820
N0019-B00000	180 BACK RD	SANTANA RAMIREZ RICARDO ANTONIO &	ALVAREZ SALLY SUAREZ	180 BACK RD	DOVER	NH	03820
N0019-C00000	186 BACK RD	VITKO THOMAS J & SUZANNE M TRUSTEES	VITKO ANCESTRAL GRANTOR TRUST	186 BACK RD	DOVER	NH	03820
N0021-000000	160 BACK RD	AYER JACQUELINE TRUSTEE	AYER JACQUELINE REV TRUST	100 MCKONE LN # A	DOVER	NH	03820-3852
N0021-001000	166 BACK RD	HINKLEY JOHN E & DEBORAH A TRUSTEES	HINKLEY FAMILY TRUST OF 2020	166 BACK RD	DOVER	NH	03820
K0001-A00000	38 MCKONE LN	SWANSON ROBERT &	SWANSON JESSICA J	38 MCKONE LANE	DOVER	NH	03820
K0001-A00001	MCKONE LN	STATE OF NEW HAMPSHIRE	FISH AND GAME DEPT	11 HAZEN DR	CONCORD	NH	03301
K0001-B00000	MCKONE LN	STATE OF NEW HAMPSHIRE	FISH AND GAME DEPT	11 HAZEN DR	CONCORD	NH	03301
N0018-000OP1	EAGAN DR	GARRISON COVE HOMEOWNERS ASSOCIATION		33 WHITELEY DR	DOVER	NH	03820
N0018-001000	MCKONE LN	STATE OF NEW HAMPSHIRE	FISH AND GAME DEPT	11 HAZEN DR	CONCORD	NH	03301
N0018-006000	MCKONE LN	AYER DANIEL & JACQUELINE REV TRUSTS	AYER DANIEL AND JACQUELINE TRUSTEES	100 MCKONE LN # A	DOVER	NH	03820-3852
N0019-005000	47 MCKONE LN	AYER ANTHONY P		47 MCKONE LN	DOVER	NH	03820
		STANTEC	ANDREW ACKERMAN	5 DARTMOUTH DR SUITE	AUBURN	NH	03032

Stantec Consulting Services Inc.
30 Park Drive, Topsham ME 04086-1737

December 22, 2023

Project/File: 195602676

Attention: Donna Benton
Planning Director
288 Central Avenue
Dover, NH 03820
d.benton@dover.nh.gov

Reference: Conditional Use Permit Application, Eversource Energy, R169 Structure Replacement Project, Dover, New Hampshire

Dear Ms. Benton and Planning Board Members,

On behalf of the Public Service of New Hampshire d/b/a Eversource Energy (Eversource), Stantec Consulting Services Inc. is filing five Conditional Use Permit (CUP) applications for necessary structure replacements as part of the R169 Structure Replacement Project (Project) in the City of Dover. Eversource has identified 18 existing structures along the existing R169 transmission line right-of-way (ROW) in Dover that require replacement due to deterioration from age, cracking, leaning, rot, and/or woodpecker damage.

Portions of the proposed Project are located within the Conservation District and the Wetlands Protection District, as described in the Dover Zoning Ordinance, Articles 170-27 and 170-27.1, respectively. CUPs may be granted within utility ROWs in the Conservation District in accordance with Article 170-27 Section C (1), and in the Wetlands Protection District in accordance with Article 170-27.1 Section F (1):

> "Article 170-27 Section C (1): *Conditional Use Permits may be granted by the PLANNING BOARD for the following uses within the* ***Conservation District****: (1) STREETs, roads and other access ways and utility rights-of-way, communications equipment, easements, including power lines and pipe lines, if essential to the productive use of land not so zoned and if so located and constructed as to minimize any detrimental impact of such uses upon the wetlands or other environmentally sensitive areas, where it is physically impossible to locate such ways over land not so zoned."*
>
> "Article 170-27.1 Section F (1): *Conditional use approval may be granted by the PLANNING BOARD (RSA 674:21II) after proper public notice and public hearing, for construction within the* ***Wetland Protection District*** *or buffer. Said construction may include but is not limited to, a road or other accessway, utility right-of-way, communication lines, power lines and pipelines, STRUCTUREs, and parking LOTs provided that the proposed construction complies with the following standards [emphasis added.]*

Therefore, Eversource is requesting the CUPs for activities and temporary impacts to wetland buffer areas within the Conservation District and the Wetlands Protection District and has outlined compliance with City of Dover zoning standards in the attached project narrative, which is being submitted in accordance with Articles 170-27 and 170-27.1 of the zoning ordinance. These five CUP applications (one per project map sheet) are being submitted, in total, for approximately 19,734 square feet (0.45 acres) of temporary tidal

Reference: Conditional Use Permit Application, Eversource Energy, R169 Structure Replacement Project

buffer resource impacts (to be restored) and 1,515 square feet (0.03 acres) of temporary stream buffer resource impacts (timber matting) in the Conservation District. In the Wetland Protection District, the following impacts are anticipated: approximately 56,885 square feet (1.31 acres) of temporary wetland impacts (matting), 26,838 square feet (0.62 acres) of temporary impacts within wetland buffers (matting), and 29,941 square feet (0.69 acres) of permanent impacts within upland wetland buffer areas for gravel access road and work pad construction.

The proposed work is for direct “in-kind” replacements of cracked and damaged poles, and no new pole locations are proposed within the R169 ROW in Dover. New structures will be in the same general footprint as existing and do not represent a significant footprint expansion within the Conservation District and the Wetlands Protection District or consist of substantial disturbances beyond those historically created by the transmission line. Disturbed areas will be protected with erosion and sediment control measures, and strategies will be implemented to stabilize and allow for re-vegetation of exposed soils.

This submittal includes a digital copy of each of the five CUP application packages. The filing fee of $1,000 ($200 per application x 5 CUP applications [one per project map sheet]) is included in the online submittal with this application. We understand that the City of Dover will calculate and invoice for abutter and notice fees; therefore, we have assumed these fees will be paid at a later date and have not included them with this application.

Additional state and federal wetland and shoreland permit applications are being prepared and submitted for the Project. Permit approvals will be forwarded to the City of Dover as required and/or requested.

Sincerely,

STANTEC CONSULTING SERVICES INC.

Jess S. Hunt
Senior Associate, Environmental Services
Phone: (603) 557-4662
jessica.hunt@stantec.com

Andrew Ackerman
Senior Environmental Scientist, Environmental Services
Phone: (603-413-7731
andrew.ackerman@stantec.com

Attachment: Conditional Use Permit Applications

cc. Travis Yandow and Kurt Nelson, Eversource

Conditional Use Permit Application

R169 Structure Replacement Project
Dover, New Hampshire

December 22, 2023

Prepared for:

Public Service Company of New Hampshire d/b/a Eversource Energy
13 Legends Drive
Hooksett, NH 03106

Prepared by:

Stantec Consulting Services Inc.
30 Park Drive
Topsham, ME 04086

Table of Contents

1.0 PROJECT INTRODUCTION AND PURPOSE 1

2.0 EXISTING CONDITONS 2

3.0 PROJECT DESCRIPTION AND PROPOSED CONDITIONS 3
3.1 LINE REBUILD: STRUCTURE REPLACEMENT, CONDUCTOR AND OPGW REPLACEMENT 3
3.2 ACCESS 4
3.2.1 Road Construction 4
3.2.2 Wetland and Upland Temporary Matting 4
3.2.3 Work Pad Construction 5
3.3 CONSTRUCTION SEQUENCE 5
3.4 BEST MANAGEMENT PRACTICES 6
3.4.1 Erosion and Sedimentation Control 6
3.4.2 Invasive Species Control Plan 6
3.4.3 Construction Observation and Post Construction Monitoring 6

4.0 OVERLAY ZONING DISTRICT IMPACTS AND ACTIVITIES 7
4.1 WETLAND PROTECTION DISTRICT 8
4.2 CONSERVATION DISTRICT 11
4.3 IMPACT AREAS 13
4.3.1 Impact Area 1 13
4.3.2 Impact Area 2 14
4.3.3 Impact Area 3 14
4.3.4 Impact Area 4 14
4.3.5 Impact Area 5 14

LIST OF FIGURES

Figure 1 USGS Site Location

R169 – Dover CUP Permit Map Set, Dover, NH

LIST OF APPENDICES

APPENDIX A WETLAND DELINEATION REPORT

1.0 PROJECT INTRODUCTION AND PURPOSE

Public Service Company of New Hampshire d/b/a Eversource Energy (Eversource) owns and maintains the R169 electrical transmission line that passes through Dover, New Hampshire. Eversource has identified 19 existing wooden structures that need to be replaced on the R169 line (18 in Dover, New Hampshire, and 1 in Eliot, Maine) due to age, cracking, leaning, rot, and/or woodpecker damage, which constitutes the proposed R169 Structure Replacement Project (Project). The existing wooden structures will be replaced with new, steel structures that adhere to current safety and electrical codes to provide more reliable electrical infrastructure.

The R169 Line right-of-way (ROW) begins at the Three Rivers Substation in Eliot adjacent to the Piscataqua River and traverses westerly over the river into Dover, then continues westerly through Dover approximately 3 miles for the remainder of the length of the transmission line to the Dover Substation.

Chapter 170 of the local Zoning Ordinance of the City of Dover, New Hampshire, establishes regulations and guides appropriate use of land. The existing utility ROW and proposed structure replacement activities in Dover bisect various city zoning districts, including the Rural Residential (R-40), Medium Density Residential (R-12), and Urban Density Multi Residential (RM-U) zoning districts and the Cocheco Waterfront District (CWD). The ROW and proposed Project activities also intersect two natural resource protection overlay districts—the Conservation District (per Article 170-27) and the Wetland Protection District (per Article 170-27.1). The purpose of these two overlay districts is to avoid and minimize development impacts to, and similarly conserve, local rivers, streams, wetlands, and flood-prone or steep, erosion-prone areas of Dover. The Project has taken into consideration each the objectives of these overlay districts in the development of construction plans and activities around the identified sensitive resources.

The proposed Project activities require a Conditional Use Permit (CUP) from the City of Dover (hereafter, City) Planning Board for those activities that occur within the Conservation District and the Wetland Protection District per the City's Local Zoning Ordinance (as amended, September 2022) and subsequent guidance from the City Planning and Community Development Department. This CUP application presents the applicable information associated with the Project. In addition to the 18 proposed replacement structures in Dover, Eversource previously identified five utility structures for replacement along the R169 line. A CUP application (#406-22) for the replacement of those five structures was submitted to the City in July 2022 and approved by the Planning Board on July 21, 2022. Replacement of those five structures has been completed.

In accordance with NH RSA 482-A:3 XV, routine utility maintenance work is exempt from the standard NH wetland permit process. However, Eversource is required to submit a Utility Maintenance Activity Statutory Permit-by-Notification, Shoreland Permit-by-Notification, and Alteration of Terrain permit application to the New Hampshire Department of Environmental Services (NHDES) to cover the temporary wetland impact associated with use of timber matting within wetlands required to

complete the proposed structure replacement work, impacts within the developed portions of the Protected Shoreland of the Cocheco River, and proposed upland ground disturbance.

2.0 EXISTING CONDITONS

The existing cleared R169 ROW varies from approximately 100 feet (ft) in most areas to 250 ft wide where the ROW is shared with additional transmission lines near the Piscataqua River. The Project ROW consists of Eversource fee-owned property or Eversource-controlled easements. From the Piscataqua River to the Dover Substation, the ROW traverses westerly through forested, residential, and agricultural landscapes. The ROW primarily crosses rural areas and local roads, as well as the Cocheco River and the Piscataqua River. The topography varies from flat lowlands and fields to undulating hills and steep side slopes. Elevations range from 0 to 90 ft above mean sea level. Soils within the ROW consist primarily of loam and silty loam (see attached CUP plans).

The open upland natural communities in the ROW consist of early successional shrub, sapling, and herbaceous species. Characteristic woody vegetation includes gray birch (*Betula populifolia*), quaking aspen (*Populus tremuloides*), red maple (*Acer rubrum*), sheep-laurel (*Kalmia angustifolia*), late lowbush blueberry (*Vaccinium angustifolium*), white meadowsweet (*Spiraea alba*), Allegheny blackberry (*Rubus allegheniensis*), American hazelnut (*Corylus americana*), red oak (*Quercus rubra*), and red raspberry (*Rubus idaeus*). Commonly observed herbaceous vegetation in the ROW includes little Canada mayflower (*Maianthemum canadense*), wrinkle-leaf goldenrod (*Solidago rugosa*), Canada goldenrod (*Solidago canadensis*), bracken fern (*Pteridium aquilinum*), hay-scented fern (*Dennstaedtia punctilobula*), wild strawberry (*Fragaria virginiana*), bristly dewberry (*Rubus hispidus*), Kentucky blue grass (*Poa pratensis*), and other common grass and wildflower species. Non-native invasive species such as rambler rose (*Rosa multiflora*), Japanese barberry (*Berberis thunbergii*), Morrow's honeysuckle (*Lonicera morrowii*), and glossy false buckthorn (*Frangula alnus*) are present in moderate abundance.

Stantec consulted with the New Hampshire Natural Heritage Bureau, the New Hampshire Fish and Game Department, and the US Fish and Wildlife Service as required for NHDES and US Army Corps of Engineers (USACE) permitting. There were three state-listed wildlife species, three state-listed plant species, and three federally listed wildlife species noted in the vicinity of the Project. Eversource proposes to follow agency recommendations and permit conditions as part of this Project and will conduct recommended surveys as needed.

One potential vernal pool and 23 wetlands were identified within the ROW during a delineation conducted by Stantec (Tom Tetreau, New Hampshire Certified Wetland Scientist #283) in June 2023; results of the wetland survey can be found in Appendix A.

The 307 transmission line ROW intersects the R169 ROW from the south near proposed structure 6 to the Piscataqua River; the nearby 307 line ROW will be utilized for access only. Existing access roads traverse portions of both ROWs. These access roads are unpaved with mostly a loamy sand base with occasional stretches consisting of previously installed stone. The access roads are generally 8 to 12 ft wide in most areas.

Routine vegetation maintenance is performed along the R169 ROW on an approximate 4- to 5-year cycle. The last vegetation maintenance was performed along portions of the R169 ROW in summer 2023. Trees and shrubs capable of growing to heights that could interfere with conductors are trimmed and allowed to regenerate until the next maintenance cycle. Prior to the start of construction, areas around proposed access roads and pads will need additional mowing within the ROW.

3.0 PROJECT DESCRIPTION AND PROPOSED CONDITIONS

3.1 LINE REBUILD: STRUCTURE REPLACEMENT, CONDUCTOR AND OPGW REPLACEMENT

The proposed Project includes replacement of 18 existing wooden transmission line structures along the R169 line in Dover. The replacement (new) structures will be within 10 ft of the previous structure location, with two exceptions: proposed structure 13 will be approximately 140 ft from the existing structure location to avoid wetland and impacts, and proposed structure 20 will be approximately 40 ft from the existing location. A majority of the new structures will be approximately 5 to 10 ft taller than the previous structures to comply with current electrical standards. The one structure proposed for a reduction in height is structure 27, within the shoreland of the Cocheco River, which will be reduced from the current 135 ft to 120 ft. The shorter structure allows for a reduced construction footprint and minimizes potential impacts to the sensitive shoreland area.

The structure replacement process consists of drilling holes near the existing structures and installing a caisson, also referred to as a can, below the ground surface. The new structure is installed in the can and backfilled with clean, suitable rock or gravel material. Spoils produced from drilling the hole will be disposed of in an approved upland location away from wetland areas and will be stabilized with an appropriate conservation/contractor's seed mix and weed-free straw mulch. Some replacement structures may require anchors. Anchors will be installed by excavating trenches, installing concrete block anchors, and backfilling trenches. If soil conditions allow, screw anchors may be installed to minimize ground disturbance. Temporary swamp mats (i.e., matting) will be utilized to access structures located within delineated wetlands or wetland areas that must be crossed for access. Mats will also be used on some occasions to minimize impacts to maintained yards or farmed upland areas. Once the new structure is installed and stable, the wires from the old structure will be transferred to the new structure. Old structures will be cut and removed from the ground in upland locations. To minimize ground disturbance, old structures in wetlands are typically cut flush with the ground surface. In some cases, the bottom of the old structure may be able to be pulled from the wetland with minimal disturbance to the wetland. All construction materials and old structure pieces will be removed and disposed of off-site at an approved disposal facility.

Following completion of the structure replacement and wire work, temporary timber construction mats will be removed. Disturbed wetland areas will be restored and stabilized with weed-free straw mulch. Temporarily disturbed upland areas will also be restored and stabilized through seeding and mulching. Permanently disturbed wetland buffer areas will remain as permanent features. Seed and mulch will be

applied along the shoulders and side slopes of the access roads as necessary and the established access roads will be left in place, with the exception of the area around proposed structures 27 and 28, which will be entirely restored. The work pads and new access road between proposed structures 27 and 28 will be re-contoured to the existing grade, covered with topsoil that was stockpiled during the initial grading, and stabilized with seed and mulch.

Minor tree clearing is proposed as maintenance within the existing access road off Cocheco Street and within the existing ROW near proposed structures 27 and 28 as part of the Project. The Project will submit a Protected Shoreland Permit by Notification to address proposed selectively cut trees in the upland shoreland areas.

3.2 ACCESS

The proposed Project utilizes existing access roads within the R169 line ROW and existing access within the 307 line ROW wherever possible. The majority of the existing access roads are made up of dirt or gravel areas and are proposed to be improved, as necessary, through the addition of clean stone as part of the Project to allow for construction vehicle access. Proposed access roads are shown on the attached map set. Access road entrances are located off local roadways and utilize existing entrances wherever possible. Driveways permits are not anticipated to be required from the City. There are no state-owned roads in the project area; therefore, temporary driveway permits from the New Hampshire Department of Transportation will not be required for construction. The proposed access roads were sited to minimize ground disturbance and temporary wetland impacts to the greatest extent practicable while providing safe and efficient access to the existing structures. Timber matting will be used to cross all wetland and stream resources that cannot be avoided completely.

3.2.1 Road Construction

Proposed upland access road improvements include construction of approximately 12- to 16-ft-wide gravel and stone roads within the ROW and in some cases adjacent to the ROW. The roads will provide access to existing utility structures for replacement activities. The improved access roads will provide reliable, permanent access to utility infrastructure during future maintenance or emergency repairs. Where possible, the proposed access roads will be located on top of existing dirt roads or trails. If no existing routes are available or suitable, a new road will be constructed. Minor grading may be necessary to remove large boulders and create a flat surface for the new rock or gravel.

Project plans require tree removal along the widening the existing access road off Cocheco Street to proposed structures 27 and 28 to a width of 12 ft to accommodate equipment for the structure replacements. Tree removal at this location will occur within the existing utility ROW and along the existing access road on Eversource property and will be conducted between November 1 and April 14 to avoid potential impacts to federally listed wildlife species if present.

3.2.2 Wetland and Upland Temporary Matting

Access through maintained fields and private property within uplands and delineated wetlands in the Project area will utilize temporary timber construction mats to minimize ground disturbance and prevent

rutting. Where necessary in overly saturated conditions, runners (mats placed parallel to the direction of travel) will be placed on the wetland surface prior to setting the top, perpendicular layer of mats. This will help reduce settling and overall wetland disturbance.

3.2.3 Work Pad Construction

The proposed Project includes construction of 18 structure replacement work pads approximately 100 ft by 100 ft each, with some exceptions. With the exception of work pads located within wetlands, upland work pads will be constructed using clean stone. The work pads will be top dressed with compacted 1.5- to 3-inch-diameter clean stone. After the structure replacement work is complete, restoration of upland work pads will consist of utilizing stockpiled topsoil to reduce work pads to approximately 30 ft by 60 ft. Restored areas will be stabilized with seed and mulch. Proposed work pads located in wetland areas will be constructed using temporary timber construction mats and will be removed upon completion of the work.

3.3 CONSTRUCTION SEQUENCE

The general Project construction sequence will be:

1. Installation of appropriate signage along public roads near construction entrances;
2. Installation of erosion control devices, as needed;
    a. Erosion control practices will follow the *Best Management Practices Manual for Utility Maintenance in and Adjacent to Wetland and Waterbodies in New Hampshire* (Utility BMP Manual) published by the New Hampshire Department of Natural and Cultural Resources (March 2019).
3. Placement of construction mats in wetlands for access roads and work pads;
4. Grading and improvements of upland access roads and work pads;
5. Stabilization (seed and mulch) of exposed soils on created side slopes;
6. Replacement of structures:
    a. Drill new structure holes;
    b. Install new poles and structure components;
    c. Transfer electrical lines from old structure to new structure; and
    d. Remove and haul away old structure.
7. Clean up excess/stockpiled material at work pads;
8. Smoothing/grading upland work pads and stabilizing and restoring with seed and mulch as necessary;
9. Removing construction mats from wetland areas and stabilizing/restoring disturbed wetland areas with weed-free straw mulch; and

10. Stabilization, restoration, and clean up staging areas and entrance points.

Provided necessary permits are in place and to the extent possible, work would begin in April 2024 and continue through fall 2024. Entrances, access roads, and work pads will be created prior to structure replacement work. New structure holes will likely be drilled prior to mobilization of structure replacement equipment (cranes, bucket trucks). Installing new poles and transferring wires will be completed prior to moving on to the next structure. Multiple structure replacement crews may be working in different areas to expedite the process. Removal of mats and restoration will occur as individual work areas are completed.

3.4 BEST MANAGEMENT PRACTICES

3.4.1 Erosion and Sedimentation Control

Work will be conducted in accordance with the Utility BMP Manual. Following these BMPs will minimize and avoid impacts to wetland and stream resources and the surrounding upland areas to the greatest extent practicable.

Perimeter erosion controls consisting of silt fence, straw wattles, mulch, and straw bales will be installed as necessary around the work areas to minimize potential impacts to adjacent resource areas. Water bars, also known as diversion ditches, will be installed along access roads with steep slopes, where necessary, to prevent water from traveling long distances down the road causing erosion. Water bars will direct water off the road into adjacent upland areas. Exposed soil created during construction will be stabilized with seed and mulch as soon as possible after active work in the area is complete. No equipment or material will be stored within wetland areas.

3.4.2 Invasive Species Control Plan

Due to the developed landscape surrounding the majority of the R169 line, invasive plant species occur within the ROW and were observed during field surveys. Contractors will follow the invasive species recommendations in the Utility BMP Manual to help prevent the spread of invasive species, including inspection and cleaning of equipment and contractor training. Equipment, including construction mats, brought to the Project area will be inspected by the contractor and/or environmental monitor, and if plant material or soil is present, the equipment will be cleaned and dried prior to use on the Project. Contractors will be familiar with identification of common invasive species and will be required to clean mats and equipment prior to their use elsewhere. If possible and without increasing wetland impacts, the contractors may also make slight shifts in access roads or work pads to avoid invasive species locations.

3.4.3 Construction Observation and Post Construction Monitoring

During construction, Eversource will contract an environmental monitor to perform routine construction observation visits. The environmental monitor will inspect the Project area for compliance with the Utility BMP Manual and applicable Project permits and conditions. Construction observation visits will occur at least once per week and/or after a significant rainfall (0.5 inches or greater) or snow melt event. Under the National Pollutant Discharge Elimination System, Eversource will file a Notice of Intent and

Stormwater Pollution Prevention Plan (SWPPP) under the U.S. Environmental Protection Agency's Construction General Permit. Construction observation visits and associated reporting will follow the SWPPP and Construction General Permit guidelines and be performed by a qualified individual familiar with the SWPPP, Utility BMP Manual, and Project specific permit conditions.

A series of post-construction monitoring visits in the Project area will be performed by a qualified environmental scientist to document that disturbed areas are properly stabilized and vegetation is beginning to regrow. Site restoration will be considered successful when there is at least 85% cover by native or non-invasive herbaceous plant species within the restored portions of the ROW, including restored wetland areas. This does not include gravel work pads or access roads that existed prior to construction or were created during construction, with the exception of the gravel work pads and road for proposed structures 27 and 28, which will be restored to natural grade, topsoil spread, and stabilized with seed and mulch. The environmental scientist will prepare a report following each post-construction monitoring visit that includes representative photographs and corrective actions (if applicable). Once the disturbed uplands and temporarily impacted wetlands within the Project area are determined to be permanently stabilized, post-construction monitoring will be considered complete, and a Notice of Termination will be filed under the U.S. Environmental Protection Agency's Construction General Permit.

4.0 OVERLAY ZONING DISTRICT IMPACTS AND ACTIVITIES

The ROW and proposed Project activities intersect natural resource protection overlay districts in Dover, including the Conservation District and the Wetland Protection District. The following summarizes the Project-specific components in the respective overlay districts.

Proposed temporary impacts to wetlands were minimized to the maximum extent practical during project planning. This included modifications to ROW access, reducing the size and positioning of the proposed utility poles, the utilization of timber matting and/or tracked equipment, and the location and orientation of work pads. Timber matting will be installed to completely span streams, where necessary, to avoid impacts to the stream bed and banks.

For the purposes of this CUP, resource impacts have been divided into 5 Impact Areas and corresponding map sheets, as shown per wetland and stream in the attached map set and in Table 1. Given the overlapping overlay districts and associated buffers, impacts were quantified in Table 1 below by direct resource impact and overlay district buffer impacts. The district buffers were established by taking the farthest buffer (such as when a stream channel is encompassed by a surrounding wetland, the larger Conservation District buffer was used).

Table 1: City of Dover Proposed Wetland Protection and Conservation District Impacts

District	Resource Impacts (SF)	Impact Area 1 (Map Sheet 1)	Impact Area 2 (Map Sheet 2)	Impact Area 3 (Map Sheet 3)	Impact Area 4 (Map Sheet 4)	Impact Area 5 (Map Sheet 5)
Wetland Protection District	Temporary Wetland Impact	-	742	23,279	3,188	29,676
	Temporary Wetland Buffer Impact	5,526	1,802	16,716	1,852	942
	Permanent Wetl and Buffer Impact*	-	-	29,941	-	-
Conservation District	Temporary Area Subject to Tidal Action Buffer Impact	19,734	-	-	-	-
	Temporary Stream Resource Buffer Impact	-	1,515	-	-	-
Overlapping Districts		5,526	773	-	-	-
	Total	**25,260**	**4,059**	**69,936**	**5,040**	**30,618**

*Based on 12-ft disturbance area for new gravel access
Overlapping Districts are illustrative of how much districts overlap and not part of total for each Map Sheet.

4.1 WETLAND PROTECTION DISTRICT

The Wetland Protection District includes all areas of wetlands and 50-ft wetland buffers, as defined in Dover Zoning Ordinance, Article 170-27.1. Project activities subject to a CUP that are within the Wetland Protection District are limited to temporary placement of timber mats in wetlands and at stream crossings and the creation of stone work pads and access road improvements in wetland buffer areas. New structures will be placed in the same general location as the existing structures, as described in section 3.1 above. The proposed access roads were sited along existing roads or trails wherever possible.

The Project will meet the following Wetland Protection District standards for Conditional Use Approval, as outlined in the Dover Zoning Ordinance, Article 170-27.1F(1).

(a) *Practicable Alternative: There is no practicable alternative that would have a less adverse impact on the area.*

The Project site is an existing transmission line within a utility ROW. The proposed structure replacement work is necessary to maintain reliability and safe operation of the existing R169 line. Alternative locations would require creation of a new ROW, and increased impacts to resources and the surrounding landscape and were not considered. The replacement structures must be located on the alignment of the existing transmission line and must be located within the existing ROW. The Project has been designed to reduce the footprint of the construction as much as

possible. For example, the proposed access route between structures 14 and 15 was designed to utilize a narrow upland area on the south side of the ROW to minimize wetland impacts as much as possible while maintaining required clearances for working equipment from overhead wires and adjacent tree lines. For example, in addition to reducing the height and footprint of proposed structure 27 near the Cocheco River, the Project proposes to move access roads to uplands where possible, completely restore impacted areas adjacent to the Cocheco River, smooth/grade upland work pads, and stabilize and restore with seed and mulch as necessary.

Upland work pads, other than those near the Cocheco River, are typically restored to an approximately 30-ft by 60-ft size. Topsoil pushed to the sides during the initial construction will be used to cover the work pads. Exposed soils will be stabilized with seed and mulch. Temporary construction mats will be removed from wetland areas as soon as work is complete and wetland areas will be stabilized/restored with weed-free straw mulch, if necessary. Matting will be removed in a similar manner to how it was installed.

(b) *Avoidance: The potential impacts have been avoided to the maximum extent practicable. The APPLICANT will demonstrate by plan and example that the proposed construction represents the least impacting alternative.*

The proposed structure replacements have been designed to avoid permanent fill and loss of wetland and stream areas by utilizing upland areas as much as possible and using temporary construction mats. The mats will result in minimal temporary disturbance of the shrub and herbaceous vegetation underneath, but the vegetation is expected to quickly recover following removal of the construction mats after construction is complete. Mats will be used to span streams and will not disturb streambanks or modify hydrology.

Wetlands will be protected from stormwater runoff through erosion and sedimentation control measures, and exposed soils will be stabilized in accordance with the measures discussed in Section 3.4.1. Additionally, appropriate siltation prevention measures will be implemented and inspected during construction and post-construction to prevent erosion, siltation, and turbidity. The erosion control methods and materials will follow the Utility BMP Manual. Perimeter controls (silt fence, straw bales, straw wattles, etc.) will be installed along the limits of work to protect adjacent resources and off-site area. If necessary, other BMPs including stone check dams and dewatering basins will be used to control and treat stormwater and prevent runoff to abutting or downslope properties.

The tidal wetland, wetland W02 associated with the Cocheco River, will be completely avoided by construction activities. Work will occur within the adjacent upland only, and erosion and sedimentation controls will be installed prior to ground disturbance to protect the wetland and river.

(c) *Minimization: Any unavoidable impacts have been minimized. No reasonable Alternative to the proposed construction exists which does not impact a wetland or which has less detrimental impact on a wetland. Design, construction and maintenance methods will be*

prepared by a registered engineer to minimize detrimental impacts to the wetlands and will include restoration of the site as nearly as possible to its original grade.

The Project is designed to replace existing infrastructure in an existing and maintained utility ROW. The Project does not propose any permanent impacts directly to surface waters or wetlands. Areas where district buffers are impacted have been reduced by using upland matting adjacent to wetlands in some areas and by reducing the overall footprint of structure work pads in others. Additionally, where ground disturbance and work area construction will occur near wetlands, appropriate erosion prevention measures will be implemented during construction and post-construction to prevent the migration of sediment laden runoff from reaching the adjacent wetlands. These areas will be inspected regularly for correct installation and to confirm that they remain effective erosion prevention measures.

The erosion control prevention and sediment control methods and materials will follow the Utility BMP Manual. Perimeter controls (silt fence, straw bales, straw wattles, etc.) will be used to protect adjacent resources and off-site areas. If necessary, other BMPs including stone check dams and dewatering basins will be used to control and treat stormwater and prevent runoff to abutting or downstream properties.

Temporary wetland and wetland buffer impacts will be avoided and minimized by following the Utility BMP Manual. This includes:

- Using wooden construction mats to support machinery in wetlands;
- Removing and restoring temporary impacts to wetlands, if necessary;
- Smoothing rutted areas, seeding as required, and mulching with weed-free straw;
- Using erosion and sediment controls as needed where ground disturbing activities are adjacent to wetland areas;
- Requiring contractors to follow practices outlined in the Utility BMP Manual to help prevent the spread of invasive species; and
- Conducting weekly inspections to monitor compliance with minimization measures and providing any site restoration recommendations as needed.

The new structure locations and associated structure components were designed by Eversource's engineers. Work and access roads were designed based on the results of the wetland delineation performed by a New Hampshire Certified Wetland Scientist and a constructability field review by Eversource engineers and construction personnel.

(d) Mitigation: If the APPLICANT is required by State rules to prepare a compensatory mitigation plan, the APPLICANT shall provide the Conservation Commission and PLANNING BOARD with one copy each of said plan for their review.

The Project will require temporary matting impacts to wetlands but will not result in permanent loss of any wetland area or permanent alterations to the wetland hydrology or associated vegetation; therefore, a compensatory mitigation plan is not proposed for the work in any of the

five Impact Areas. Additionally, the applicant has consulted with the NHDES Wetlands Bureau, which has concurred with the minimum impact determination for the R169 Project.

(e) *Approval for the wetlands impact has been received from the NHDES Wetlands Bureau pursuant to Section G (3), below.*

A Wetlands Utility Maintenance Activity SPN will be submitted for the Project. On November 16, 2023, Eversource met with the NHDES Wetlands Bureau and the USACE. During this meeting, a determination was made that the Project qualified for a 'minimum impact' since there are no permanent impacts to delineated wetlands, vernal pools, streams or other sensitive resources associated with the Project and Eversource will minimize temporary impacts and restore permanent upland impacts. The SPN application and NHDES and USACE permit approvals will be forwarded to the City as required and/or requested. Additional pending approvals are listed in Section 4.2 below.

4.2 CONSERVATION DISTRICT

The Conservation District includes water bodies, rivers, streams, swamps and marshes subject to tidal action and those areas within a minimum of 100 ft of each, as defined in Dover Zoning Ordinance, Article 170-27. The Conservation District also includes specific lots as defined in Article 170-27, as well as areas with slopes 20% and more than 2,000 square feet (sf) of contiguous area, neither of which is located within the Project area. Project activities subject to a CUP that are within the Conservation District are limited to temporary placement of timber mats at stream crossings and creation of stone work pads and access road improvements in river and stream buffer areas. New structures will be placed in the same general location as the existing structures. The proposed access roads were sited along existing roads or trails wherever possible.

The Project will meet the following Conservation District standards for Conditional Use Approval, as outlined in the Dover Zoning Ordinance, Article 170-27.C(2).

(a) The APPLICANT shall demonstrate that the proposed use is essential to the productive use of land not in the district; is located and constructed to minimize any detrimental impact of such use upon the surface waters or other environmentally sensitive areas, where it is physically impossible to locate such use on land not in the district; and economic advantage alone shall not be deemed a sufficient reason for such proposed use.

Approval of this CUP application would allow Eversource to maintain critical infrastructure necessary to provide the public with reliable electricity. The existing structures and line are currently located within the Conservation District and would remain as such following the structure replacements. The proposed Project is in the public's interest (versus economic advantage to Eversource) because the structure replacements will allow for the continued supply of reliable electricity to Eversource's customers. The avoidance and minimization efforts described above in section 4.1 for the Wetland Protection District also apply to the Conservation District.

(b) *A soil erosion and sedimentation control plan is submitted and followed to verify the planned avoidance of sediment pollutant runoff to bodies of water. This plan will address the following (if applicable), but should not be limited to:*

(i) stabilization of exposed soils and soil stockpiles;
(ii) protection of steep slopes from erosion;
(iii) construction site waste management;
(iv) inspection and maintenance of runoff control measures (BMPs);
(v) minimization of land clearing;
(vi) stabilization of drainage ways;
(vii) installation of perimeter controls;
(viii) installation of sediment trapping devices; and
(ix) storm drain inlet protection.

Erosion and sedimentation control practices will follow the Utility BMP Manual). Typical erosion and sedimentation controls devices used within the ROW may consist of silt fence, straw wattles, stone check dams, and/or hay and weed-free straw mulch stabilization. Erosion and sedimentation control notes and details are included on the attached map set. Approximate locations of erosion and sedimentation controls are shown around proposed work areas and access roads on the attached map set. Installation and maintenance of erosion and sedimentation controls will occur throughout the construction phase of the project. The controls will be inspected regularly by Eversource's contractors and environmental monitors and maintained and/or replaced as needed. Additional details are provided in sections 3.3 and 3.4 above.

(c) Necessary state and federal approvals have been applied for. Said permits shall be received prior to the issuance of the Conditional Use Permit by the Planning and Community Development Department.

Regulatory permits, approvals, and notifications required for the proposed Project are summarized below. The City will be provided copies of permit approvals when they are received. Given the review periods associated with some of the required permits, Eversource requests that the City condition approval of the CUP so that permit may be provided as they are received, rather than prior to the issuance of the CUP. The following state and federal permits are anticipated to be required for the Project:

- NHDES Utility Statutory Permit by Notification (submitted)
- NHDES Protected Shoreland Permit by Notification (pending submission)
- NHDES Alteration of Terrian Permit (submitted)
- USACE Pre-Construction Notification (pending submission)
- USACE Section 408 Variance Approval (pending)

(d) *A written review by the Conservation Commission of the environmental effects of the proposed use upon the area in question has been submitted. The Commission's review shall address the following, but is not limited to:*

(i) attempted avoidance of the impact;

(ii) minimization of the impact;

(iii) planned mitigation of the effects of the impact; and

(iv) efficacy of the soil erosion and sedimentation control plan.

Watercourses and surface waters have been avoided to the extent possible, and no alterations of banks or natural geomorphology are proposed. Temporary construction mats will be used to bridge, and avoid, stream areas; mats will be removed following construction. Conditions or requests for information related to environmental effects made by the local Conservation Commission will be documented and applied to the project where feasible.

4.3 IMPACT AREAS

Anticipated temporary and permanent impacts within the Conservation District and Wetland Protection District are summarized by Impact Area in Table 1 and described per area below. Each area corresponds with respective map sheets (Impact Area 1 corresponds with Map Sheet 1, etc.) in the attached CUP permit map set. Temporary impacts include timber matting and areas that will be restored post-construction, and permanent impacts within buffers are for gravel access road and work pad construction. Most of the impacts across the five impact areas (Map Sheets 1–5) occur in the Wetland Protection District and of those impacts 64% are temporary; the remaining 36% are permanent impacts in upland wetland buffer areas (see Impact Area discussions below for more details).

4.3.1 Impact Area 1

Within the Wetland Protection District, anticipated impacts in Impact Area 1 include approximately 5,526 sf of temporary impacts within wetland buffer areas of wetland W02 (overlaps 100% with areas subject to tidal action in the Conservation District), and approximately 19,734 sf of temporary impacts within the buffer area of areas subject to tidal action in the Conservation District. These temporary impacts associated with the creation of access roads and work pad construction are necessary to complete the replacement of proposed structures 27 and 28. Disturbances associated with these structure replacements will be fully restored once construction is complete, and no permanent impacts are anticipated in either District.

Impacts were avoided and minimized to the greatest extent practicable by minimizing the length of the new access road, locating access roads and work pads outside of wetland boundaries and wetland buffers, where possible, utilizing existing disturbances/access roads, and reducing the construction footprint and restoring areas along the Cocheco River shoreland that are within the Wetland Protection and Conservation Districts.

4.3.2 Impact Area 2

Within the Wetland Protection District, anticipated impacts in Impact Area 2 include approximately 742 sf of temporary wetland impacts (i.e., timber matting) and approximately 1,802 sf of temporary impacts in wetland buffer areas to cross wetland W11 and stream S04 along the access route between proposed structures 18 and 19. Within the Conservation District, approximately 1,515 sf of temporary impacts in stream buffer areas are anticipated. Overlapping buffer areas include approximately 773 sf of temporary impacts. Areas within and surrounding the Districts are existing fields and residential areas, and temporary upland matting will be used to avoid ground disturbance at the landowner's request. No permanent impacts are anticipated within either District.

4.3.3 Impact Area 3

Within the Wetland Protection District, anticipated impacts in Impact Area 3 include approximately 23,279 sf of temporary wetland impact (i.e., timber matting), approximately 16,716 sf of temporary impact in wetland buffer areas, and approximately 29,941 sf of permanent impact in wetland buffer areas to create the access road and work areas associated with proposed structures 13 through 18, across wetlands W12 through W16.

Impact Area 3 is the only Impact Area on the R169 line where upland buffer area impacts are proposed to be permanent (see Table 1 and Map Sheet 3 of 5). The permanent impacts are a result of the proposed 100-ft by 100-ft gravel work pads around proposed structures 14, 15, 16, and 18. In the case of the pads at proposed structures 14, 15, and 18, a portion of the 100-ft by 100-ft pad area will be gravel, with the remaining pad area constructed using temporary wetland matting. In these three locations, it is likely that the temporary matting will cover an even greater proportion of the pad area. Proposed structure 16 is the sole location where the entire pad is proposed to be gravel, and this location is entirely upland. No temporary or permanent impacts are anticipated within the Conservation District in Impact Area 3.

4.3.4 Impact Area 4

Within the Wetland Protection District, anticipated impacts in Impact Area 4 include approximately 3,188 sf of temporary wetland impact (i.e., timber matting) and approximately 1,852 sf of temporary impact in wetland buffer areas. Temporary impacts to wetlands and buffers include access across wetland W17 between proposed structures 9 and 10, and work areas and access in wetland W18 at proposed structure 7; no permanent impacts are anticipated due to landowner requests to use upland matting to protect existing field areas. No Conservation Districts are present in Impact Area 4.

4.3.5 Impact Area 5

Within the Wetland Protection District, anticipated impacts in Impact Area 5 include approximately 29,676 sf of temporary wetland impact (i.e., timber matting) and approximately 942 sf of temporary impact in wetland buffer areas to create work areas and access in wetland W18 associated with proposed structure 6; no permanent impacts are proposed. The Project will utilize an existing gravel access road from the 307 line ROW to proposed structure 6 to traverse through the Conservation Districts associated with

streams S05, S06, and S07 to avoid temporary and permanent impacts within those buffers. No work is proposed within the Conservation District associated with the Piscataqua River.

PHOTOGRAPHS

R169 STRUCTURE REPLACEMENT PROJECT
CUP APPLICATION - REPRESENTATIVE PHOTOGRAPHS

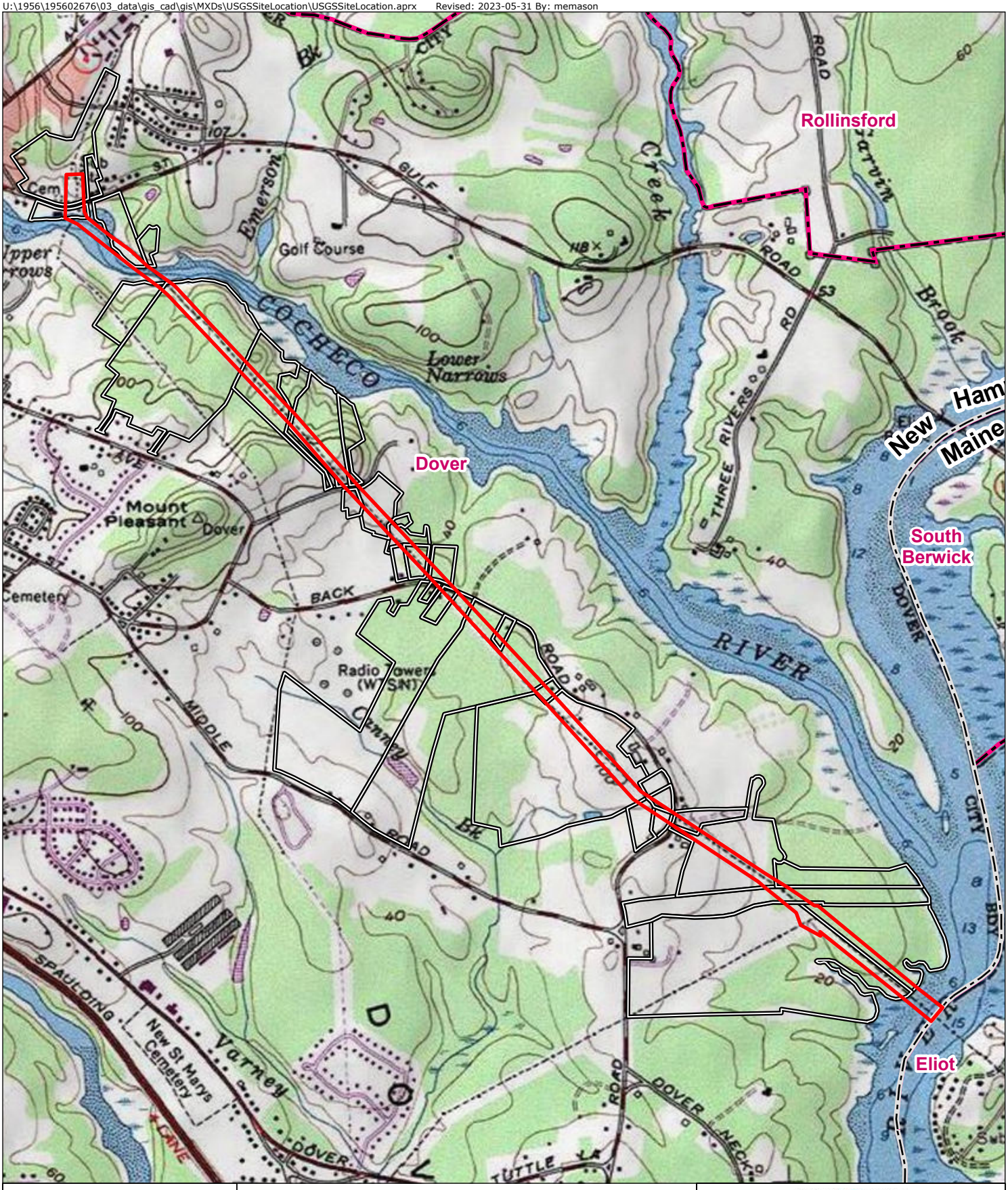
December 22, 2023

Photo 1. Representative view of upland area near proposed structure 20, above McKone Lane. Stantec. June 9, 2023.

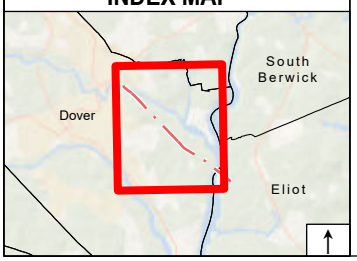
Photo 2. Representative view northwest near proposed structure 22 and wetland W05. Stantec. June 9, 2023.

FIGURES

U:\1956\195602676\03_data\gis_cad\gis\MXDs\USGSSiteLocation\USGSSiteLocation.aprx Revised: 2023-05-31 By: memason



INDEX MAP



Legend

- Approximate Project Limits
- Municipal Boundary
- State Boundary
- Abutting Parcel Boundary

N

1 inch = 1,500 Feet

0 750 1,500 Feet

EVERSOURCE ENERGY

Dover to Eliot (R169)
Structure Replacement Project

Date: May 31, 2023

Figure 1
USGS Location Map

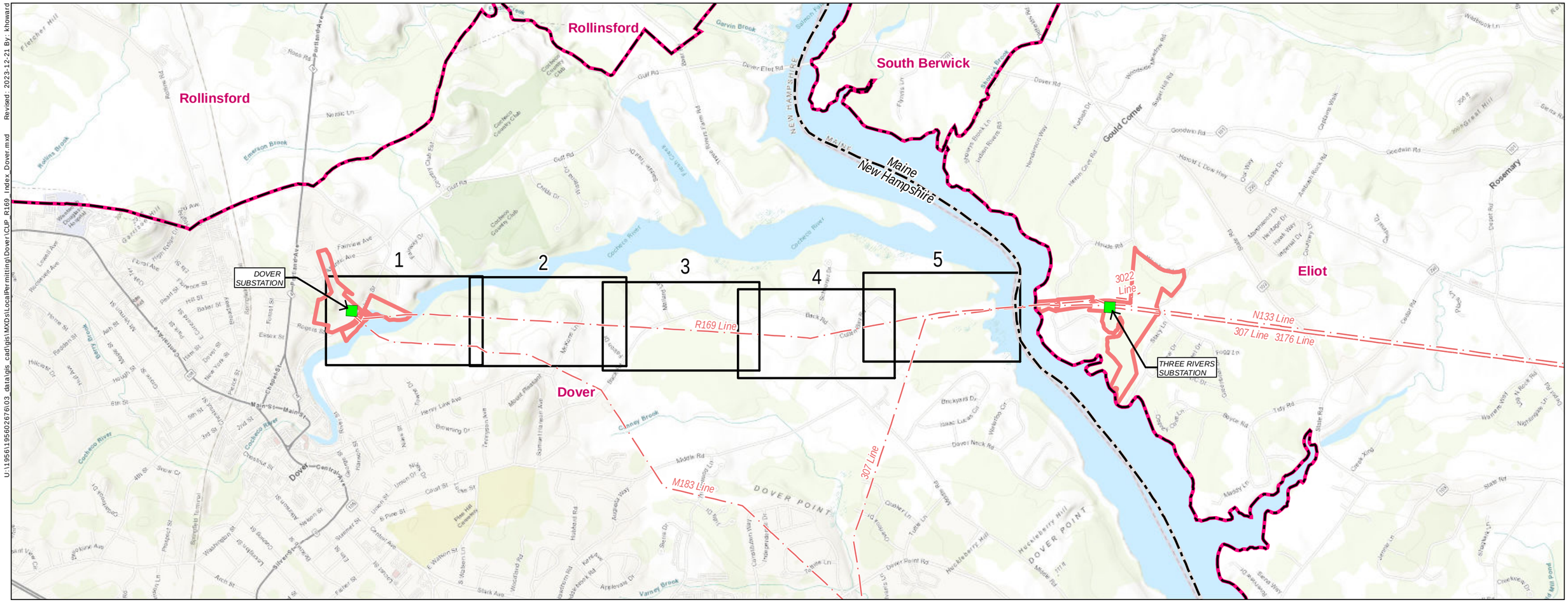
R169 Line - Structure Replacement Project

Dover, NH

Environmental Resources Map

Dover CUP Permit Map Set

Date: December 21, 2023



Legend

Substation | Municipal Boundary | State Boundary | Map Sheet | Eversource Owned Property

PREPARED FOR:

EVERSOURCE ENERGY

107 Selden Street
Berlin, CT 06037

N

0 2,000 4,000 Feet

INDEX OF FIGURES

Title Sheet / Index Map
Map Sheets 1-5

PREPARED BY:

Stantec

30 Park Drive
Topsham, ME 04086

Temporary Wetland Impact (SF)	Temporary Wetland Protection District Impact (SF)	Temporary Conservation District Impact (SF)	Permanent Wetland Protection District Impact (SF)	Permanent Conservation District Impact (SF)
742	1,802	1,515	-	-

Cocheco River

Cocheco River Wildlife Management Area

831-024
Tax Map ID: K0001-A00000
Robert Swanson
38 McKone Lane

831-025
Tax Map ID: K0001-A00001
State of New Hampshire
McKone Lane

831-022
Tax Map ID: N0018-001000
State of New Hampshire
McKone Lane

831-023
Tax Map ID: K0001-B00000
State of New Hampshire
McKone Lane

830-262
Tax Map ID: K0002-000000
State of New Hampshire
Henry Law Avenue

831-020
Tax Map ID: N0018-006000
Daniel & Jacqueline Ayer Revocable Trusts
McKone Lane

831-019
Tax Map ID: N0018-014000
Brianna Dichter
10 Whiteley Drive

831-018
Tax Map ID: N0018-000OP1
One Home Builders II LLC
Eagan Drive

831-021
Tax Map ID: N0019-005000
Anthony P Ayer
47 McKone Lane

831-017
Tax Map ID: N0019-A00000
Elaine M Thurston
174 Back Road

WHITELEY DRIVE

EAGAN DRIVE

MCKONE LANE

FALCON DRIVE

BACKROAD

W06-PEM
PVP01
GAS
W07-PSS
S02
S03
W08-PEM
W09-PEM
W10-PEM
W11-PSS
S04
Dover
R169 Line
M183 Line

CONFIGURE WORK PADS TO AVOID EXISTING STONEWALL

UTILIZE EXISTING BREACH IN STONEWALL

PERMISSION REQUIRED FOR OFF-ROW ACCESS

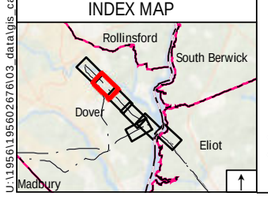
TEMPORARY WETLAND IMPACT: +/-742 SQ.FT.

SPAN STREAM NO IMPACT

UTILIZE EXISTING PAVED DRIVEWAY

STONEWALL TO BE REMOVED AND REBUILT AFTER CONSTRUCTION

INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Sediment Control Barrier (Typ.)
- Stone Work Pad
- Temporary Wetland Construction Matting
- Temporary Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 880 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- FEMA 100-Year Flood Zone
- FEMA Floodway
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- NHDES 250' Protected Shoreland
- Conservation District
- Wetland Protection District

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines provided by Eversource Energy. Wetlands, watercourses, and potential vernal pools delineated and verified by Stantec June 2023. Additional sources include: FEMA, NH Granit, Maine Geolibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery.

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

R169 Line Structure Replacement
Dover CUP Permit Map Set

Dover, NH	MAP SHEET 2 of 5
Date: December 21, 2023	Stantec

U:\11956\119560267\03_data\gis_cad\gis\MXDs\LocalPermitting\Dover\CUP_R169_MapSet_Dover.mxd Revised: 2023-12-21 By: khoward

APPENDICES

Appendix A WETLAND DELINEATION REPORT

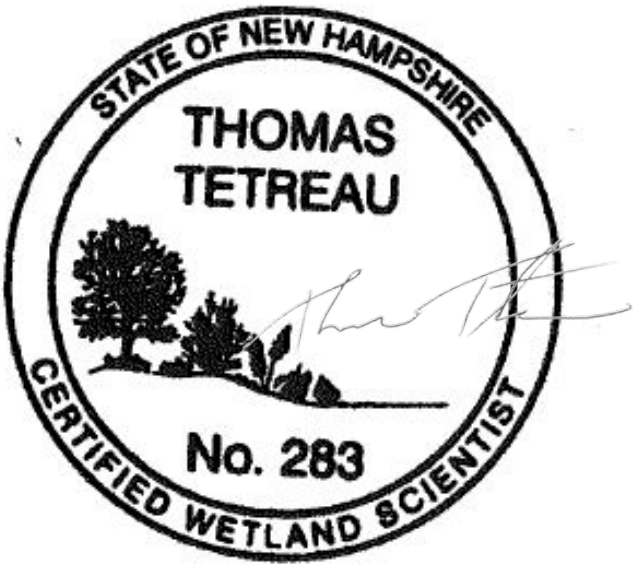
Wetland and Watercourse Delineation and Functional Assessment Report: R169 Structure Replacement Project

Dover, New Hampshire, and Eliot, Maine

September 14, 2023

Prepared for:

Eversource Energy
13 Legends Drive
Hooksett, NH 03106



Prepared by:

Stantec Consulting Services Inc.
30 Park Drive
Topsham, ME 04086

Table of Contents

1.0 INTRODUCTION 1

2.0 METHODS 1
2.1 WETLAND AND WATERCOURSE DELINEATION 1
2.2 FUNCTIONAL ASSESSMENT 2

3.0 RESULTS 3
3.1 GENERAL SITE DESCRIPTION 3
3.2 WETLAND AND WATERCOURSE DELINEATION 3
3.3 FUNCTIONAL ASSESSMENT 7

LIST OF TABLES

Table 1. Summary of Delineated Wetlands 4
Table 2. Summary of Delineated Streams 6
Table 3. Summary of Identified Vernal Pools 7
Table 4. Summary of Functional Assessment 8

LIST OF FIGURES

Permit Map Set

LIST OF APPENDICES

Appendix A Representative Photographs
Appendix B Corps Wetland Determination Data Forms (provided upon request)
Appendix C Wetlands Functional Assessment Worksheets (provided upon request)
Appendix D Observed Wildlife

1.0 INTRODUCTION

Eversource Energy (Eversource) proposes to replace approximately 20 existing transmission line structures located within the full length of the R169 Line, totaling approximately 3 miles of combined transmission line right-of-way (ROW) in Dover, New Hampshire and Eliot, Maine (Project Site; see attached Draft Map Set). Of the 20 structures proposed to be replaced, 19 are located in Dover and 1 is located in Eliot. Stantec Consulting Services Inc. (Stantec) was contracted to conduct wetland and watercourse delineations and a wetland functional assessment of the Project Site to support federal, state, and local natural resource permitting.

Stantec conducted on-site delineations within the existing ROW between June 8 and June 9, 2023. The delineations were conducted by Tom Tetreau, New Hampshire Certified Wetland Scientist #283. This report includes descriptions of the wetland and watercourse delineation methods and results.

2.0 METHODS

2.1 WETLAND AND WATERCOURSE DELINEATION

The R169 Line was previously delineated over 5 years ago, and the spatial data of these previously delineated wetlands and watercourses were used to aid in the 2023 wetland and watercourse delineation.

Wetland boundaries under local, state, and federal jurisdiction were determined using the technical criteria described in the U.S. Army Corps of Engineers (Corps) *Corps of Engineers Wetlands Delineation Manual*[1] and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Regional Supplement.*[2] Wetland communities were classified according to the *Classification of Wetlands and Deepwater Habitats of the United States.*[3] Hydric soil determinations were made in accordance with the Corps wetland delineation manuals and the *Field Indicators for Identifying Hydric Soils in New England (Version 4).*[4]

Wetland boundaries anticipated to meet state, federal, and local jurisdictional criteria were located using a Global Positioning System (GPS) receiver capable of submeter accuracy. The previously delineated

[1] Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1. U.S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, MS.
[2] U.S. Army Corps of Engineers. 2011. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Version 2.0), ed. J. S. Wakeley, R. W. Lichvar, and C. V. Noble. ERDC/EL TR-12-1. Vicksburg, MS: U.S. Army Engineer Research and Development Center.
[3] Federal Geographic Data Committee. 2013. Classification of wetlands and deepwater habitats of the United States. FGDC-STD-004-2013. Second Edition. Wetlands Subcommittee, Federal Geographic Data Committee and U.S. Fish and Wildlife Service, Washington, DC.
[4] New England Hydric Soils Technical Committee. 2017. Field Indicators for Identifying Hydric Soils in New England (Version 4).

wetland boundaries were confirmed using the GPS, with revisions to the boundaries located with the GPS as necessary.

Watercourses (e.g., streams) identified during the delineations were identified based on the definitions in NHDES Certified Administrative Rules Env-Wt 406.04, as well as the technical guidance available from the Corps on the identification of an Ordinary High Water Mark.[5] The top of each bank was mapped for streams typically over 6 feet wide, and the centerline was mapped for streams with top of bank widths up to 6 feet wide. Data was collected on flow regime, top of bank, band depth, Ordinary High Water Mark widths, dominant substrates, and evidence of biological use. GPS data were used to produce the attached map set.

The wetland delineation occurred outside the appropriate identification period for vernal pool indicator species; therefore, potential vernal pools were identified and evaluated in accordance with the *Identification and Documentation of Vernal Pools in New Hampshire.*[6] Potential vernal pools were primarily identified based on their physical characteristics and landscape position, and the presence of vernal pool indicator species, if observed. Observations of approximate size, hydrology, and evidence of disturbance were recorded. The boundaries of the potential vernal pools were located with GPS receivers, and photographs were taken of each vernal pool identified.

Priority Resource Areas (PRA), as defined in Env-Wt 103.66, were identified based on field observations and use of the Wetlands Permit Planning Tool.[7] PRAs identified along the R169 Line consisted of wetlands contiguous with tier 3 streams, tidal wetlands, and undeveloped tidal buffer zones.

2.2 FUNCTIONAL ASSESSMENT

Stantec performed a wetland functional assessment of the delineated wetlands and watercourses in accordance with New Hampshire Wetland Rules (Env-Wt 311.10). Wetland functions and values were qualitatively evaluated through direct field observation and a review of existing public data resources following the New Hampshire Method for evaluating the Ecological Integrity of the Wetlands and Streams (RSA 482-A:2, XI) and Corps *Highway Methodology Workbook Supplement.*[8] Information was collected to prepare Corps Wetland Determination Data Forms and Wetlands Functional Assessment Worksheets. Full assessments of Ecological Integrity using the New Hampshire Method is based on a series of desktop and field assessments and results in a numerical Functional Value Index for each wetland. Due to the length of the Project area, the abundance of wetlands, and the anticipated wetland impacts associated with the Project (temporary timber matting), Stantec evaluated the Ecological Integrity of each wetland using a qualitative value of low, medium, and high that considered the condition of the wetland

[5] U.S. Army Corps of Engineers. 2005. Regulatory Guidance Letter: Ordinary High Water Mark Identification. December 8, 2005. No. 05-05.

[6] Marchand, M. 2016. *Identifying and Documenting Vernal Pools in New Hampshire*. Third Edition, New Hampshire Fish and Game Department, Nongame and Endangered Wildlife Program.

[7] https://nhdeswppt.unh.edu/, accessed June 2023.

[8] U.S. Army Corps of Engineers. 1999. The Highway Methodology Workbook Supplement, Wetland Functions and Values: A Descriptive Approach. U.S. Army Corps of Engineers. New England Division. 32pp. NAEEP-360-1-30a.

relative to human-caused stressors, diversity of native vegetation, and presence of natural processes. This modified method allowed for a more consistent and streamlined approach when completing the required Wetlands Functional Assessment Worksheets. The temporary impact area (matting) listed on the Wetlands Functional Assessment Worksheets is approximate based on preliminary mapping and Project design and represents the greatest amount of impact likely to occur. Temporary wetland impacts will be minimized throughout the permitting and design process, and some of these wetland impact areas may decrease.

3.0 RESULTS

3.1 GENERAL SITE DESCRIPTION

The R169 Line is an existing transmission line that traverses forested, residential, and agricultural landscapes between the Dover Substation in Dover and the Three Rivers Substation in Eliot. The open transmission line is approximately 100 feet wide in most areas, with wider stretches, up to 250-feet wide, containing additional transmission lines in the areas around the Piscataqua River crossing. The ROW primarily crosses rural areas and town roads, as well as the Cocheco River and the Piscataqua River. The topography varies from flat lowlands and fields to undulating hills and steep side slopes. Elevations generally range between 0 and 90 feet above mean sea level.

The open upland natural communities consist of early successional shrub, sapling, and herbaceous species. Characteristic woody vegetation includes gray birch (*Betula populifolia*), quaking aspen (*Populus tremuloides*), red maple (*Acer rubrum*), sheep-laurel (*Kalmia angustifolia*), late lowbush blueberry (*Vaccinium angustifolium*), white meadowsweet (*Spiraea alba*), Allegheny blackberry (*Rubus allegheniensis*), American hazelnut (*Corylus americana*), red oak (*Quercus rubra*), and red raspberry (*Rubus idaeus*). Commonly observed herbaceous vegetation included little Canada mayflower (*Maianthemum canadense*), wrinkle-leaf goldenrod (*Solidago rugosa*), Canada goldenrod (*Solidago canadensis*), bracken fern (*Pteridium aquilinum*), hay-scented fern (*Dennstaedtia punctilobula*), wild strawberry (*fragaria virginiana*), bristly dewberry (*Rubus hispidus*), Kentucky blue grass (*Poa pratensis*), and other common grass and wildflower species. Non-native invasive species abundance was moderate compared to native vegetation and included rambler rose (*Rosa multiflora*), Japanese barberry (*Berberis thunbergii*), Morrow's honeysuckle (*Lonicera morrowii*), and glossy false buckthorn (*Frangula alnus*). Soils within the ROW consisted primarily of loam and silty loam.

3.2 WETLAND AND WATERCOURSE DELINEATION

The wetland and watercourse delineations were conducted on June 8 and June 9, 2023, under appropriate conditions during the growing season. A total of 23 wetlands, 9 unnamed watercourses, and the Cocheco River and Piscataqua River were delineated. In addition, one potential vernal pool was surveyed. The locations of the delineated wetlands, watercourses, and potential vernal pool are included on the attached Draft Map Set. Tables 1, 2, and 3 summarize the delineated wetlands, watercourses, and potential vernal pool, respectively. Representative site photographs are provided in Appendix A. Representative Corps Wetland Determination Forms are included in Appendix B.

Table 1. Summary of Delineated Wetlands

Wetland Resource Identifier	Wetland Classification[1]	Dominant and Characteristic Vegetation	Hydric Soil Indicators	Wetland Hydrology Indicators	Priority Resource Area (PRA)	Additional Comments
W001	PEM	Trees: None Saplings/Shrubs: None Herbs: broad-leaf cat-tail (*Typha latifolia*), lamp rush (*Juncus effusus*), cottongrass bulrush (*Scirpus cyperinus*), sensitive fern *(Onoclea sensibilis*), uptight sedge (*Carex stricta*)	F3: Depleted Matrix	A3: Saturation B9: Water-stained leaves	No	Ditch excavation around existing substation
W002	E2EM	Trees: none Saplings/Shrubs: none Herbs: saltwater cord grass (*Spartina alterniflora*), eastern grasswort (*Lilaeopsis chinesis*)	F3: Depleted Matrix	A1: Surface Water A2: High Water Table A3: Saturation	Yes - Tidal	Tidal wetland associated with Cocheco River. Rare plant species observed.
W003	PFO	Trees: Norway maple (*Acer plantanoides*) Saplings/Shrubs: speckled alder (*Alnus incana*) Herbs: sensitive fern, lamp rush	F3: Depleted Matrix	A3: Saturation B9: Water-stained leaves	Yes – within 100-feet of tidal areas	Stream S01 flows through wetland and into the Cocecho River.
W004	PSS	Trees: None Saplings/Shrubs: speckled alder Herbs: broad-leaf cat-tail, sensitive fern	F3: Depleted Matrix	A2: High Water Table A3: Saturation	Yes – within 100-feet of tidal areas	
W005	PSS/PEM	Trees: None Saplings/Shrubs: speckled alder Herbs: sensitive fern, broad-leaf cat-tail, lamp rush	F3: Depleted Matrix	A2: High Water Table A3: Saturation	No	
W006	PEM	Trees: none Saplings/Shrubs: red maple, speckled alder Herbs: sensitive fern, broad-leaf cat-tail, lamp rush, reed canary grass (*Phalaris arundinacea*), spotted touch-me-not (*Impatiens capensis*)	F3: Depleted Matrix	A3: Saturation	No	Contains potential vernal pool PVP01.
W007	PSS	Trees: none Saplings/Shrubs: speckled alder Herbs: sensitive fern, lamp rush, spotted touch-me-not, bluejoint (*Calamagrostis canadensis*), woodland horsetail (*Equisetum sylvaticum*)	F3: Depleted Matrix	A3: Saturation	No	Contains stream S02.
W008	PEM	Trees: none Saplings/Shrubs: speckled alder Herbs: broad-leaf cat-tail, sensitive fern, uptight sedge	F3: Depleted Matrix	A3: Saturation	No	Contains stream S03.
W009	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, lamp rush, spotted touch-me-not, purple loosestrife (*Lythrum salicaria*)	F3: Depleted Matrix	A3: Saturation	No	

Wetland Resource Identifier	Wetland Classification[1]	Dominant and Characteristic Vegetation	Hydric Soil Indicators	Wetland Hydrology Indicators	Priority Resource Area (PRA)	Additional Comments
W010	PEM/PSS	Trees: none Saplings/Shrubs: speckled alder Herbs: sensitive fern, lamp rush, woodland horsetail, bluejoint, reed canary grass	F3: Depleted Matrix	A3: Saturation	No	
W011	PSS	Trees: none Saplings/Shrubs: speckled alder, common winterberry (*Ilex verticilata*) Herbs: nodding sedge (*Carex gynandra*), sensitive fern, spotted touch-me-not, reed canary grass	F3: Depleted Matrix	A2: High Water Table A3: Saturation	No	Contains stream S04.
W012	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, bluejoint, lamp rush, broad-leaf cat-tail	F3: Depleted Matrix	A3: Saturation	No	
W013	PEM	Trees: none Saplings/Shrubs: alder Herbs: sensitive fern, broad-leaf cat-tail, lamp rush, skunk-cabbage (*Symplocarpus foetidus*)	F3: Depleted Matrix	A2: High Water Table A3: Saturation	No	
W014	PEM/PSS	Trees: none Saplings/Shrubs: red maple, speckled alder, common winterberry Herbs: sensitive fern, lamp rush, broad-leaf cat-tail, reed canary grass, wrinkle-leaf goldenrod	F3: Depleted Matrix	A3: Saturation B9: Water-stained leaves	No	
W015	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, bluejoint, steeplebush, wrinkle-leaf goldenrod, lamp rush	F3: Depleted Matrix	A3: Saturation	No	Portion of wetland within maintained lawn/yard area.
W016	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, lamp rush, uptight sedge, fowl manna grass (*Glyceria striata*), greater bladder sedge (*Carex intumescens*)	F3: Depleted Matrix	A3: Saturation	No	
W017	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, bluejoint, reed canary grass	F3: Depleted Matrix	A3: Saturation B9: Water-stained leaves	No	
W018	PSS/PEM	Trees: none Saplings/Shrubs: broad-leaf meadowsweet (*Spiraea latifolia*), coastal sweet pepperbush (*Clethra alnifolia*), speckled alder, common winterberry Herbs: sensitive fern, lamp rush, bluejoint, blue iris (*Iris versicolor)*	F3: Depleted Matrix	A3: Saturation	No	Portion of wetland is mowed hay field. Contains stream S05.

Wetland Resource Identifier	Wetland Classification[1]	Dominant and Characteristic Vegetation	Hydric Soil Indicators	Wetland Hydrology Indicators	Priority Resource Area (PRA)	Additional Comments
W019	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, lamp rush, broad-leaf cat-tail, necklace sedge (*Carex projecta*)	F3: Depleted Matrix	A3: Saturation	No	
W020	PEM/PSS	Trees: none Saplings/Shrubs: pussy willow (*Salix discolor*) Herbs: sensitive fern, bluejoint, reed canary grass, lamp rush, broad-leaf cat-tail	F3: Depleted Matrix	A3: Saturation	No	
W021	PEM	Trees: none Saplings/Shrubs: speckled alder Herbs: lamp rush, sensitive fern, cottongrass bulrush	F3: Depleted Matrix	A3: Saturation B10: Wetland drainage patterns	No (Maine)	Adjacent to Piscataqua River. Portions within mowed lawn/yard area.
W022	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, lamp rush, woodland horsetail, cottongrass bulrush	F3: Depleted Matrix	A3: Saturation	No (Maine	
W023	PSS/PEM	Trees: none Saplings/Shrubs: broad-leaf meadowsweet, speckled alder, common winterberry Herbs: sensitive fern, lamp rush, broad-leaf cat-tail	F3: Depleted Matrix	A3: Saturation B9: Water-stained leaves	No (Maine)	

[1] PEM = Palustrine Emergent, PSS = Palustrine Scrub-shrub, PUB = Palustrine Unconsolidated Bottom, PFO = Palustrine Forested, E2EM = Estuarine Intertidal Emergent

Table 2. Summary of Delineated Streams

Stream Identifier	Flow Type	Bankfull Width (ft)	Ordinary High Water Mark Width (ft)	Dominant Substrates	Additional notes
S01	Perennial	4-6	4-6	Sand, gravel, silt	Flows south through W03, into the Cocheco River
Cocheco River	Perennial/Tidal	200+	200+	Silt, gravel, mud	
S02	Intermittent	2-3	2-3	Silt, gravel	Flows across ROW toward Cocheco River
S03	Perennial	8	8	Cobbles, gravel, boulders	Flows across ROW toward Cocheco River
S04	Perennial	4	4	Silt, gravel	Flows through wetland W11 in residence area
S05	Intermittent	4	4	Silt, gravel	Flows from wetland W18 towards Piscataqua River
Piscataqua River	Perennial/Tidal	850+	850+	Silt, gravel, mud	
S06	Intermittent	3	3	Sand, silt, gravel	Flows across ROW toward Piscataqua River; flows under existing road through culvert
S07	Intermittent	4	4	Gravel, cobbles	Flows across ROW toward Piscataqua River; flows under existing road through culvert
S08	Intermittent	4	4	Silt, gravel, cobbles	Flows across ROW toward Piscataqua River; flows under existing road through culvert
S09	Ephemeral	4	5	Sand, gravel	Originates from culvert under existing road, likely only flows during heavy rain

Table 3. Summary of Identified Vernal Pools

VP Identifier	Estimated Hydroperiod	Indicator Species	Comments
PVP01	Semi-permanent	Unknown adult frogs observed	Potential old excavation adjacent to pipeline crossing of the transmission line ROW. Approximately 50-foot diameter and 1 to 2 feet deep with mucky substrate.

3.3 FUNCTIONAL ASSESSMENT

Table 4 summarizes the results of the wetland functional assessment. In general, wetlands within the Project area provide a variety of functions and values. Nutrient Trapping / Retention & Transformation, Sediment Trapping, and Wetland-dependent Wildlife Habitat were the most common functions along with Groundwater Recharge and Flood Storage.

Wetlands Functional Assessment Worksheets for wetlands proposed to be impacted by temporary timber matting are included in Appendix C. Potential vernal pools and streams were considered when performing the functional assessment of impacted wetlands, but since no impacts are proposed to potential vernal pools and streams, a full assessment of these features was not included in the Wetlands Functional Assessment Worksheets. The list of observed wildlife is included in Appendix D, and Table 1 above includes the observed vegetation.

Table 4. Summary of Functional Assessment

Wetland Resource Identifier	Wetland Functions and Values[1]													
	1 Ecological Integrity[2]	2 Educational Potential	3 Fish and Aquatic Life Habitat	4 Flood Storage	5 Groundwater Recharge	6 Noteworthiness	7 Nutrient Trapping / Retention & Transformation	8 Production Export	9 Scenic Quality	10 Sediment Trapping	11 Shoreline Anchoring	12 Uniqueness/ Heritage	13 Wetland-based Recreation	14 Wetland-dependent Wildlife Habitat
W001	Low			X			P	X		X				
W002	High		P	P		P	P	X		X	P	X		X
W003	Moderate			P			X	X		X	X			X
W004	Moderate			P			X	X		X	P			X
W005	Moderate			P	X		X	X		X				X
W006	Moderate				P		X	X		X				P
W007	Moderate			X	P		X	X		X	P			X
W008	Moderate			X	P		X	X		X	P			X
W009	Low				P		X	X		X				X
W010	Moderate			X	P		X	X		X				X
W011	Moderate		X	X	X		X	X		X	P			X
W012	Low				X		P	X		X				X
W013	Moderate			X	X		P	X		X				X
W014	Moderate			X	X		P	P		X				X
W015	Low				X		X	X		P				X
W016	Low				X		P	X		X				X
W017	Moderate						X	P		X				X
W018	Moderate			X	X		P	X		X				X
W019	Low						P	X		P				X
W020	Low						P	X		P				X
W021	N/A, Maine			P	X		X	X		P				X
W022	N/A, Maine				X		X	X		P				X
W023	N/A, Maine			X	P	X	X	X		P				X

X = Function observed within wetland, P = Principal Function

[1] Corps Highway Methodology Workbook Supplement

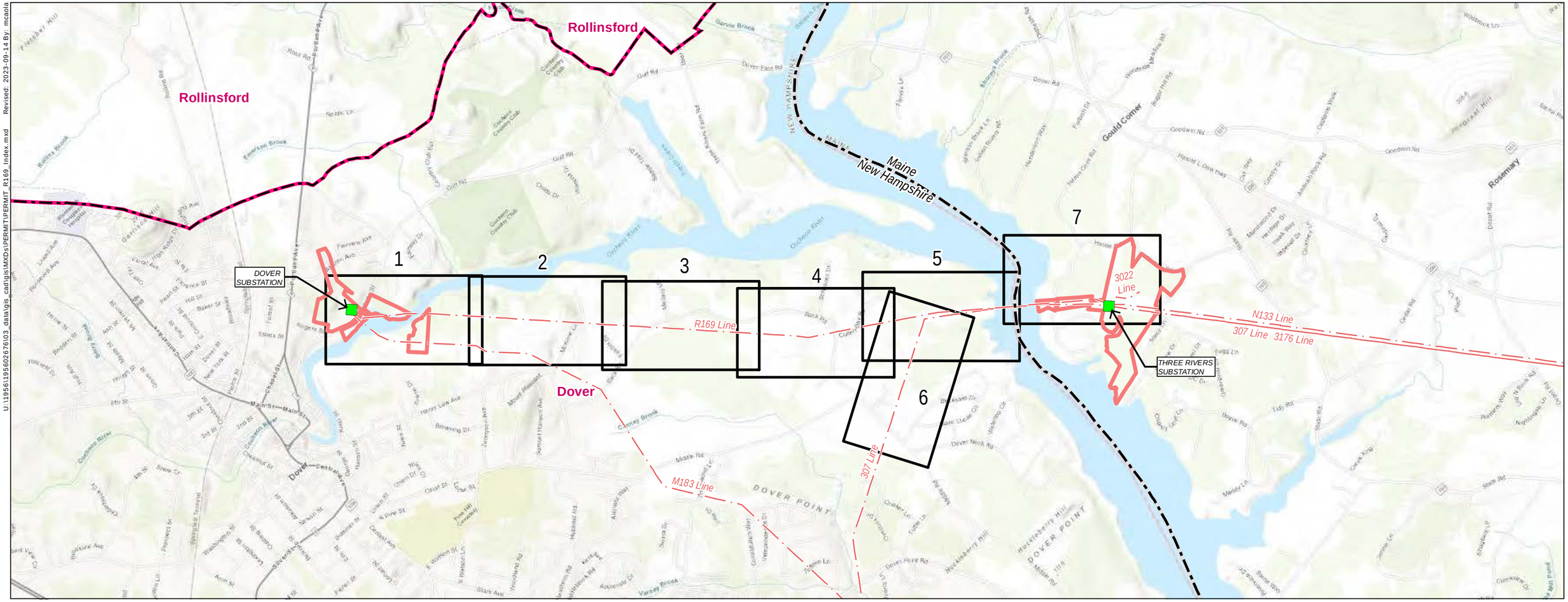
[2] Method for the Comparative Evaluation of Nontidal Wetlands in New Hampshire

FIGURES

R169 Line - Structure Replacement Project

Dover, NH and Eliot, ME
Environmental Resources Map
PERMIT Map Set
Date: September 14, 2023

U:\119561195602676\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_Index.mxd Revised: 2023-09-14 By: mcaola



Legend

Substation | Municipal Boundary | State Boundary | Map Sheet | Eversource Owned Property

N

0 2,000 4,000 Feet

PREPARED FOR:

EVERSOURCE ENERGY

107 Selden Street
Berlin, CT 06037

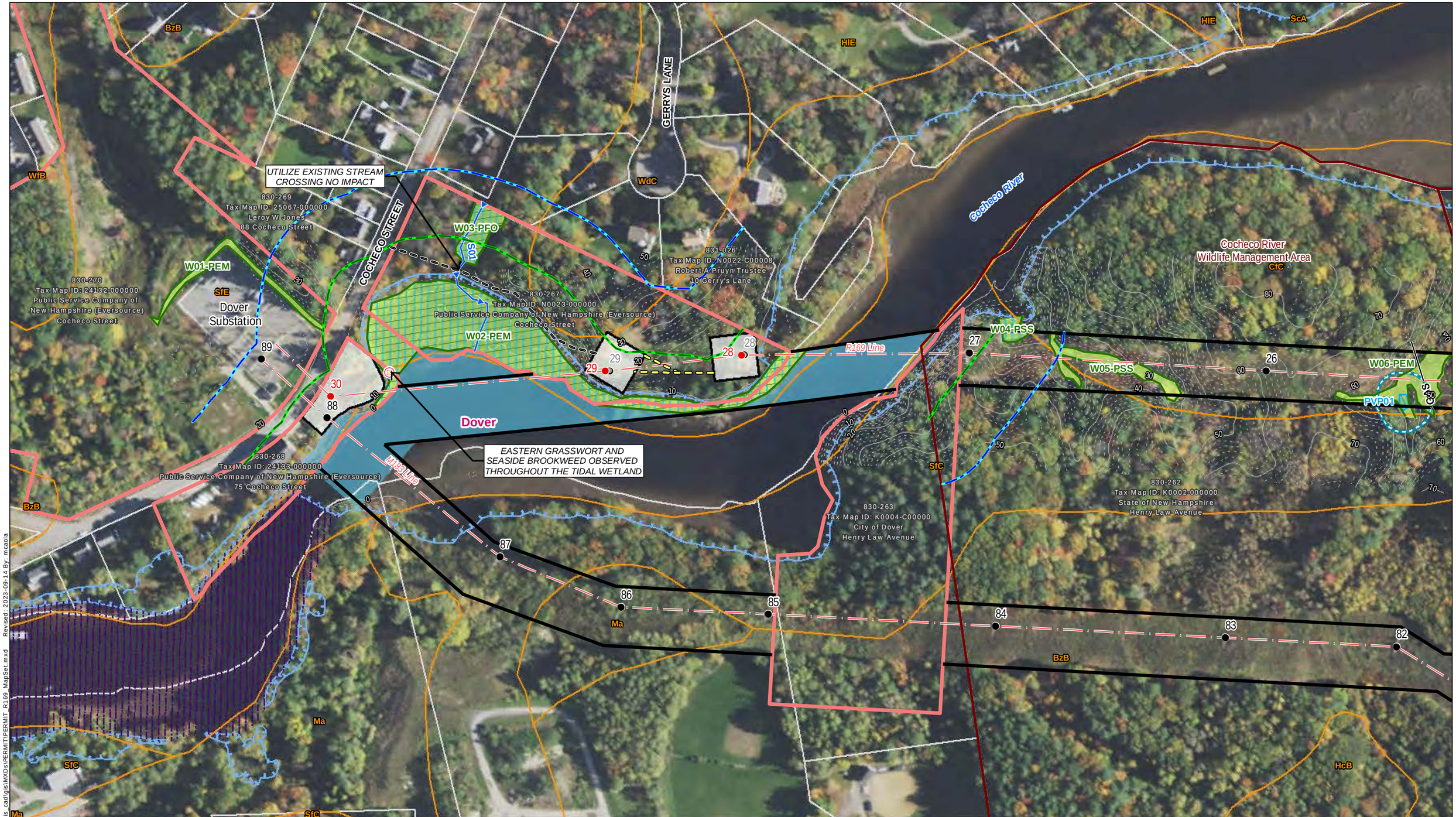
INDEX OF FIGURES

Title Sheet / Index Map
NRCS Soils Table
Map Sheets 1-7

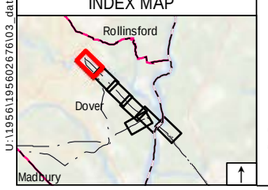
PREPARED BY:

Stantec

30 Park Drive
Topsham, ME 04086



INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 830 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine Geolibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

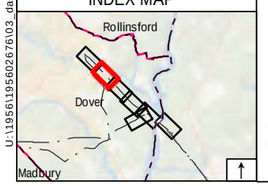
R169 Line Structure Replacement
PERMIT Map Set

Dover, NH	MAP SHEET 1 of 7
Date: September 14, 2023	Stantec

U:\19560\19560267\603_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

Dover
Cocheco River
Cocheco River Wildlife Management Area
831-022
Tax Map ID: N0018-001000
State of New Hampshire
McKone Lane
831-024
Tax Map ID: K0001-A00000
Robert Swanson
38 McKone Lane
831-025
Tax Map ID: K0001-A00001
State of New Hampshire
McKone Lane
831-023
Tax Map ID: K0001-B00000
State of New Hampshire
McKone Lane
830-262
Tax Map ID: K0002-000000
State of New Hampshire
Henry Law Avenue
831-020
Tax Map ID: N0018-006000
Daniel & Jacqueline Ayer Revocable Trusts
McKone Lane
831-019
Tax Map ID: N0018-014000
Brianna Dichter
10 Whiteley Drive
831-018
Tax Map ID: N0018-000OP1
One Home Builders II LLC
Eagan Drive
831-021
Tax Map ID: N0019-005000
Anthony P Ayer
47 McKone Lane
831-017
Tax Map ID: N0019-A00000
Elaine M Thurston
174 Back Road
WHITELEY DRIVE
EAGAN DRIVE
MCKONE LANE
FALCON DRIVE
BACKROAD
W06-PEM
PVP01
W07-PSS
W08-PEM
W09-PEM
W10-PEM
W11-PSS
SPAN STREAM NO IMPACT
CONFIGURE WORK PADS TO AVOID EXISTING STONEWALL
UTILIZE EXISTING BREACH IN STONEWALL
STONEWALL TO BE REMOVED AND REBUILT AFTER CONSTRUCTION
UTILIZE EXISTING PAVED DRIVEWAY
TEMPORARY WETLAND IMPACT: +/-742 SQ.FT.
R169 Line
M183 Line
ScA
HeD
HcC
SfC
WfB
HcB
DeA
HcD
CfC
CsD
CsB
WfC
HdD
BzB
HdC
HcB
ScB
HdB
WdB
82
81
80
79
78
8.5
25
24
23
22
21
20

INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 830 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine GeoLibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

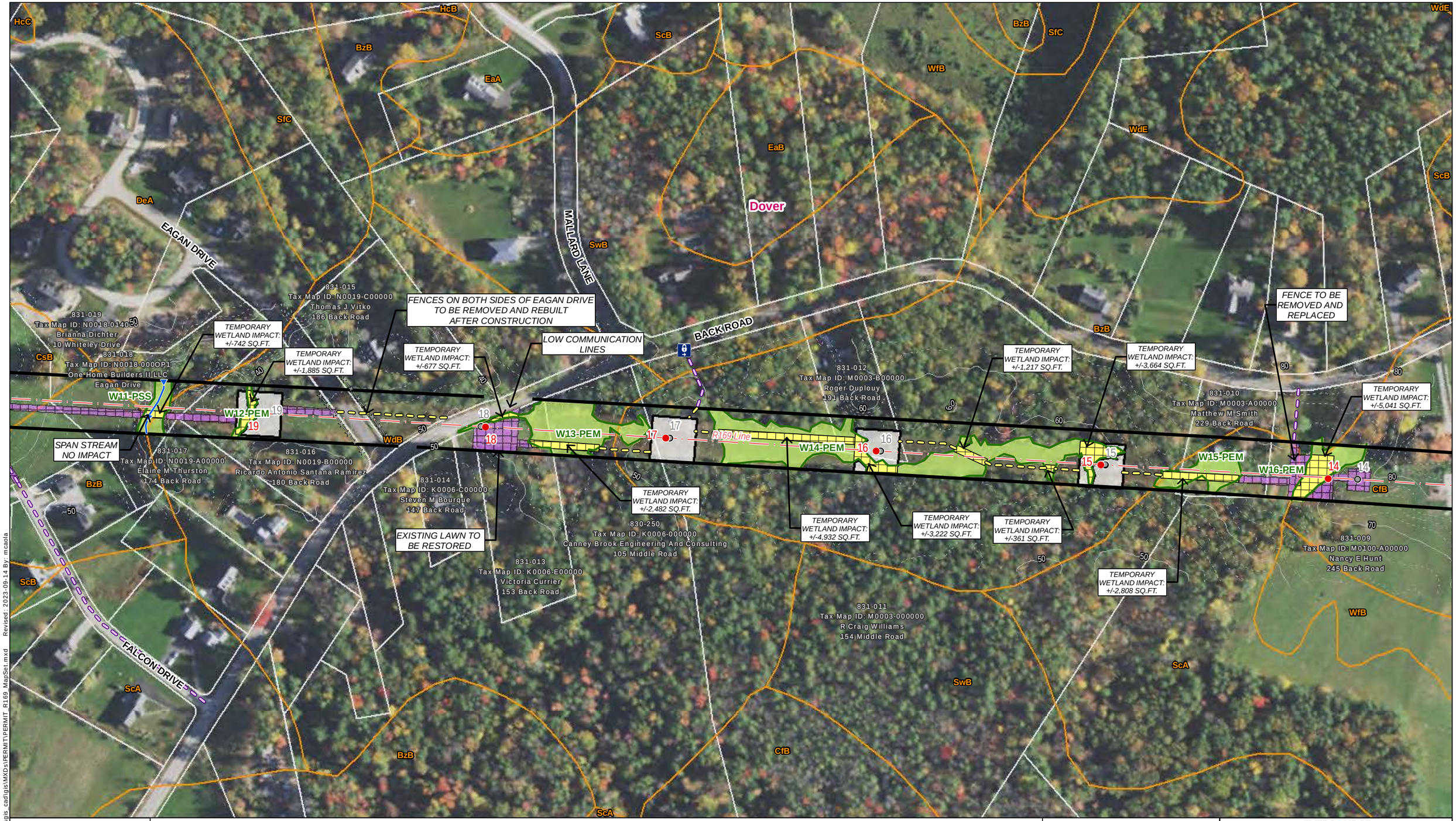
STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

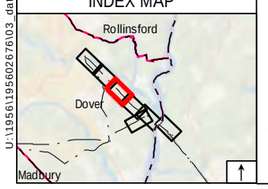
R169 Line Structure Replacement
PERMIT Map Set

Dover, NH	MAP SHEET 2 of 7
Date: September 14, 2023	Stantec

U:\119561195602676\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola



INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 830 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine Geolibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

R169 Line Structure Replacement
PERMIT Map Set

Dover, NH	MAP SHEET 3 of 7
Date: September 14, 2023	Stantec

U:\11956\11956026761\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

FENCE TO BE REMOVED AND REPLACED

TEMPORARY WETLAND IMPACT: +/-926 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-1,452 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-810 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-3,188 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-10,000 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-6,840 SQ.FT.

ACCESS FROM BACK ROAD

EXISTING LAWN TO BE RESTORED

SCHOONER DRIVE

CULLEN BAY ROAD

BACK ROAD

Dover

R169 Line

W16-PEM

W17-PEM

W18-PSS

831-008
Tax Map ID: M0100-B00000
Gregory W Hunt
295 Back Road

831-007
Tax Map ID: M0105-002000
Christopher D Berg
303 Back Road

831-004
Tax Map ID: M0093-B00000
Nancy Magiaras
362 Back Road

831-003
Tax Map ID: M0092-B00000
Cullen Bay Homeowners Association
Cullen Bay Road

831-005
Tax Map ID: M0105-000000
Eric W Thompson
321 Back Road

831-009
Tax Map ID: M0100-A00000
Nancy E Hunt
245 Back Road

831-006
Tax Map ID: M0105-001000
William C & Nancy Hunt Trustees
Back Road

831-001
Tax Map ID: M0092-A00000
Patricia Langs
Back Road

829-138
Tax Map ID: M0091-A00000
Townsquare Media Portsmouth LLC
292 Middle Road

WdE WdB BzB ScB CfB HcB WfB ScA SwB SfC HcC

INDEX MAP

Rollinsford
Dover
Madbury

Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 830 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine Geolibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

R169 Line Structure Replacement
PERMIT Map Set

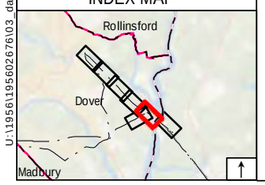
Dover, NH	MAP SHEET 4 of 7
Date: September 14, 2023	Stantec

U:\11956\19560267\6\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

SfC
HaA
WdB
SfC
WfB
SfC
DeB
CULLEN BAY ROAD
CULLEN BAY ROAD
Dover
Piscataqua River
Maine
New Hampshire
829-139
Tax Map ID: M0104-000000
Alan G. Dexter Trustee
Back River Road
831-001
Tax Map ID: M0092-A00000
Patricia Langs
Back Road
WdB
TEMPORARY WETLAND IMPACT: +/-2,022 SQ.FT.
831-002
Tax Map ID: M0092-H00000
Marie V Hebert Trustee
Cullen Bay Road
ScB
TEMPORARY WETLAND IMPACT: +/-10,000 SQ.FT.
831-003
Tax Map ID: M0092-B00000
Cullen Bay Homeowners Association
Cullen Bay Road
W18-PSS
S05
R169 Line
307 Line
SPAN STREAM AND WETLAND NO IMPACT
829-138
Tax Map ID: M0091-A00000
Townsquare Media Portsmouth LLC
292 Middle Road
TEMPORARY WETLAND IMPACT: +/-10,000 SQ.FT.
TEMPORARY WETLAND IMPACT: +/-6,840 SQ.FT.
WdA
WdE
S06
WdC
ScA
BzB
S07
WfC
Ta
EaB
WfB

U:\1956\195602676\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 330 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine Geolibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

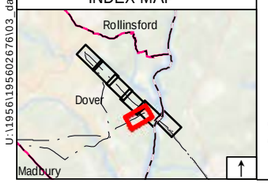
STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

R169 Line Structure Replacement
PERMIT Map Set

Dover, NH	MAP SHEET 5 of 7
Date: September 14, 2023	Stantec

INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 330 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine GeoLibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

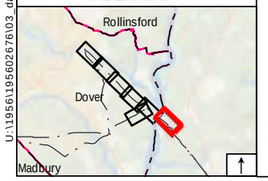
EVERSOURCE ENERGY

R169 Line Structure Replacement
PERMIT Map Set

Dover, NH	MAP SHEET 6 of 7
Date: September 14, 2023	Stantec

U:\11956\119560267\6\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 830 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- Rare Species Observation
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet

0 50 100 200 Feet

Map Notes:

Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet

Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine Geolibrary

Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

R169 Line Structure Replacement
PERMIT Map Set

Dover, NH and Eliot, ME	MAP SHEET 7 of 7
Date: September 14, 2023	Stantec

U:\11956\19560276\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

APPENDICES

Appendix A REPRESENTATIVE PHOTOGRAPHS

Photo 1. Representative view of the Cocheco River from structure 30. Stantec, June 8, 2023.

Photo 2. Representative view of the Cocheco River from Structure 29. Stantec, June 8, 2023.

Photo 3. Stream S01 flowing into Cocheco River near structure 29. Stantec, June 8, 2023.

Photo 4. Representative view of Cocheco River from structure 28. Stantec, June 8, 2023.

Photo 5. Representative view of the ROW and Wetland W05. Stantec, June 8, 2023.

Photo 6. Potential vernal pool PVP01, near structure 25. Stantec, June 8, 2023.

Photo 7. Representative view of the ROW and wetland W10 near structure 23. Stantec, June 8, 2023.

Photo 8. Representative view of the ROW and wetland W13 near structure 18. Stantec, June 8, 2023.

Photo 9. Representative view of the ROW and wetland in active pasture area near structure 14. Stantec, June 8, 2023.

Photo 10. Representative view of the ROW and open field side of wetland W18, near structure 8. Stantec, June 8, 2023.

Photo 11. Stream S05 in wetland W18 near junction of R169 and 307 line ROWs. Stantec, June 8, 2023.

Photo 12. Representative view of the ROW at the Piscataqua River, structure 5. Stantec, June 8, 2023.

Photo 13. Wetland W19 and existing access along 307 line ROW. Stantec, June 8, 2023.

Photo 14. Representative view of the ROW and wetland W21, near structure 4. Stantec, June 8, 2023.

Photo 15. Representative view of the ROW and wetland W23, near structure 3. Stantec, June 8, 2023.

Photo 16. Structure 2, near the Three Rivers Substation. Stantec, June 8, 2023.

Appendix B CORPS WETLAND DETERMINATION DATA FORMS

(Provided upon request)

Appendix C WETLANDS FUNCTIONAL ASSESSMENT WORKSHEETS

(Provided upon request)

Appendix D OBSERVED WILDLIFE

Common Name	Species Name
American crow	*Corvus brachyrhynchos*
Osprey	*Pandion haliaetus*
Eastern chipmunk	*Tamias striatus*
Red-tailed hawk	*Buteo jamaicensis*
White-tailed deer	*Odocoileus virginianus*
Wild turkey	*Meleagris gallopavo*

CITY OF DOVER, NEW HAMPSHIRE
PLANNING APPLICATION OWNER AUTHORIZATION

OWNER AUTHORIZATION

I/We hereby submit this application to the City of Dover / City of Dover Planning Board and attest that to the best of my knowledge all of the information on this application form and in the accompanying application materials and documentation is true and accurate. As applicant or as agent, I attest that I am duly authorized to act in this capacity.

Property Owner Name: Kurt Nelson

Signature(s) of Property Owner(s): _____ Date: _____

Signature of Applicant: Ackerman, Andrew Digitally signed by Ackerman, Andrew Date: 2023.12.20 22:45:10 -09'00' Date: _____
if different from owner

AUTHORIZATION TO ENTER SUBJECT PROPERTY

I/We hereby submit this application to the City of Dover Planning Board and attest that to the best of my knowledge all of the information on this application form and in the accompanying application materials and documentation is true and accurate. As applicant or as agent, I attest that I am duly authorized to act in this capacity..

Property Owner Name: Kurt Nelson

Signature(s) of Property Owner(s): _____ Date: 2023-12-20

Signature of Applicant: _____ Date: 2023-12-20
if different from owner

IF SIGN PERMIT, SIGN PERMIT APPLICATION INFORMATION

If the sign permit applicant is not the property owner, this form must be completed and included as part of application submission.

I have read this application and state that, to the best of my knowledge, the information provided is true and that the proposed sign(s) will comply with all applicable regulations in Section 170-32 of the Zoning Ordinance of the City of Dover and shall conform to the submitted materials and designs. Furthermore, after 90 days, any application still waiting information will be denied.

Address of Sign Location: _____

Sign Permit Application Type:
(check one)

- ☐ Permanent Sign
- ☐ Temporary Sign
- ☐ Community Sign

CITY OF DOVER

PLANNING BOARD - STAFF MEMO FILE #COND-2023-0065

Application Type:	Conditional Use Permit
Applicant(s):	Stantec
Owner(s):	Public Service Company of New Hampshire, d/b/a/Eversource Energy
Location:	Transmission line right of way (ROW)- Falcon Dr. to Back Rd. (Map N, Lots 19-A, 19-B, 19-C, Map K, Lots 6-C, 6-E, Map M, Lots 3, 3-A, 3-B)
Meeting Date:	March 12, 2024

INTENT: Proposal is to replace a deficient utility structure/pole along the R169 Electric Transmission Line creating 23,279 s.f. of temporary wetland impact and 29,279 s.f. of temporary impact to the wetland buffer.

UNITS PROPOSED: N/A

AGENDA ITEM #: 4-D

ACREAGE: N/A (±742 s.f. of temporary wetland impact and 1,515 s.f. of temporary impact to the Conservation District.)

ZONING DISTRICT: R-40

EXISTING USE: Electrical Transmission line, ROW

PROPOSED USE: Electrical Transmission line, ROW

SURROUNDING USE: Varies, but mostly residential

ZBA ACTION: None

ATTACHMENTS: Application materials including site plan

APPLICATION IS COMPLETE: Yes

REGIONAL IMPACT: No

NOTICES SENT: Abutter notices were sent by certified mail to all abutters for this meeting

PERMITS REQUIRED:
Five (5) City of Dover CUPs

NHDES: Alteration of Terrain; Wetlands Utility Statutory Permit by Notification; Shoreland Permit by Notification USACE Pre-application Construction Notification; USACE Section 408 Variance to Fed. Navigation Project

WAIVERS REQUESTED: None

CONSERVATION COMMISSION: 02/12/2024

TRC: 01/25/2024

Summary of Request and Background
Eversource is proposing to replace six structures (13, 14, 15, 16, 17, and 18) along their existing R169 utility transmission line in Dover. These wooden structures require replacement due to age, cracking, leaning, and/or woodpecker damage. The existing structures will be replaced with new weathering steel structures to provide a more reliable electrical infrastructure. The six new structures require construction of both work pads and access roads. In wetland areas, timber matting is used to minimize impacts of work over these sensitive resources. In Area 3, the only impacts are within the Wetland Protection District. In the Wetland District, 23,279 square feet of temporary impact is proposed in the wetland areas as a result of matting for work pads at structures 13, 14, 15, 17, and 18. Approximately 16,716 square feet of temporary impact and 29,941 square feet of permanent impact, is proposed in the wetland buffer areas as a result of the upland disturbance caused by gravel work pads and connecting access roads--primarily around structures 14, 15, and 16. These areas will likely require preconstruction erosion/sediment control BMPs, and monitoring throughout for effectiveness. The gravel area around pads will also
be reduced, topsoil spread over gravel areas, and mulched and re-seeded.

The Conservation Commission endorsed the application at their February 12, 2024 meeting. (minutes attached)

The Technical Review Committee endorsed the application at their January 25, 2024 meeting.

Consistency with Land Use Regulations – CUP 170.27.1.-F
The Conservation District ordinance §170.27.1-F provides for Conditional Use Permits to allow impacts to the Wetlands Protection District if standards related to demonstration that no practicable alternative is available, avoidance, minimization, mitigation has been sought and approval of the wetlands impact from NHDES Wetlands Bureau has been granted.

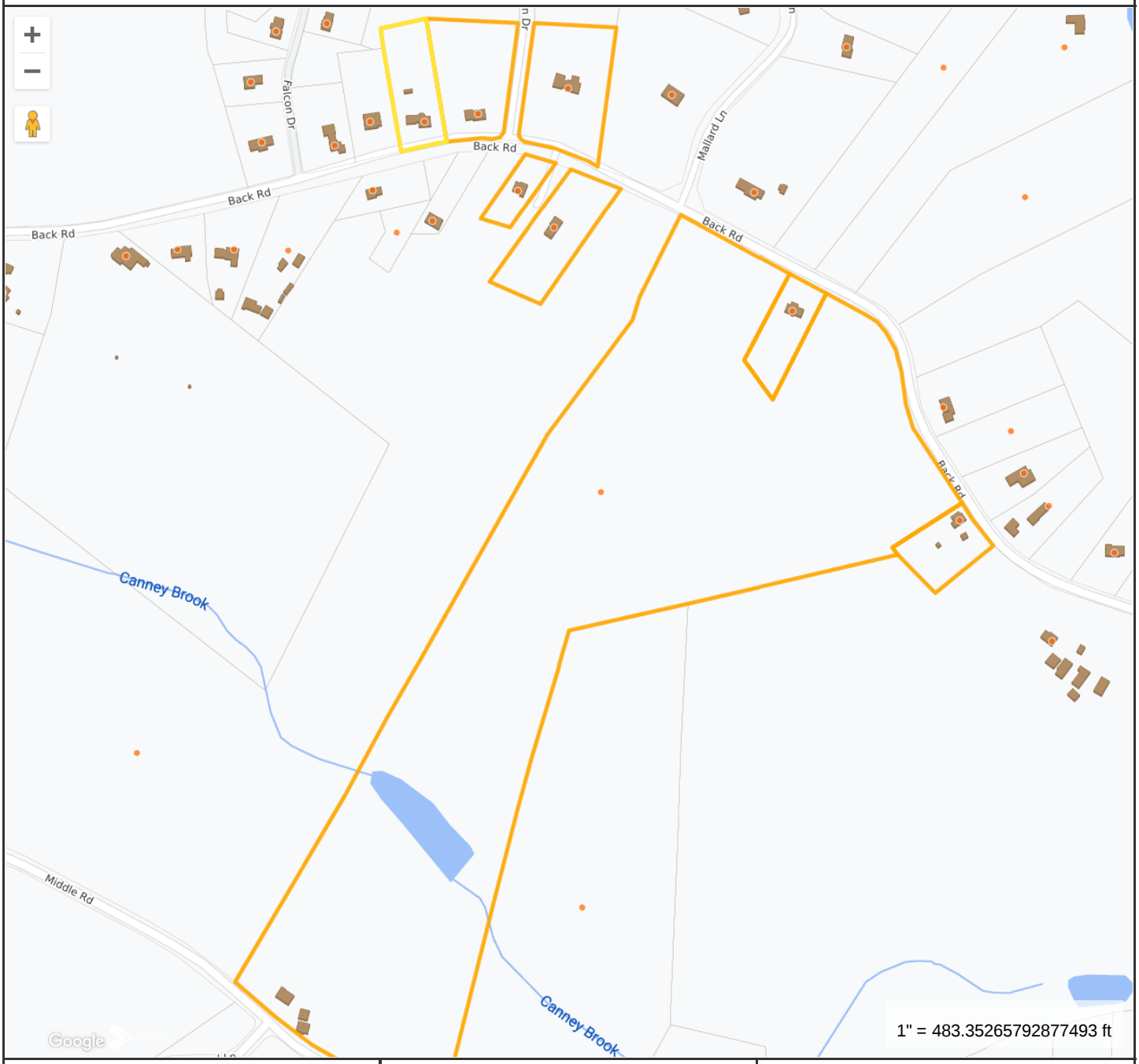
Planning Staff feels that the applicant considered the criteria and has made sufficient efforts to minimize the project's impact, noting that all impact is temporary in nature. In addition, the applicant has taken appropriate measures to mitigate any impacts and has plans in place to restore any areas of disturbance.

STAFF RECOMMENDATION:
The Planning Department recommends that the Planning Board accept the application as complete, note it is not of regional impact, hold a public hearing, make the necessary and supporting findings of fact, and vote to approve the Conditional Use Permit with subsequent conditions:

Subsequent Conditions to Be Met Prior to Issuance of a Conditional Use Permit:

1. Provide copies of NHDES permits and USACE approval.

COND-2023-0065



Property Information

Location	174 BACK RD
Owner	THURSTON ELAINE M
Land Use	
Zoning Code	R-40
Property Id	N0019-A00000

MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT

City of Dover, NH makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Geometry updated 10/30/2023
Data updated Daily

Print map scale is approximate. Critical layout or measurement activities should not be done using this resource.

PERMIT SNAPSHOT REPORT COND-2023-0065
FOR CITY OF DOVER, N.H.

Permit Type	Conditional Use	**Project:**		**App Date:**	12/22/2023
Work Class:	Environmental	**District:**	None	**Exp Date:**	NOT AVAILABLE
Status:	In Review	**Square Feet:**	0.00	**Completed:**	NOT COMPLETED
Valuation:	$0.00	**Assigned To:**	Blonigen, Rachel	**Approval Expire Date:**	

Description: R169 Utility Transmission Line Structure Replacement Project is a 3.5 mile long rebuild of 18 structures within the Right-of-Way. The project involves accessing and building construction pads or placing timber matting over wetlands and sensitive fields on order to complete work.

Parcel: N0019-001000 Main	**Address:** 12 Falcon Dr Main Dover, 03820	**Zone:** R-40(Residential - Rural)

Plan Preparer	Applicant	Owner	Project Manager
Andrew W Ackerman 5 Dartmouth Dr Ste 200 Ste 200 Auburn, NH 03032 Business: (603) 877-8198	Andrew W Ackerman 5 Dartmouth Dr Ste 200 Ste 200 Auburn, NH 03032 Business: (603) 877-8198	Travis Yandow Home: (603) 634-2243 Business: (603) 634-2243	Travis Yandow Home: (603) 634-2243 Business: (603) 634-2243

Permit Custom Fields

Select Permit Type	Conservation District	General Purpose	Alteration / Addition	Project Zone	Mixed Use
What is the parcel zoned?	R-12	New Change in Impervious/Paved Area (sq ft)	0	Work	The project involves temporary and minor permanent impacts to Wetland Protection District buffer areas and some temporary impacts to wetlands from timber matting placement during summer/fall months. The Wetland and Conservation District overlaps in some areas of the project and therefore both districts have temporary impacts.

permitstatefed	Alteration of Terrain, Statutory Permit by Notification, Protected Shoreland PBN, USACE Sec. 408 and Pre-Construction Notification (Sec 404).

Attachment File Name	Added On	Added By	Attachment Group	Notes
Permit Snapshot Report.pdf	12/22/2023 17:54	Service, EnerGov		Attached by IO - ATTACH: Initial Permit Snapshot
Signature_Andrew_Ackerman_12/22/2023.jpg	12/22/2023 17:54	Ackerman, Andrew		Uploaded via CSS
2024.02.12-ConservationCommission.Minutes.pdf	02/21/2024 16:15	Blonigen, Rachel		ConCOm Draft Mins
2024.03.12_PlanningBoard.Agenda.pdf	02/21/2024 16:19	Blonigen, Rachel		
2024.01.25_PlanningTechnicalReviewCommittee.Eversource_CUPs.pdf	02/23/2024 10:15	Blonigen, Rachel		Approved TRC Minutes

Invoice No.	Fee	Fee Amount	Amount Paid
INV-00006273	Planning General Application Fee	$200.00	$200.00
	Total for Invoice INV-00006273	**$200.00**	**$200.00**
INV-00006920	Planning Certified Mailing to Application Contacts	$20.00	$0.00
	Planning Public Notice in Newspaper	$120.00	$0.00

PERMIT SNAPSHOT REPORT (COND-2023-0065)

Planning Creation / Printing of Abutter Labels		$40.00	$0.00
Planning Certified Mailing to Abutters		$380.00	$0.00
	Total for Invoice INV-00006920	**$560.00**	**$0.00**
	Grand Total for Permit	**$760.00**	**$200.00**

Submittal Name	Status	Received Date	Due Date	Complete Date	Resubmit	Completed
Conditional Use Review v.1	Approved	01/02/2024	01/30/2024	01/02/2024	No	Yes

Item Review Name	Department	Assigned User	Status	Assigned Date	Due Date	Completed Date
Planning	Planning	Kaspari, Jackson	Approved	01/02/2024	01/30/2024	01/02/2024

Workflow Step / Action Name	Action Type	Start Date	End Date
Review v.1		01/02/2024 13:27	01/02/2024 13:27
Confirm application complete v.1	Generic Action		01/02/2024 13:27
Conditional Use Review v.1	Receive Submittal	01/02/2024 0:00	01/02/2024 13:27
Planning Board v.1		02/21/2024 12:34	
Planning Board Agenda v.1	Task	02/21/2024 12:34	02/26/2024 14:57
Invoice for Notices v.1	Task	02/26/2024 14:57	02/26/2024 14:57
Send Notices v.1	Task	02/26/2024 14:57	
Planner Creates Staff Recommendations v.1	Permit Activity		
Distribute Planning Board Materials v.1	Task		
Planning Board Hearing v.1	Hold Hearing		
Planning Board Decision v.1	Permit Activity		
NOD Sent to Applicant v.1	Create Report		
Issue Permit v.1			
Verify Fees Prior to Permit v.1	Generic Action		
Issue and Review Permit v.1	Generic Action		
Print and Email Permit v.1	Generic Action		
Plans uploaded to Treeno v.1	Generic Action		
Internal Notification of Plan Completion v.1	Generic Action		
Recording v.1	Task		

City of Dover, New Hampshire
CONDITIONAL USE PERMIT APPLICATION

[Revision Date: October 19, 2020]

Office Use Only	Project #:		Date Received:	
	Amount Paid:		Time Received:	

APPLICANT AND OWNER INFORMATION

Name of Applicant: Public Service Company of NH d/b/a Eversource Energy Telephone # 603-634-2243

Address of Applicant: 13 Legends Drive, Hooksett, NH 03106

E-Mail Address: Travis.Yandow@Eversource.com

Name of Property Owner (if different from applicant): same as above Telephone # same as above

Address of Property Owner: same as above

PROPERTY INFORMATION

Assessor's Map # 831-018 Lot(s) # Multiple

Address of Property: Existing R169 transmission line ROW--end of Falcon Dr. to 245 Back Rd.

Zoning District(s) R-40, R-12, CWD Overlay District(s) Wetland Protection

Rural Residential, Medium Density, Residential, Urban Density Multi Residential, Cocheco Waterfront District

Existing Use of Property: Electric transmission line ROW

CONDITIONAL USE PERMIT INFORMATION

Type of Conditional Use Permit (Check All That Apply):

☐ Conservation District	☐ RCM Use Overlay District	☐ Gateway District
☐ Groundwater Protection	☐ Off-Street Parking and Loading	☐ Alternative Treatment Center
☒ Wetland Protection District	☐ Central Business District	☐ Heritage Residential District

Describe Proposed Use or Activity That Requires Conditional Use Permit and Describe Any Impacts:

Impact Area 3/Sheet 3: Eversource is proposing to replace six structures (13, 14, 15, 16, 17, and 18) along their existing R169 utility transmission line in Dover. These wooden structures require replacement due to age, cracking, leaning, and/or woodpecker damage. The existing structures will be replaced with new weathering steel structures to provide a more reliable electrical infrastructure. The six new structures require construction of both work pads and access roads. In wetland areas, timber matting is used to minimize impacts of work over these sensitive resources. In Area 3, the only impacts are within the Wetland Protection District. In the Wetland District, 23,279 square feet of temporary impact is proposed in the wetland areas as a result of matting for work pads at structures 13, 14, 15, 17, and 18. Approximately 16,716 square feet of temporary impact and 29,941 square feet of permanent impact, is proposed in the wetland buffer areas as a result of the upland disturbance caused by gravel work pads and connecting access roads--primarily around structures 14, 15, and 16. These areas will likely require pre-construction erosion/sediment control BMPs, and monitoring throughout for effectiveness. The gravel area around pads will also be reduced, topsoil spread over gravel areas, and mulched and re-seeded. See attached application narrative and supporting documents for more details.

List Any Associated State or Federal Permits That Have Been or Will Be Applied For and Indicate Their Status: NHDES: Alteration of Terrain; Wetlands Utility Statutory Permit by Notification; Shoreland Permit by Notification; USACE Pre-application Construction Notification; USACE Section 408 Variance to Fed. Navigation Project.

Name of Professional That Prepared Plans: Tom Tetreau, NH Certified Wetland Scientist

Address 30 Park Drive, Topsham, ME 04086 Telephone #: 207-504-7231

Professional License #: 283 E-mail address: tom.tetreau@stantec.com

SIGNATURES

I/We hereby submit this application to the City of Dover Planning Board and attest that to the best of my knowledge all of the information on this application form and in the accompanying application materials and documentation is true and accurate. As applicant or as agent, I attest that I am duly authorized to act in this capacity.

Signature of Property Owner: _____ Date: 12/20/2023

Signature of Applicant (if different from owner): _____ Date: _____

Signature of Agent: _____ Date: 12/20/2023

AUTHORIZATION TO ENTER SUBJECT PROPERTY

I, and my successors, hereby authorize members of the Dover Planning Board, Planning Department and other pertinent City Departments and boards to enter my property for the purpose of evaluating this application, including performing inspections during the application phase, post-approval phase, construction phase and occupancy phase. It is understood that these individuals must use all reasonable care, courtesy, and diligence when on the property.

Signature of Property Owner: _____ Date: 12/20/2023

CITY OF DOVER CONDITIONAL USE
LIST OF ABUTTERS

Pursuant to RSA 676:4, the State Law of New Hampshire, the City of Dover is required to notify the applicant, abutters (including holders of conservation easements), and any professional whose seal is on the plan, of the public hearing by certified mail, return receipt requested. Staff will provide the abutter information, while the applicant must provide accurate contact information for the owner, applicant and professional agents representing the project.

Owner:

TAX MAP	LOT #	PROPERTY OWNER	MAILING ADDRESS
Multiple		Kurt Nelson, Eversource Energy	13 Legends Drive, Hooksett, NH 03106

Applicant (if different from owner):

APPLICANT NAME	APPLICANT COMPANY	MAILING ADDRESS

Surveyor and/or Engineer/Professional Agent:

NAME	COMPANY	MAILING ADDRESS
Tom Tetreau, NH Certified Wetland Scientist	Stantec	30 Park Drive, Topsham, ME 04086

Conservation Easement Holder:

TAX MAP	LOT #	NAME OF EASEMENT HOLDER	MAILING ADDRESS

CITY OF DOVER, NEW HAMPSHIRE
PLANNING APPLICATION OWNER AUTHORIZATION

OWNER AUTHORIZATION

I/We hereby submit this application to the City of Dover / City of Dover Planning Board and attest that to the best of my knowledge all of the information on this application form and in the accompanying application materials and documentation is true and accurate. As applicant or as agent, I attest that I am duly authorized to act in this capacity.

Property Owner Name: Kurt Nelson

Signature(s) of Property Owner(s): _____ Date: _____

Signature of Applicant: Ackerman, Andrew Digitally signed by Ackerman, Andrew Date: 2023.12.20 22:45:10 -09'00' Date: _____
if different from owner

AUTHORIZATION TO ENTER SUBJECT PROPERTY

I/We hereby submit this application to the City of Dover Planning Board and attest that to the best of my knowledge all of the information on this application form and in the accompanying application materials and documentation is true and accurate. As applicant or as agent, I attest that I am duly authorized to act in this capacity..

Property Owner Name: Kurt Nelson

Signature(s) of Property Owner(s): _____ Date: 2023-12-20

Signature of Applicant: _____ Date: 2023-12-20
if different from owner

IF SIGN PERMIT, SIGN PERMIT APPLICATION INFORMATION

If the sign permit applicant is not the property owner, this form must be completed and included as part of application submission.

I have read this application and state that, to the best of my knowledge, the information provided is true and that the proposed sign(s) will comply with all applicable regulations in Section 170-32 of the Zoning Ordinance of the City of Dover and shall conform to the submitted materials and designs. Furthermore, after 90 days, any application still waiting information will be denied.

Address of Sign Location: _____

Sign Permit Application Type:
(check one)

- ☐ Permanent Sign
- ☐ Temporary Sign
- ☐ Community Sign

COND-2023-0065 **FALCON DRIVE TO BACK ROAD**

Property ID	Location	Owner 1	Owner 2	Owner Address 1	City	State	Zip
K0006-000000	105 MIDDLE RD	CBF2 LLC &	TORR THOMAS F TRUSTEE OF	154 MIDDLE RD	DOVER	NH	03820
K0006-B00000	137 BACK RD	TAPP LEANNA &	TAPP NATHAN R	137 BACK RD	DOVER	NH	03820
K0006-D00000	143 BACK RD	FOGG BEATRICE M	FOGG REGINALD H	143 BACK ROAD	DOVER	NH	03820
K0007-A00000	131 C BACK RD	ROULEAU MICHAEL B TRUSTEE	THE MICHAEL B ROULEAU REVOCABLE LIVING T	56 OLD ROCHESTER ROAD UNIT 3	DOVER	NH	03820
M0001-000000	220 BACK RD	LAITINEN WILLIAM H &	LAITINEN VALERIA S	220 BACK RD	DOVER	NH	03820
M0001-001000	BACK RD	LAITINEN WILLIAM H &	LAITINEN VALERIA S	220 BACK RD	DOVER	NH	03820
M0001-002000	BACK RD	STATE OF NEW HAMPSHIRE	FISH AND GAME DEPARTMENT	11 HAZEN DR	CONCORD	NH	03301
M0001-003000	BACK RD	STATE OF NEW HAMPSHIRE	FISH AND GAME DEPARTMENT	11 HAZEN DR	CONCORD	NH	03301
M0002-000000	BACK RD	STATE OF NEW HAMPSHIRE	FISH AND GAME DEPARTMENT	11 HAZEN DR	CONCORD	NH	03301
M0002-001000	278 BACK RD	FINSTAD BRIAN RANDALL &	HALLBERG SEANA BERKLEY	278 BACK RD	DOVER	NH	03820
M0002-002000	270 BACK RD	PLANTE ELAINE M TRUSTEE	PLANTE ELAINE M REVOCABLE TRUST	270 BACK RD	DOVER	NH	03820
M0002-003000	BACK RD	PLANTE ELAINE M TRUSTEE	PLANTE ELAINE M REVOCABLE TRUST	270 BACK RD	DOVER	NH	03820
M0002-A00000	258 BACK RD	HODGDON TIMOTHY S		258 BACK RD	DOVER	NH	03820
M0004-000000	MIDDLE RD	THORNWOOD COMMONS UNIT OWNERS' ASSOCIATI	C/O GREAT NORTH PROPERTY MANAGEMENT	3 HOLLAND WAY	EXETER	NH	03833
M0004-000004	14 JACQUELINE DR	HALL JOHN L & RENEE O TRUSTEES	HALL FAMILY REVOCABLE TRUST	14 JACQUELINE DR	DOVER	NH	03820-5019
M0004-000005	16 JACQUELINE DR	RUGER DIANE W TRUSTEE	RUGER DIANE W REVOCABLE TRUST	16 JACQUELINE DR	DOVER	NH	03820-5019
M0004-000006	19 JACQUELINE DR	WHALEN JOHN F & DIANA M TRUSTEES	WHALEN JOHN F & DIANA M IRREVOCABLE TRUS	19 JACQUELINE DR	DOVER	NH	03820
M0004-000OPN	MIDDLE RD	THORNWOOD COMMONS LLC	C/O GREAT NORTH PROPERTY MANAGEMENT	3 HOLLAND WAY	EXETER	NH	03833
M0005-000000	161 MIDDLE RD	WENTWORTH MARK W & SHARON L TTS	WENTWORTH ANCESTRAL GRANTOR TRUST	161 MIDDLE RD	DOVER	NH	03820
M0005-A00000	163 MIDDLE RD	TAETZSCH AMY		163 MIDDLE RD	DOVER	NH	03820
M0085-000000	175 MIDDLE RD	HITCHKO MARK		175 MIDDLE RD	DOVER	NH	03820
M0100-A00000	245 BACK RD	HUNT NANCY E	HUNT WILLIAM C	245 BACK ROAD	DOVER	NH	03820
M0101-004000	MIDDLE RD	BWW TRUST		196 MIDDLE RD	DOVER	NH	03820
N0018-000OP1	EAGAN DR	GARRISON COVE HOMEOWNERS ASSOCIATION		33 WHITELEY DR	DOVER	NH	03820
N0018-000OP6	EAGAN DR	GARRISON COVE HOMEOWNERS ASSOCIATION		33 WHITELEY DR	DOVER	NH	03820
N0018-006000	MCKONE LN	AYER DANIEL & JACQUELINE REV TRUSTS	AYER DANIEL AND JACQUELINE TRUSTEES	100 MCKONE LN # A	DOVER	NH	03820-3852
N0018-014000	10 WHITELEY DR	DICHTER BRIANNA &	DICHTER PATRICK	10 WHITELEY DRIVE	DOVER	NH	03820
N0018-015000	6 WHITELEY DR	BRADLEY JOHN W III	BRADLEY SUSAN	6 WHITELEY DR	DOVER	NH	03820
N0018-016000	25 EAGAN DR	ST CYR CHRISTOPHER & ROBERTS-ST CYR KARE	PARACHUTE TRUST	25 EAGAN DRIVE	DOVER	NH	03820
N0019-000OPN	FALCON DR	FALCON DRIVE HOMEOWNER'S ASSOCIATION	C/O ROSS JOHN J	18 FALCON DR	DOVER	NH	03820
N0019-004000	21 FALCON DR	BECK KINLEY D		21 FALCON DR	DOVER	NH	03820
N0020-001000	26 MALLARD LN	MURPHY MICHAEL J		26 MALLARD LN	DOVER	NH	03820
N0020-002000	34 MALLARD LN	HIGGINS JOHN F &	HIGGINS KATHLEEN A	34 MALLARD LN	DOVER	NH	03820
N0020-B00000	210 BACK RD	FLYNN JOHN & PATRICIA LIV REV TRUSTS	FLYNN JOHN AND PATRICIA TRUSTEES	818 CENTRAL AVE	DOVER	NH	03820
N0020-C00000	202 BACK RD	PAMPREEN LISA R &	PAMPREEN FRANK X	202 BACK RD	DOVER	NH	03820
N0021-000000	160 BACK RD	AYER JACQUELINE TRUSTEE	AYER JACQUELINE REV TRUST	100 MCKONE LN # A	DOVER	NH	03820-3852
N0021-001000	166 BACK RD	HINKLEY JOHN E & DEBORAH A TRUSTEES	HINKLEY FAMILY TRUST OF 2020	166 BACK RD	DOVER	NH	03820
K0006-C00000	147 BACK RD	BOURQUE STEVEN M	BOURQUE DEBORAH A	147 BACK RD	DOVER	NH	03820
K0006-E00000	153 BACK RD	CURRIER VICTORIA &	CURRIER WILLIAM	153 BACK ROAD	DOVER	NH	03820
M0003-000000	154 MIDDLE RD	WILLIAMS R CRAIG &	WILLIAMS ANN T	154 MIDDLE RD	DOVER	NH	03820
M0003-A00000	229 BACK RD	SMITH MATTHEW M		229 BACK RD	DOVER	NH	03820
M0003-B00000	191 BACK RD	DUPLOUY ROGER JR TRUSTEE	THE ROGER DUPLOUY FAMILY TRUST OF 2023	PO BOX 273	DOVER	NH	03820-0273
N0019-A00000	174 BACK RD	THURSTON ELAINE M	THURSTON FRANK K	174 BACK ROAD	DOVER	NH	03820
N0019-B00000	180 BACK RD	SANTANA RAMIREZ RICARDO ANTONIO &	ALVAREZ SALLY SUAREZ	180 BACK RD	DOVER	NH	03820
N0019-C00000	186 BACK RD	VITKO THOMAS J & SUZANNE M TRUSTEES	VITKO ANCESTRAL GRANTOR TRUST	186 BACK RD	DOVER	NH	03820
		STANTEC	ANDREW ACKERMAN	5 DARTMOUTH DRIVE SUITE 200	AUBURN	NH	03032

CITY OF DOVER

PLANNING BOARD - STAFF MEMO FILE #COND-2023-0066

Application Type:	Conditional Use Permit
Applicant(s):	Stantec
Owner(s):	Public Service Company of New Hampshire, d/b/a/Eversource Energy
Location:	Transmission line right of way (ROW)- Back Road to Cullen Bay Road (Tax Map M, Lots 105, 105-1, 105-2, 100-A, 92-B, 93-B)
Meeting Date:	March 12, 2024

INTENT: Proposal is to replace a deficient utility structure/pole along the R169 Electric Transmission Line creating 3,188 square feet of temporary wetland impact and 1,852 s.f. of temporary wetland buffer impact.

UNITS PROPOSED: N/A

AGENDA ITEM #: 4-E

ACREAGE: N/A (±3,188 square feet of temporary wetland impacts)

ZONING DISTRICT: R-40

EXISTING USE: Electrical Transmission line, ROW

PROPOSED USE: Electrical Transmission line, ROW

SURROUNDING USE: Varies, but mostly residential

ZBA ACTION: None

ATTACHMENTS: Application materials including site plan

APPLICATION IS COMPLETE: Yes

REGIONAL IMPACT: No

NOTICES SENT: Abutter notices were sent by certified mail to all abutters for this meeting

PERMITS REQUIRED:
Five (5) City of Dover CUPs

NHDES: Alteration of Terrain; Wetlands Utility Statutory Permit by Notification; Shoreland Permit by Notification USACE Pre-application Construction Notification; USACE Section 408 Variance to Fed. Navigation Project

WAIVERS REQUESTED: None

CONSERVATION COMMISSION:
02/12/2024

TRC: 01/25/2024

Summary of Request and Background
Eversource is proposing to replace five structures (7, 8, 9, 11, and 12) along their existing R169 utility transmission line in Dover as it traverse pastures south and west of Back Rd then crosses at Cullen Bay Rd and continues southeasterly. These wooden structures require replacement due to age, cracking, leaning, and/or woodpecker damage. The existing structures will be replaced with new weathering steel structures to provide a more reliable electrical infrastructure. The five new structures require construction of both work pads and access roads. In wetland areas or fields, timber matting is used to minimize impact of work over these sensitive resources. In Area 4, as a result of the productive pasture land at four of the five structures, matting will be utilized to minimize ground impacts within the ROW and off-ROW. Structure 7 is entirely within a delineated wetland and, therefore, the work pad will also be completely matted. The only impacts in this area are within the Wetland Protection District. In the Wetland District, 3,188 square feet of temporary impact is proposed in the wetland areas as a result of matting at structure 7. Approximately 1,852 square feet of temporary impact is proposed in the wetland buffer areas as a result of the upland matting needed to protect farmland. When needed, these areas will require pre-construction installation of erosion/sediment control BMPs and monitoring throughout for effectiveness.

The Conservation Commission endorsed the application at their February 12, 2024 meeting. (minutes attached)

The Technical Review Committee endorsed the application at their January 25, 2024 meeting.

Consistency with Land Use Regulations – CUP 170.27.1-F
The Conservation District ordinance §170.27.1-F provides for Conditional Use Permits to allow impacts to the Wetlands Protection District if standards related to demonstration that no practicable alternative is available, avoidance, minimization, mitigation has been sought and approval of the wetlands impact from NHDES Wetlands Bureau has been granted.

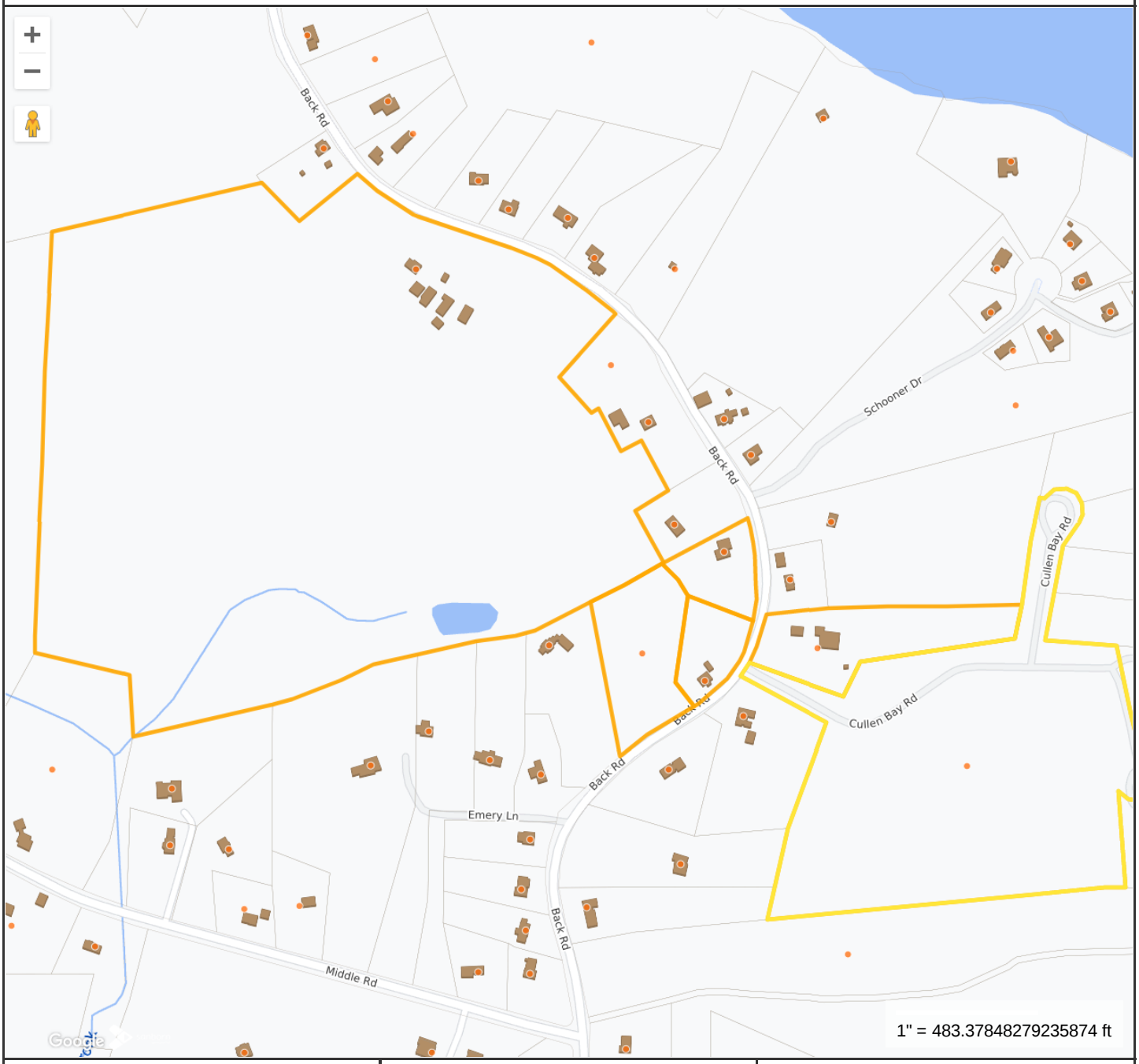
Planning Staff feels that the applicant considered the criteria and has made sufficient efforts to minimize the project's impact, noting that all impact is temporary in nature. In addition, the applicant has taken appropriate measures to mitigate any impacts and has plans in place to restore any areas of disturbance.

STAFF RECOMMENDATION:
The Planning Department recommends that the Planning Board accept the application as complete, note it is not of regional impact, hold a public hearing, make the necessary and supporting findings of fact, and vote to approve the Conditional Use Permit with subsequent conditions:

Subsequent Conditions to Be Met Prior to Issuance of a Conditional Use Permit:

1. Provide copies of NHDES permits and USACE approval.

COND-2023-0066 245 Back Road to Cullen Bay Road



Property Information

Location	CULLEN BAY RD
Owner	CULLEN BAY HOMEOWNERS ASSC
Land Use	
Zoning Code	R-40
Property Id	M0092-B00000

MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT

City of Dover, NH makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Geometry updated 10/30/2023
Data updated Daily

Print map scale is approximate. Critical layout or measurement activities should not be done using this resource.

PERMIT SNAPSHOT REPORT COND-2023-0066
FOR CITY OF DOVER, N.H.

Permit Type	Conditional Use	**Project:**		**App Date:**	12/22/2023
Work Class:	Environmental	**District:**	None	**Exp Date:**	NOT AVAILABLE
Status:	In Review	**Square Feet:**	0.00	**Completed:**	NOT COMPLETED
Valuation:	$0.00	**Assigned To:**	Blonigen, Rachel	**Approval Expire Date:**	

Description: R169 Utility Transmission Line Structure Replacement Project is a 3.5 mile long rebuild of 18 structures within the Right-of-Way. The project involves accessing and building construction pads or placing timber matting over wetlands and sensitive fields on order to complete work.

Parcel: M0100-A00000 Main	**Address:** 245 Back Rd Main Dover, 03820	**Zone:** R-40(Residential - Rural)

Owner	Plan Preparer	Applicant	Project Manager
Travis Yandow Home: (603) 634-2243 Business: (603) 634-2243	Andrew W Ackerman 5 Dartmouth Dr Ste 200 Ste 200 Auburn, NH 03032 Business: (603) 877-8198	Andrew W Ackerman 5 Dartmouth Dr Ste 200 Ste 200 Auburn, NH 03032 Business: (603) 877-8198	Travis Yandow Home: (603) 634-2243 Business: (603) 634-2243

Permit Custom Fields

Select Permit Type	Wetland Protection District	General Purpose	Alteration / Addition	Project Zone	Mixed Use
What is the parcel zoned?	R-12	New Change in Impervious/Paved Area (sq ft)	0	Work	The project involves temporary and minor permanent impacts to Wetland Protection District buffer areas and some temporary impacts to wetlands from timber matting placement during summer/fall months. The Wetland and Conservation District overlaps in some areas of the project and therefore both districts have temporary impacts.

permitstatefed	Alteration of Terrain, Statutory Permit by Notification, Protected Shoreland PBN, USACE Sec. 408 and Pre-Construction Notification (Sec 404).

Attachment File Name	Added On	Added By	Attachment Group	Notes
Permit Snapshot Report.pdf	12/22/2023 17:58	Service, EnerGov		Attached by IO - ATTACH: Initial Permit Snapshot
Signature_Andrew_Ackerman_12/22/2023.jpg	12/22/2023 17:58	Ackerman, Andrew		Uploaded via CSS
2024.02.12-ConservationCommission.Minutes.pdf	02/21/2024 16:17	Blonigen, Rachel		ConCom Draft Mins
2024.03.12_PlanningBoard.Agenda.pdf	02/21/2024 16:18	Blonigen, Rachel		
2024.01.25_PlanningTechnicalReviewCommittee.Eversource_CUPs.pdf	02/23/2024 10:16	Blonigen, Rachel		Approved TRC Minutes

Invoice No.	Fee	Fee Amount	Amount Paid
INV-00006274	Planning General Application Fee	$200.00	$200.00
	Total for Invoice INV-00006274	$200.00	$200.00
	Grand Total for Permit	**$200.00**	**$200.00**

PERMIT SNAPSHOT REPORT (COND-2023-0066)

Submittal Name	Status	Received Date	Due Date	Complete Date	Resubmit	Completed
Conditional Use Review v.1	Approved	01/02/2024	01/30/2024	01/02/2024	No	Yes

Item Review Name	Department	Assigned User	Status	Assigned Date	Due Date	Completed Date
Planning	Planning	Kaspari, Jackson	Approved	01/02/2024	01/30/2024	01/02/2024

Workflow Step / Action Name	Action Type	Start Date	End Date
Review v.1		01/02/2024 13:30	01/02/2024 13:31
Confirm application complete v.1	Generic Action		01/02/2024 13:31
Conditional Use Review v.1	Receive Submittal	01/02/2024 0:00	01/02/2024 13:31
Planning Board v.1		02/21/2024 12:49	
Planning Board Agenda v.1	Task	02/21/2024 12:49	02/26/2024 15:10
Invoice for Notices v.1	Task	02/26/2024 15:09	02/26/2024 15:10
Send Notices v.1	Task	02/26/2024 15:09	
Planner Creates Staff Recommendations v.1	Permit Activity		
Distribute Planning Board Materials v.1	Task		
Planning Board Hearing v.1	Hold Hearing		
Planning Board Decision v.1	Permit Activity		
NOD Sent to Applicant v.1	Create Report		
Issue Permit v.1			
Verify Fees Prior to Permit v.1	Generic Action		
Issue and Review Permit v.1	Generic Action		
Print and Email Permit v.1	Generic Action		
Plans uploaded to Treeno v.1	Generic Action		
Internal Notification of Plan Completion v.1	Generic Action		
Recording v.1	Task		

City of Dover, New Hampshire
CONDITIONAL USE PERMIT APPLICATION

[Revision Date: October 19, 2020]

Office Use Only	Project #:		Date Received:	
	Amount Paid:		Time Received:	

APPLICANT AND OWNER INFORMATION

Name of Applicant: Public Service Company of NH d/b/a Eversource Energy Telephone # 603-634-2243

Address of Applicant: 13 Legends Drive, Hooksett, NH 03106

E-Mail Address: Travis.Yandow@Eversource.com

Name of Property Owner (if different from applicant): same as above Telephone # same as above

Address of Property Owner: same as above

PROPERTY INFORMATION

Assessor's Map # 831-009 Lot(s) # Multiple

Address of Property: Existing R169 transmission line ROW--245 Back Rd to Cullen Bay Rd

Zoning District(s) R-40, R-12, CWD Overlay District(s) Wetland Protection

Rural Residential, Medium Density, Residential, Urban Density Multi Residential, Cocheco Waterfront District

Existing Use of Property: Electric transmission line ROW

CONDITIONAL USE PERMIT INFORMATION

Type of Conditional Use Permit (Check All That Apply):

☐ Conservation District	☐ RCM Use Overlay District	☐ Gateway District
☐ Groundwater Protection	☐ Off-Street Parking and Loading	☐ Alternative Treatment Center
☒ Wetland Protection District	☐ Central Business District	☐ Heritage Residential District

Describe Proposed Use or Activity That Requires Conditional Use Permit and Describe Any Impacts:

Impact Area 4/Sheet 4: Eversource is proposing to replace five structures (7, 8, 9, 11, and 12) along their existing R169 utility transmission line in Dover as it traverse pastures south and west of Back Rd then crosses at Cullen Bay Rd and continues southeasterly. These wooden structures require replacement due to age, cracking, leaning, and/or woodpecker damage. The existing structures will be replaced with new weathering steel structures to provide a more reliable electrical infrastructure. The five new structures require construction of both work pads and access roads. In wetland areas or fields, timber matting is used to minimize impact of work over these sensitive resources. In Area 4, as a result of the productive pasture land at four of the five structures, matting will be utilized to minimize ground impacts within the ROW and off-ROW. Structure 7 is entirely within a delineated wetland and, therefore, the work pad will also be completely matted. The only impacts in this area are within the Wetland Protection District. In the Wetland District, 3,188 square feet of temporary impact is proposed in the wetland areas as a result of matting at structure 7. Approximately 1,852 square feet of temporary impact is proposed in the wetland buffer areas as a result of the upland matting needed to protect farmland. When needed, these areas will require pre-construction installation of

erosion/sediment control BMPs and monitoring throughout for effectiveness. See attached application narrative and supporting documents for more details.

List Any Associated State or Federal Permits That Have Been or Will Be Applied For and Indicate Their Status: NHDES: Alteration of Terrain; Wetlands Utility Statutory Permit by Notification; Shoreland Permit by Notification; USACE Pre-application Construction Notification; USACE Section 408 Variance to Fed. Navigation Project.

Name of Professional That Prepared Plans: Tom Tetreau, NH Certified Wetland Scientist

Address 30 Park Drive, Topsham, ME 04086 Telephone #: 207-504-7231

Professional License #: 283 E-mail address: tom.tetreau@stantec.com

SIGNATURES

I/We hereby submit this application to the City of Dover Planning Board and attest that to the best of my knowledge all of the information on this application form and in the accompanying application materials and documentation is true and accurate. As applicant or as agent, I attest that I am duly authorized to act in this capacity.

Signature of Property Owner: _____ Date: 12/20/2023

Signature of Applicant (if different from owner): _____ Date: _____

Signature of Agent: _____ Date: 12/20/2023

AUTHORIZATION TO ENTER SUBJECT PROPERTY

I, and my successors, hereby authorize members of the Dover Planning Board, Planning Department and other pertinent City Departments and boards to enter my property for the purpose of evaluating this application, including performing inspections during the application phase, post-approval phase, construction phase and occupancy phase. It is understood that these individuals must use all reasonable care, courtesy, and diligence when on the property.

Signature of Property Owner: _____ Date: 12/20/2023

CITY OF DOVER CONDITIONAL USE
LIST OF ABUTTERS

Pursuant to RSA 676:4, the State Law of New Hampshire, the City of Dover is required to notify the applicant, abutters (including holders of conservation easements), and any professional whose seal is on the plan, of the public hearing by certified mail, return receipt requested. Staff will provide the abutter information, while the applicant must provide accurate contact information for the owner, applicant and professional agents representing the project.

Owner:

TAX MAP	LOT #	PROPERTY OWNER	MAILING ADDRESS
Multiple		Kurt Nelson, Eversource Energy	13 Legends Drive, Hooksett, NH 03106

Applicant (if different from owner):

APPLICANT NAME	APPLICANT COMPANY	MAILING ADDRESS

Surveyor and/or Engineer/Professional Agent:

NAME	COMPANY	MAILING ADDRESS
Tom Tetreau, NH Certified Wetland Scientist	Stantec	30 Park Drive, Topsham, ME 04086

Conservation Easement Holder:

TAX MAP	LOT #	NAME OF EASEMENT HOLDER	MAILING ADDRESS

CITY OF DOVER, NEW HAMPSHIRE
PLANNING APPLICATION OWNER AUTHORIZATION

OWNER AUTHORIZATION

I/We hereby submit this application to the City of Dover / City of Dover Planning Board and attest that to the best of my knowledge all of the information on this application form and in the accompanying application materials and documentation is true and accurate. As applicant or as agent, I attest that I am duly authorized to act in this capacity.

Property Owner Name: Kurt Nelson

Signature(s) of Property Owner(s): _____ Date: _____

Signature of Applicant: Ackerman, Andrew Digitally signed by Ackerman, Andrew Date: 2023.12.20 22:45:10 -09'00' Date: _____
if different from owner

AUTHORIZATION TO ENTER SUBJECT PROPERTY

I/We hereby submit this application to the City of Dover Planning Board and attest that to the best of my knowledge all of the information on this application form and in the accompanying application materials and documentation is true and accurate. As applicant or as agent, I attest that I am duly authorized to act in this capacity..

Property Owner Name: Kurt Nelson

Signature(s) of Property Owner(s): _____ Date: 2023-12-20

Signature of Applicant: _____ Date: 2023-12-20
if different from owner

IF SIGN PERMIT, SIGN PERMIT APPLICATION INFORMATION

If the sign permit applicant is not the property owner, this form must be completed and included as part of application submission.

I have read this application and state that, to the best of my knowledge, the information provided is true and that the proposed sign(s) will comply with all applicable regulations in Section 170-32 of the Zoning Ordinance of the City of Dover and shall conform to the submitted materials and designs. Furthermore, after 90 days, any application still waiting information will be denied.

Address of Sign Location: _____

Sign Permit Application Type:
(check one)

- ☐ Permanent Sign
- ☐ Temporary Sign
- ☐ Community Sign

COND-2023-0066 **245 BACK ROAD TO CULLEN BAY ROAD**

Property ID	Location	Owner 1	Owner 2	Owner Address 1	City	State	Zip
M0002-000000	BACK RD	STATE OF NEW HAMPSHIRE	FISH AND GAME DEPARTMENT	11 HAZEN DR	CONCORD	NH	03301
M0002-001000	278 BACK RD	FINSTAD BRIAN RANDALL &	HALLBERG SEANA BERKLEY	278 BACK RD	DOVER	NH	03820
M0002-002000	270 BACK RD	PLANTE ELAINE M TRUSTEE	PLANTE ELAINE M REVOCABLE TRUST	270 BACK RD	DOVER	NH	03820
M0002-004000	288 BACK RD	VOLPE NANCY R &	DOUCETTE PAUL	288 BACK RD	DOVER	NH	03820-5008
M0003-000000	154 MIDDLE RD	WILLIAMS R CRAIG &	WILLIAMS ANN T	154 MIDDLE RD	DOVER	NH	03820
M0003-A00000	229 BACK RD	SMITH MATTHEW M		229 BACK RD	DOVER	NH	03820
M0092-A00000	BACK RD	LANGS PATRICIA		10 HAWTHORN ROAD	DOVER	NH	03820
M0092-C00000	408 BACK RD	ENDRIZZI MATTHEW G &	ENDRIZZI SUSAN I	408 BACK ROAD	DOVER	NH	03820
M0092-C00001	398 BACK RD	CYR ROBERT A	BARRY PATRICIA	398 BACK RD	DOVER	NH	03820
M0092-D00000	380 BACK RD	SMITH DAVID F &	SMITH JULIANNE M	380 BACK RD	DOVER	NH	03820
M0092-E00000	2 CULLEN BAY RD	REARDON PATRICK	REARDON MICHELLE C	2 CULLEN BAY RD	DOVER	NH	03820
M0092-F00000	4 CULLEN BAY RD	REID ELAINE B & ALTMEYER SHARON CO-TRUST	REID ELAINE B REVOCABLE LIVING TRUST	4 CULLEN BAY RD	DOVER	NH	03820
M0092-G00000	6 CULLEN BAY RD	HEBERT MARIE V TRUSTEE	HEBERT MARIE V REVOCABLE TRUST	6 CULLEN BAY RD	DOVER	NH	03820
M0092-H00000	CULLEN BAY RD	HEBERT MARIE V TRUSTEE	HEBERT MARIE V REVOCABLE TRUST	6 CULLEN BAY RD	DOVER	NH	03820
M0092-I00000	370 BACK RD	MARINO JOSEPH A		370 BACK ROAD	DOVER	NH	03820
M0093-A00001	5 CULLEN BAY RD	HILDRETH NORMAN G JR &	HILDRETH BETH W	5 CULLEN BAY RD	DOVER	NH	03820
M0093-A00002	7 CULLEN BAY RD	TROCHALAKIS MICHEL G &	TROCHALAKIS MICHELLE L	7 CULLEN BAY RD	DOVER	NH	03820
M0093-A00003	3 CULLEN BAY RD	WANG CHIEN &	REN HUA	3 CULLEN BAY RD	DOVER	NH	03820
M0093-A00004	1 CULLEN BAY RD	DOVER HOUSE LLC		1299 PONTE VEDRA BLVD	PONTE VEDRA BEACH	FL	32082
M0094-000000	356 BACK RD	SPENCER CAROLYN		356 BACK RD	DOVER	NH	03820
M0094-A00000	346 BACK RD	HOLLINGER CHRISTINA B &	HOLLINGER JEFFREY D	346 BACK RD	DOVER	NH	03820
M0096-000000	320 BACK RD	BERGERON MICHAEL N &	BERGERON JANE E	320 BACK ROAD	DOVER	NH	03820
M0096-A00000	SCHOONER DR	SIX HIGH STREET LLC &	TUEY TRUST OF 2003	56 WESTVILLE RD #4	PLAISTOW	NH	03865
M0097-A00000	336 BACK RD	KHAVARI SHIREEN & NEELY PAUL M TRUSTEES	KHAVARI SHIREEN AND NEELY PAUL REVOCABLE	336 BACK RD	DOVER	NH	03820
M0099-000000	304 BACK RD	MERCIER ROGER R JR		304 BACK ROAD	DOVER	NH	03820
M0099-001000	298 BACK RD	DOWNES ROSE H		PO BOX 1047	DOVER	NH	03821-1047
M0099-002000	312 BACK RD	DENISON MASI		PO BOX 2023	DOVER	NH	03821
M0099-A00000	292 BACK RD	PEOPLES WYATT B &	JIMENEZ STEFANIE YAMINE ALFARO	292 BACK RD	DOVER	NH	03820
M0100-000000	281 BACK RD	JUDD CATHERINE RUTH REV TRUST 2020	JUDD CATHERINE RUTH TRUSTEE	1533 THISTLEWOOD DR	DESOTO	TX	75115
M0100-B00000	295 BACK RD	HUNT GREGORY W		295 BACK RD	DOVER	NH	03820
M0101-000000	196 MIDDLE RD	BWW TRUST		196 MIDDLE ROAD	DOVER	NH	03820
M0101-001000	212 MIDDLE RD	BERGER GLENN A & SUZANNE C TRUSTEES	THE GLENN A & SUZANNE C BERGER REV LIV T	212 MIDDLE RD	DOVER	NH	03820
M0101-003000	214 MIDDLE RD	MCMANUS JAMES &	MCMANUS KELLY	214 MIDDLE RD	DOVER	NH	03820
M0101-004000	MIDDLE RD	BWW TRUST		196 MIDDLE RD	DOVER	NH	03820
M0102-006000	3 EMERY LN	JOLIN KELSEY	JOLIN CHAD	4187 CHERRYHURST COURT	HIGHLANDS RANCH	CO	80126
M0102-006A00	389 BACK RD	DUBOIS RENE R & ELIZABETH H TRUSTEES	DUBOIS RENE AND ELIZABETH H REVOCABLE LI	389 BACK RD	DOVER	NH	03820-5006
M0102-007000	9 EMERY LN	MAXWELL WILLIAM J & PATRICIA L TRUSTEES	MAXWELL WILLIAM AND PATRICIA REVOCABLE T	9 EMERY LN	DOVER	NH	03820
M0102-008000	15 EMERY LN	O CONNOR JOHN E & JANE R CO-TRUSTEES	O CONNOR FAMILY REVOCABLE TRUST OF 2016	15 EMERY LANE	DOVER	NH	03820-5011
M0102-009000	19 EMERY LN	BLACK TODD R & JULIE TRUSTEES	BLACK TODD AND JULIE M REVOCABLE TRUSTS	19 EMERY LANE	DOVER	NH	03820
M0104-000000	BACK RD	TODD HEATH J TRUSTEE	TODD HEATH J REVOCABLE TRUST	402 WEBBER HILL RD	KENNEBUNK	ME	04043
M0092-B00000	CULLEN BAY RD	CULLEN BAY HOMEOWNERS ASSC	C/O MICHELLE TROCHALAKIS TREASURER	7 CULLEN BAY RD	DOVER	NH	03820
M0093-B00000	362 BACK RD	MAGLARAS NANCY	MAGLARAS CHARLES	362 BACK ROAD	DOVER	NH	03820
M0100-A00000	245 BACK RD	HUNT NANCY E	HUNT WILLIAM C	245 BACK ROAD	DOVER	NH	03820
M0105-000000	321 BACK RD	HIPPE KRISTIN LEIGH		321 BACK RD	DOVER	NH	03820
M0105-001000	BACK RD	HUNT WILLIAM C & NANCY TRUSTEES	HUNT FAMILY 2007 REVOCABLE TRUST	245 BACK RD	DOVER	NH	03820
M0105-002000	303 BACK RD	BERG CHRISTOPHER D &	BERG KAREN J	303 BACK RD	DOVER	NH	03820
		STANTEC	ANDREW ACKERMAN	5 DARTMOUTH DRIVE SUITE	AUBURN	NH	03032

CITY OF DOVER

PLANNING BOARD - STAFF MEMO FILE #COND-2023-0067

Application Type:	Conditional Use Permit
Applicant(s):	Stantec
Owner(s):	Public Service Company of New Hampshire, d/b/a/Eversource Energy
Location:	Transmission line right of way (ROW)- Cullen Bay Road to Cochecho River (Tax Map M, Lots 91-C, 92-A, 92-H, 104)
Meeting Date:	March 12, 2024

INTENT: Proposal is to replace a deficient utility structure/pole along the R169 Electric Transmission Line creating 29,676 square feet of temporary wetland impact.

UNITS PROPOSED: N/A

AGENDA ITEM #: 4-F

ACREAGE: N/A (±29,676 square feet of temporary wetland impacts

ZONING DISTRICT: R-40

EXISTING USE: Electrical Transmission line, ROW

PROPOSED USE: Electrical Transmission line, ROW

SURROUNDING USE: Varies, but mostly residential

ZBA ACTION: None

ATTACHMENTS: Application materials including site plan

APPLICATION IS COMPLETE: Yes

REGIONAL IMPACT: No

NOTICES SENT: Abutter notices were sent by certified mail to all abutters for this meeting

PERMITS REQUIRED:
Five (5) City of Dover CUPs

NHDES: Alteration of Terrain; Wetlands Utility Statutory Permit by Notification; Shoreland Permit by Notification USACE Pre-application Construction Notification; USACE Section 408 Variance to Fed. Navigation Project

WAIVERS REQUESTED: None

CONSERVATION COMMISSION:
02/12/2024

TRC: 01/25/2024

Summary of Request and Background
Eversource is proposing to replace one structure (structure 6) along their existing R169 utility transmission line in Dover as it traverses southeast at Cullen Bay Rd and continues southeasterly to the Piscataqua River. This wooden structure requires replacement due to age, cracking, leaning, and/or woodpecker damage. The existing structure will be replaced with new weathering steel structure to provide a more reliable electrical infrastructure. The new structure requires construction of a work pad and access roads. In wetland areas timber matting is used to temporary work over these sensitive resources. In Area 5, as a result of the large wetland (W18-PSS) around proposed structure 6, matting will be utilized to minimize access impacts within the ROW. The structure 6 work pad is also entirely within the delineated wetland and will be completely matted. The only impacts in this area are within the Wetland Protection District. In the wetland areas, 29,676 square feet of temporary impact is proposed as a result of work pad and access road matting across the large wetland (W18-PSS) at structure 6. Approximately 942 square feet of temporary impact is proposed in the wetland buffer areas as a result of the upland matting needed to protect farmland. When needed, these areas will require pre-construction erosion/ sediment control BMPs and monitoring throughout for effectiveness.

The Conservation Commission endorsed the application at their February 12, 2024 meeting. (minutes attached)

The Technical Review Committee endorsed the application at their January 25, 2024 meeting.

Consistency with Land Use Regulations – CUP 170.27.1-F
The Conservation District ordinance §170.27.1-F provides for Conditional Use Permits to allow impacts to the Wetlands Protection District if standards related to demonstration that no practicable alternative is available, avoidance, minimization, mitigation has been sought and approval of the wetlands impact from NHDES Wetlands Bureau has been granted.

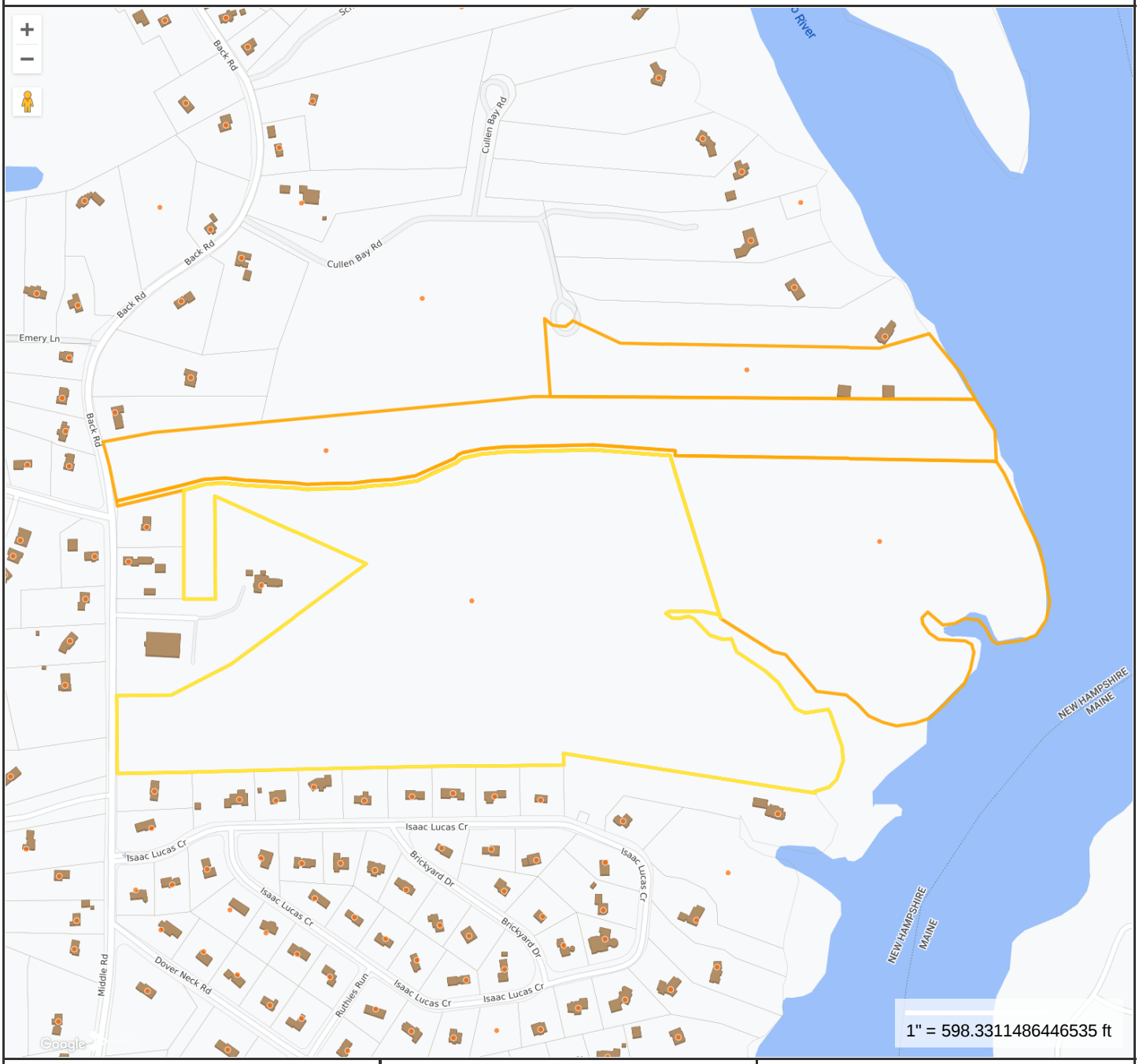
Planning Staff feels that the applicant considered the criteria and has made sufficient efforts to minimize the project's impact, noting that all impact is temporary in nature. In addition, the applicant has taken appropriate measures to mitigate any impacts and has plans in place to restore any areas of disturbance.

STAFF RECOMMENDATION:
The Planning Department recommends that the Planning Board accept the application as complete, note it is not of regional impact, hold a public hearing, make the necessary and supporting findings of fact, and vote to approve the Conditional Use Permit with subsequent conditions:

Subsequent Conditions to Be Met Prior to Issuance of a Conditional Use Permit:

1. Provide copies of NHDES permits and USACE approval.

COND-2023-0067 Cullen Bay Road to Cocheco River



Property Information

Location	MIDDLE RD
Owner	WATERSIDE LAND HOLDINGS LLC
Land Use	
Zoning Code	R-40
Property Id	M0091-C00000

MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT

City of Dover, NH makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Geometry updated 10/30/2023
Data updated Daily

Print map scale is approximate. Critical layout or measurement activities should not be done using this resource.

PERMIT SNAPSHOT REPORT COND-2023-0067
FOR CITY OF DOVER, N.H.

Permit Type	Conditional Use	**Project:**		**App Date:**	12/22/2023
Work Class:	Environmental	**District:**	None	**Exp Date:**	NOT AVAILABLE
Status:	In Review	**Square Feet:**	0.00	**Completed:**	NOT COMPLETED
Valuation:	$0.00	**Assigned To:**	Blonigen, Rachel	**Approval Expire Date:**	

Description: R169 Utility Transmission Line Structure Replacement Project is a 3.5 mile long rebuild of 18 structures within the Right-of-Way. The project involves accessing and building construction pads or placing timber matting over wetlands and sensitive fields on order to complete work.

Parcel: M0092-B00000 Main	**Address:** Cullen Bay Rd Main Dover, 03820	**Zone:** R-40(Residential - Rural)

Plan Preparer	Applicant	Owner	Project Manager
Andrew W Ackerman 5 Dartmouth Dr Ste 200 Ste 200 Auburn, NH 03032 Business: (603) 877-8198	Andrew W Ackerman 5 Dartmouth Dr Ste 200 Ste 200 Auburn, NH 03032 Business: (603) 877-8198	Travis Yandow Home: (603) 634-2243 Business: (603) 634-2243	Travis Yandow Home: (603) 634-2243

Permit Custom Fields

Select Permit Type	Wetland Protection District	General Purpose	Alteration / Addition	Project Zone	Mixed Use
What is the parcel zoned?	R-40	New Change in Impervious/Paved Area (sq ft)	0	Work	R169 Utility Transmission Line Structure Replacement Project is a 3.5 mile long rebuild of 18 structures within the Right-of-Way. The project involves accessing and building construction pads or placing timber matting over wetlands and sensitive fields on order to complete work.
permitstatefed	The project involves temporary and minor permanent impacts to Wetland Protection District buffer areas and some temporary impacts to wetlands from timber matting placement during summer/fall months. The Wetland and Conservation District overlaps in some areas of the project and therefore both districts have temporary impacts.				

Attachment File Name	Added On	Added By	Attachment Group	Notes
Signature_Andrew_Ackerman_12/22/2023.jpg	12/22/2023 18:04	Ackerman, Andrew		Uploaded via CSS
Permit Snapshot Report.pdf	12/22/2023 18:04	Service, EnerGov		Attached by IO - ATTACH: Initial Permit Snapshot
2024.01.25_PlanningTechnicalReviewCommittee.Eversource_CUPs.pdf	01/31/2024 16:22	Blonigen, Rachel		Draft TRC Minutes

Invoice No.	Fee	Fee Amount	Amount Paid
INV-00006275	Planning General Application Fee	$200.00	$200.00
	Total for Invoice INV-00006275	$200.00	$200.00

PERMIT SNAPSHOT REPORT (COND-2023-0067)

Grand Total for Permit	**$200.00**	**$200.00**

Submittal Name	Status	Received Date	Due Date	Complete Date	Resubmit	Completed
Conditional Use Review v.1	Approved	01/02/2024	01/30/2024	01/02/2024	No	Yes

Item Review Name	Department	Assigned User	Status	Assigned Date	Due Date	Completed Date
Planning	Planning	Kaspari, Jackson	Approved	01/02/2024	01/30/2024	01/02/2024

Workflow Step / Action Name	Action Type	Start Date	End Date
Review v.1		01/02/2024 13:36	01/02/2024 13:37
Confirm application complete v.1	Generic Action		01/02/2024 13:37
Conditional Use Review v.1	Receive Submittal	01/02/2024 0:00	01/02/2024 13:37
Planning Board v.1		02/21/2024 13:03	
Planning Board Agenda v.1	Task	02/21/2024 13:03	
Invoice for Notices v.1	Task		
Send Notices v.1	Task		
Planner Creates Staff Recommendations v.1	Permit Activity		
Distribute Planning Board Materials v.1	Task		
Planning Board Hearing v.1	Hold Hearing		
Planning Board Decision v.1	Permit Activity		
NOD Sent to Applicant v.1	Create Report		
Issue Permit v.1			
Verify Fees Prior to Permit v.1	Generic Action		
Issue and Review Permit v.1	Generic Action		
Print and Email Permit v.1	Generic Action		
Plans uploaded to Treeno v.1	Generic Action		
Internal Notification of Plan Completion v.1	Generic Action		
Recording v.1	Task		

R169 Structure Replacement Project
Dover, New Hampshire

Conditional Use Permit Application

Part 5 of 5

December 22, 2023

Prepared for:

Public Service Company of New Hampshire d/b/a Eversource Energy
13 Legends Drive
Hooksett, NH 03106

Prepared by:

Stantec Consulting Services Inc.
30 Park Drive
Topsham, ME 04086

City of Dover, New Hampshire
CONDITIONAL USE PERMIT APPLICATION

[Revision Date: October 19, 2020]

Office Use Only	Project #:		Date Received:	
	Amount Paid:		Time Received:	

APPLICANT AND OWNER INFORMATION

Name of Applicant: Public Service Company of NH d/b/a Eversource Energy Telephone # 603-634-2243

Address of Applicant: 13 Legends Drive, Hooksett, NH 03106

E-Mail Address: Travis.Yandow@Eversource.com

Name of Property Owner (if different from applicant): same as above Telephone # same as above

Address of Property Owner: same as above

PROPERTY INFORMATION

Assessor's Map # B31-003 Lot(s) # Multiple

Address of Property: Existing R169 transmission line ROW--Cullen Bay Road to Back River Road

Zoning District(s) R-40, R-12, CWD Overlay District(s) Wetland Protection

Rural Residential, Medium Density, Residential, Urban Density Multi Residential, Cocheco Waterfront District

Existing Use of Property: Electric transmission line ROW

CONDITIONAL USE PERMIT INFORMATION

Type of Conditional Use Permit (Check All That Apply):

☐ Conservation District	☐ RCM Use Overlay District	☐ Gateway District
☐ Groundwater Protection	☐ Off-Street Parking and Loading	☐ Alternative Treatment Center
☒ Wetland Protection District	☐ Central Business District	☐ Heritage Residential District

Describe Proposed Use or Activity That Requires Conditional Use Permit and Describe Any Impacts:

Impact Area 5/Sheet 5: Eversource is proposing to replace one structure (structure 6) along their existing R169 utility transmission line in Dover as it traverses southeast at Cullen Bay Rd and continues southeasterly to the Piscataqua River. This wooden structure requires replacement due to age, cracking, leaning, and/or woodpecker damage. The existing structure will be replaced with new weathering steel structure to provide a more reliable electrical infrastructure. The new structure requires construction of a work pad and access roads. In wetland areas timber matting is used to temporary work over these sensitive resources. In Area 5, as a result of the large wetland (W18-PSS) around proposed structure 6, matting will be utilized to minimize access impacts within the ROW. The structure 6 work pad is also entirely within the delineated wetland and will be completely matted. The only impacts in this area are within the Wetland Protection District. In the wetland areas, 29,676 square feet of temporary impact is proposed as a result of work pad and access road matting across a the large wetland (W18-PSS) at structure 6. Approximately 942 square feet of temporary impact is proposed in the wetland buffer areas as a result of the upland matting needed to protect farmland. When needed, these areas will require pre-construction erosion/ sediment control BMPs and monitoring throughout for effectiveness. See attached application narrative and supporting documents for more details.

List Any Associated State or Federal Permits That Have Been or Will Be Applied For and Indicate Their Status: NHDES: Alteration of Terrain; Wetlands Utility Statutory Permit by Notification; Shoreland Permit by Notification; USACE Pre-application Construction Notification; USACE Section 408 Variance to Fed. Navigation Project.

Name of Professional That Prepared Plans: Tom Tetreau, NH Certified Wetland Scientist

Address 30 Park Drive, Topsham, ME 04086 Telephone #: 207-504-7231

Professional License #: 283 E-mail address: tom.tetreau@stantec.com

SIGNATURES

I/We hereby submit this application to the City of Dover Planning Board and attest that to the best of my knowledge all of the information on this application form and in the accompanying application materials and documentation is true and accurate. As applicant or as agent, I attest that I am duly authorized to act in this capacity.

Signature of Property Owner: _____ Date: 12/20/2023

Signature of Applicant (if different from owner): _____ Date: _____

Signature of Agent: _____ Date: 12/20/2023

AUTHORIZATION TO ENTER SUBJECT PROPERTY

I, and my successors, hereby authorize members of the Dover Planning Board, Planning Department and other pertinent City Departments and boards to enter my property for the purpose of evaluating this application, including performing inspections during the application phase, post-approval phase, construction phase and occupancy phase. It is understood that these individuals must use all reasonable care, courtesy, and diligence when on the property.

Signature of Property Owner: _____ Date: 12/20/2023

CITY OF DOVER CONDITIONAL USE
LIST OF ABUTTERS

Pursuant to RSA 676:4, the State Law of New Hampshire, the City of Dover is required to notify the applicant, abutters (including holders of conservation easements), and any professional whose seal is on the plan, of the public hearing by certified mail, return receipt requested. Staff will provide the abutter information, while the applicant must provide accurate contact information for the owner, applicant and professional agents representing the project.

Owner:

TAX MAP	LOT #	PROPERTY OWNER	MAILING ADDRESS
Multiple		Kurt Nelson, Eversource Energy	13 Legends Drive, Hooksett, NH 03106

Applicant (if different from owner):

APPLICANT NAME	APPLICANT COMPANY	MAILING ADDRESS

Surveyor and/or Engineer/Professional Agent:

NAME	COMPANY	MAILING ADDRESS
Tom Tetreau, NH Certified Wetland Scientist	Stantec	30 Park Drive, Topsham, ME 04086

Conservation Easement Holder:

TAX MAP	LOT #	NAME OF EASEMENT HOLDER	MAILING ADDRESS

COND-2023-0067 **Cullen Bay Road to Cocheco River**

Property ID	Location	Owner 1	Owner 2	Owner Address 1	City	State	Zip
M0089-000000	315 MIDDLE RD	GAGNON SCOTT C TRUSTEE	GAGNON SCOTT REVOCABLE TRUST	315 MIDDLE RD	DOVER	NH	03820
M0089-C00000	291 MIDDLE RD	SPALDING MELISSA		291 MIDDLE RD	DOVER	NH	03820
M0089-D00000	309 MIDDLE RD	HACKETT THEODORE S &	HACKETT CYNTHIA A	309 MIDDLE ROAD	DOVER	NH	03820
M0089-E00000	297 MIDDLE RD	MAMIGONIAN CARL H & SHARON J TRUSTEES	MAMIGONIAN CARL AND SHARON REVOCABLE LIV	297 MIDDLE RD	DOVER	NH	03820
M0089-F00000	319 MIDDLE RD	GITSCHIER HELEN C		319 MIDDLE RD	DOVER	NH	03820
M0090-A00003	20 ISAAC LUCAS CR	DICKSON DAVID K & DIANE N TRUSTEES	DICKSON REV TRUST	20 ISAAC LUCAS CR	DOVER	NH	03820
M0090-A00005	16 ISAAC LUCAS CR	SPURLING ERIC A TRUSTEE	SPURLING ERIC A LIVING TRUST	16 ISAAC LUCAS CR	DOVER	NH	03820
M0090-A00006	10 ISAAC LUCAS CR	SCHELLER P KARL & PATRICIA A TRUSTEES	SCHELLER FAMILY TRUST	10 ISAAC LUCAS CR	DOVER	NH	03820-4910
M0090-A00008	6 ISAAC LUCAS CR	COVERT WILLIAM D &	COVERT PAIGE C	6 ISAAC LUCAS CR	DOVER	NH	03820
M0090-A00010	8 ISAAC LUCAS CR	HOLDEN KEVIN F &	HOLDEN DEBORAH E	8 ISAAC LUCAS CIRCLE	DOVER	NH	03820
M0090-D00009	ISAAC LUCAS CR	BRICKYARD ESTATES/DOCK OWNERS	C/O REGINALD FITZGERALD	10 BRICKYARD DR	DOVER	NH	03820
M0090-D00010	22 ISAAC LUCAS CR	COOK N MILES III &	COOK AMANDA	22 ISAAC LUCAS CR	DOVER	NH	03820-4910
M0090-D00013	22 A ISAAC LUCAS CR	CITY OF DOVER		288 CENTRAL AV	DOVER	NH	03820
M0090-E00000	18 ISAAC LUCAS CR	DUGAS JANE M TRUSTEE	DUGAS JANE 2011 REVOCABLE TRUST	18 ISAAC LUCAS CR	DOVER	NH	03820
M0090-H00000	24 ISAAC LUCAS CR	EVERETT DONNA MARIE		24 ISAAC LUCAS CIR	DOVER	NH	03820
M0090-K00000	12 ISAAC LUCAS CR	GABARRO SETH RAFAEL &	GABARRO ANTHONY PHILIP	12 ISAAC LUCAS CR	DOVER	NH	03820-4910
M0090-N00000	14 ISAAC LUCAS CR	STEVENS CHRISTOPHER L		14 ISAAC LUCAS CR	DOVER	NH	03820
M0090-S00000	2 ISAAC LUCAS CR	BURLAGE KENNETH &	BURLAGE JACQUELYN KC	2 ISAAC LUCAS CR	DOVER	NH	03820-4910
M0090-X00000	320 MIDDLE RD	ROCHEFORT JEFFREY R		320 MIDDLE ROAD	DOVER	NH	03820
M0091-000000	286 MIDDLE RD	STRANGE EDWARD S TTS	FRENCH FARM 2023 REV TRUST	286 MIDDLE RD	DOVER	NH	03820
M0091-A00000	290 292 MIDDLE RD	TOWNSQUARE MEDIA PORTSMOUTH LLC		PO BOX 576	DOVER	NH	03821-0576
M0091-B00000	278 MIDDLE RD	MCKENNA JAMES F & JOANNE E TRUSTEES	MCKENNA JAMES AND JOANNE REVOCABLE LIVIN	278 MIDDLE ROAD	DOVER	NH	03820
M0092-B00000	CULLEN BAY RD	CULLEN BAY HOMEOWNERS ASSC	C/O MICHELLE TROCHALAKIS TREASURER	7 CULLEN BAY RD	DOVER	NH	03820
M0092-C00000	408 BACK RD	ENDRIZZI MATTHEW G &	ENDRIZZI SUSAN I	408 BACK ROAD	DOVER	NH	03820
M0092-C00001	398 BACK RD	CYR ROBERT A	BARRY PATRICIA	398 BACK RD	DOVER	NH	03820
M0092-F00000	4 CULLEN BAY RD	REID ELAINE B & ALTMEYER SHARON CO-TRUST	REID ELAINE B REVOCABLE LIVING TRUST	4 CULLEN BAY RD	DOVER	NH	03820
M0092-G00000	6 CULLEN BAY RD	HEBERT MARIE V TRUSTEE	HEBERT MARIE V REVOCABLE TRUST	6 CULLEN BAY RD	DOVER	NH	03820
M0102-000000	277 MIDDLE RD	DRISCOLL BRENDAN C		277 MIDDLE RD	DOVER	NH	03820
M0102-001000	268 MIDDLE RD	MINEROWICZ EDWARD & MARCIA TRUSTEES	THE RED ISLAND TRUST	268 MIDDLE RD	DOVER	NH	03820
M0102-003000	411 BACK RD	RICCI DANIEL M &	SEAVEY AMANDA C	411 BACK ROAD	DOVER	NH	03820
M0102-004000	405 BACK RD	WOOD RACHEL B &	WOOD ANDREW C	405 BACK RD	DOVER	NH	03820
M0102-012000	HAYDEN DR	CATHERINEBERG CONDOMINIUM UNIT OWNERS AS		38 BEECHWOOD DR	STRAFFORD	NH	03884
M0102-012DRV	HAYDEN DR	100 BROWNING LLC		38 BEECHWOOD DR	STRAFFORD	NH	03884
M0091-C00000	MIDDLE RD	WATERSIDE LAND HOLDINGS LLC	C/O SUMMIT LAND DEVELOPMENT LLC	340 CENTRAL AVE STE 202	DOVER	NH	03820
M0092-A00000	BACK RD	LANGS PATRICIA		10 HAWTHORN ROAD	DOVER	NH	03820
M0092-H00000	CULLEN BAY RD	HEBERT MARIE V TRUSTEE	HEBERT MARIE V REVOCABLE TRUST	6 CULLEN BAY RD	DOVER	NH	03820
M0104-000000	BACK RD	TODD HEATH J TRUSTEE	TODD HEATH J REVOCABLE TRUST	402 WEBBER HILL RD	KENNEBUNK	ME	04043
		STANTEC	ANDREW ACKERMAN	5 DARTMOUTH DRIVE SUITE	AUBURN	NH	03032

Stantec Consulting Services Inc.
30 Park Drive, Topsham ME 04086-1737

December 22, 2023

Project/File: 195602676

Attention: Donna Benton
Planning Director
288 Central Avenue
Dover, NH 03820
d.benton@dover.nh.gov

Reference: Conditional Use Permit Application, Eversource Energy, R169 Structure Replacement Project, Dover, New Hampshire

Dear Ms. Benton and Planning Board Members,

On behalf of the Public Service of New Hampshire d/b/a Eversource Energy (Eversource), Stantec Consulting Services Inc. is filing five Conditional Use Permit (CUP) applications for necessary structure replacements as part of the R169 Structure Replacement Project (Project) in the City of Dover. Eversource has identified 18 existing structures along the existing R169 transmission line right-of-way (ROW) in Dover that require replacement due to deterioration from age, cracking, leaning, rot, and/or woodpecker damage.

Portions of the proposed Project are located within the Conservation District and the Wetlands Protection District, as described in the Dover Zoning Ordinance, Articles 170-27 and 170-27.1, respectively. CUPs may be granted within utility ROWs in the Conservation District in accordance with Article 170-27 Section C (1), and in the Wetlands Protection District in accordance with Article 170-27.1 Section F (1):

> "Article 170-27 Section C (1): *Conditional Use Permits may be granted by the PLANNING BOARD for the following uses within the* ***Conservation District****: (1) STREETs, roads and other access ways and utility rights-of-way, communications equipment, easements, including power lines and pipe lines, if essential to the productive use of land not so zoned and if so located and constructed as to minimize any detrimental impact of such uses upon the wetlands or other environmentally sensitive areas, where it is physically impossible to locate such ways over land not so zoned."*
>
> "Article 170-27.1 Section F (1): *Conditional use approval may be granted by the PLANNING BOARD (RSA 674:21II) after proper public notice and public hearing, for construction within the* ***Wetland Protection District*** *or buffer. Said construction may include but is not limited to, a road or other accessway, utility right-of-way, communication lines, power lines and pipelines, STRUCTUREs, and parking LOTs provided that the proposed construction complies with the following standards [emphasis added.]*

Therefore, Eversource is requesting the CUPs for activities and temporary impacts to wetland buffer areas within the Conservation District and the Wetlands Protection District and has outlined compliance with City of Dover zoning standards in the attached project narrative, which is being submitted in accordance with Articles 170-27 and 170-27.1 of the zoning ordinance. These five CUP applications (one per project map sheet) are being submitted, in total, for approximately 19,734 square feet (0.45 acres) of temporary tidal

Reference: Conditional Use Permit Application, Eversource Energy, R169 Structure Replacement Project

buffer resource impacts (to be restored) and 1,515 square feet (0.03 acres) of temporary stream buffer resource impacts (timber matting) in the Conservation District. In the Wetland Protection District, the following impacts are anticipated: approximately 56,885 square feet (1.31 acres) of temporary wetland impacts (matting), 26,838 square feet (0.62 acres) of temporary impacts within wetland buffers (matting), and 29,941 square feet (0.69 acres) of permanent impacts within upland wetland buffer areas for gravel access road and work pad construction.

The proposed work is for direct “in-kind” replacements of cracked and damaged poles, and no new pole locations are proposed within the R169 ROW in Dover. New structures will be in the same general footprint as existing and do not represent a significant footprint expansion within the Conservation District and the Wetlands Protection District or consist of substantial disturbances beyond those historically created by the transmission line. Disturbed areas will be protected with erosion and sediment control measures, and strategies will be implemented to stabilize and allow for re-vegetation of exposed soils.

This submittal includes a digital copy of each of the five CUP application packages. The filing fee of $1,000 ($200 per application x 5 CUP applications [one per project map sheet]) is included in the online submittal with this application. We understand that the City of Dover will calculate and invoice for abutter and notice fees; therefore, we have assumed these fees will be paid at a later date and have not included them with this application.

Additional state and federal wetland and shoreland permit applications are being prepared and submitted for the Project. Permit approvals will be forwarded to the City of Dover as required and/or requested.

Sincerely,

STANTEC CONSULTING SERVICES INC.

Jess S. Hunt
Senior Associate, Environmental Services
Phone: (603) 557-4662
jessica.hunt@stantec.com

Andrew Ackerman
Senior Environmental Scientist, Environmental Services
Phone: (603-413-7731
andrew.ackerman@stantec.com

Attachment: Conditional Use Permit Applications

cc. Travis Yandow and Kurt Nelson, Eversource

Conditional Use Permit Application

R169 Structure Replacement Project
Dover, New Hampshire

December 22, 2023

Prepared for:

Public Service Company of New Hampshire d/b/a Eversource Energy
13 Legends Drive
Hooksett, NH 03106

Prepared by:

Stantec Consulting Services Inc.
30 Park Drive
Topsham, ME 04086

Table of Contents

1.0 PROJECT INTRODUCTION AND PURPOSE 1

2.0 EXISTING CONDITONS 2

3.0 PROJECT DESCRIPTION AND PROPOSED CONDITIONS 3
3.1 LINE REBUILD: STRUCTURE REPLACEMENT, CONDUCTOR AND OPGW REPLACEMENT 3
3.2 ACCESS 4
3.2.1 Road Construction 4
3.2.2 Wetland and Upland Temporary Matting 4
3.2.3 Work Pad Construction 5
3.3 CONSTRUCTION SEQUENCE 5
3.4 BEST MANAGEMENT PRACTICES 6
3.4.1 Erosion and Sedimentation Control 6
3.4.2 Invasive Species Control Plan 6
3.4.3 Construction Observation and Post Construction Monitoring 6

4.0 OVERLAY ZONING DISTRICT IMPACTS AND ACTIVITIES 7
4.1 WETLAND PROTECTION DISTRICT 8
4.2 CONSERVATION DISTRICT 11
4.3 IMPACT AREAS 13
4.3.1 Impact Area 1 13
4.3.2 Impact Area 2 14
4.3.3 Impact Area 3 14
4.3.4 Impact Area 4 14
4.3.5 Impact Area 5 14

LIST OF FIGURES

Figure 1 USGS Site Location

R169 – Dover CUP Permit Map Set, Dover, NH

LIST OF APPENDICES

APPENDIX A WETLAND DELINEATION REPORT

1.0 PROJECT INTRODUCTION AND PURPOSE

Public Service Company of New Hampshire d/b/a Eversource Energy (Eversource) owns and maintains the R169 electrical transmission line that passes through Dover, New Hampshire. Eversource has identified 19 existing wooden structures that need to be replaced on the R169 line (18 in Dover, New Hampshire, and 1 in Eliot, Maine) due to age, cracking, leaning, rot, and/or woodpecker damage, which constitutes the proposed R169 Structure Replacement Project (Project). The existing wooden structures will be replaced with new, steel structures that adhere to current safety and electrical codes to provide more reliable electrical infrastructure.

The R169 Line right-of-way (ROW) begins at the Three Rivers Substation in Eliot adjacent to the Piscataqua River and traverses westerly over the river into Dover, then continues westerly through Dover approximately 3 miles for the remainder of the length of the transmission line to the Dover Substation.

Chapter 170 of the local Zoning Ordinance of the City of Dover, New Hampshire, establishes regulations and guides appropriate use of land. The existing utility ROW and proposed structure replacement activities in Dover bisect various city zoning districts, including the Rural Residential (R-40), Medium Density Residential (R-12), and Urban Density Multi Residential (RM-U) zoning districts and the Cocheco Waterfront District (CWD). The ROW and proposed Project activities also intersect two natural resource protection overlay districts—the Conservation District (per Article 170-27) and the Wetland Protection District (per Article 170-27.1). The purpose of these two overlay districts is to avoid and minimize development impacts to, and similarly conserve, local rivers, streams, wetlands, and flood-prone or steep, erosion-prone areas of Dover. The Project has taken into consideration each the objectives of these overlay districts in the development of construction plans and activities around the identified sensitive resources.

The proposed Project activities require a Conditional Use Permit (CUP) from the City of Dover (hereafter, City) Planning Board for those activities that occur within the Conservation District and the Wetland Protection District per the City's Local Zoning Ordinance (as amended, September 2022) and subsequent guidance from the City Planning and Community Development Department. This CUP application presents the applicable information associated with the Project. In addition to the 18 proposed replacement structures in Dover, Eversource previously identified five utility structures for replacement along the R169 line. A CUP application (#406-22) for the replacement of those five structures was submitted to the City in July 2022 and approved by the Planning Board on July 21, 2022. Replacement of those five structures has been completed.

In accordance with NH RSA 482-A:3 XV, routine utility maintenance work is exempt from the standard NH wetland permit process. However, Eversource is required to submit a Utility Maintenance Activity Statutory Permit-by-Notification, Shoreland Permit-by-Notification, and Alteration of Terrain permit application to the New Hampshire Department of Environmental Services (NHDES) to cover the temporary wetland impact associated with use of timber matting within wetlands required to

complete the proposed structure replacement work, impacts within the developed portions of the Protected Shoreland of the Cocheco River, and proposed upland ground disturbance.

2.0 EXISTING CONDITONS

The existing cleared R169 ROW varies from approximately 100 feet (ft) in most areas to 250 ft wide where the ROW is shared with additional transmission lines near the Piscataqua River. The Project ROW consists of Eversource fee-owned property or Eversource-controlled easements. From the Piscataqua River to the Dover Substation, the ROW traverses westerly through forested, residential, and agricultural landscapes. The ROW primarily crosses rural areas and local roads, as well as the Cocheco River and the Piscataqua River. The topography varies from flat lowlands and fields to undulating hills and steep side slopes. Elevations range from 0 to 90 ft above mean sea level. Soils within the ROW consist primarily of loam and silty loam (see attached CUP plans).

The open upland natural communities in the ROW consist of early successional shrub, sapling, and herbaceous species. Characteristic woody vegetation includes gray birch (*Betula populifolia*), quaking aspen (*Populus tremuloides*), red maple (*Acer rubrum*), sheep-laurel (*Kalmia angustifolia*), late lowbush blueberry (*Vaccinium angustifolium*), white meadowsweet (*Spiraea alba*), Allegheny blackberry (*Rubus allegheniensis*), American hazelnut (*Corylus americana*), red oak (*Quercus rubra*), and red raspberry (*Rubus idaeus*). Commonly observed herbaceous vegetation in the ROW includes little Canada mayflower (*Maianthemum canadense*), wrinkle-leaf goldenrod (*Solidago rugosa*), Canada goldenrod (*Solidago canadensis*), bracken fern (*Pteridium aquilinum*), hay-scented fern (*Dennstaedtia punctilobula*), wild strawberry (*Fragaria virginiana*), bristly dewberry (*Rubus hispidus*), Kentucky blue grass (*Poa pratensis*), and other common grass and wildflower species. Non-native invasive species such as rambler rose (*Rosa multiflora*), Japanese barberry (*Berberis thunbergii*), Morrow's honeysuckle (*Lonicera morrowii*), and glossy false buckthorn (*Frangula alnus*) are present in moderate abundance.

Stantec consulted with the New Hampshire Natural Heritage Bureau, the New Hampshire Fish and Game Department, and the US Fish and Wildlife Service as required for NHDES and US Army Corps of Engineers (USACE) permitting. There were three state-listed wildlife species, three state-listed plant species, and three federally listed wildlife species noted in the vicinity of the Project. Eversource proposes to follow agency recommendations and permit conditions as part of this Project and will conduct recommended surveys as needed.

One potential vernal pool and 23 wetlands were identified within the ROW during a delineation conducted by Stantec (Tom Tetreau, New Hampshire Certified Wetland Scientist #283) in June 2023; results of the wetland survey can be found in Appendix A.

The 307 transmission line ROW intersects the R169 ROW from the south near proposed structure 6 to the Piscataqua River; the nearby 307 line ROW will be utilized for access only. Existing access roads traverse portions of both ROWs. These access roads are unpaved with mostly a loamy sand base with occasional stretches consisting of previously installed stone. The access roads are generally 8 to 12 ft wide in most areas.

Routine vegetation maintenance is performed along the R169 ROW on an approximate 4- to 5-year cycle. The last vegetation maintenance was performed along portions of the R169 ROW in summer 2023. Trees and shrubs capable of growing to heights that could interfere with conductors are trimmed and allowed to regenerate until the next maintenance cycle. Prior to the start of construction, areas around proposed access roads and pads will need additional mowing within the ROW.

3.0 PROJECT DESCRIPTION AND PROPOSED CONDITIONS

3.1 LINE REBUILD: STRUCTURE REPLACEMENT, CONDUCTOR AND OPGW REPLACEMENT

The proposed Project includes replacement of 18 existing wooden transmission line structures along the R169 line in Dover. The replacement (new) structures will be within 10 ft of the previous structure location, with two exceptions: proposed structure 13 will be approximately 140 ft from the existing structure location to avoid wetland and impacts, and proposed structure 20 will be approximately 40 ft from the existing location. A majority of the new structures will be approximately 5 to 10 ft taller than the previous structures to comply with current electrical standards. The one structure proposed for a reduction in height is structure 27, within the shoreland of the Cocheco River, which will be reduced from the current 135 ft to 120 ft. The shorter structure allows for a reduced construction footprint and minimizes potential impacts to the sensitive shoreland area.

The structure replacement process consists of drilling holes near the existing structures and installing a caisson, also referred to as a can, below the ground surface. The new structure is installed in the can and backfilled with clean, suitable rock or gravel material. Spoils produced from drilling the hole will be disposed of in an approved upland location away from wetland areas and will be stabilized with an appropriate conservation/contractor's seed mix and weed-free straw mulch. Some replacement structures may require anchors. Anchors will be installed by excavating trenches, installing concrete block anchors, and backfilling trenches. If soil conditions allow, screw anchors may be installed to minimize ground disturbance. Temporary swamp mats (i.e., matting) will be utilized to access structures located within delineated wetlands or wetland areas that must be crossed for access. Mats will also be used on some occasions to minimize impacts to maintained yards or farmed upland areas. Once the new structure is installed and stable, the wires from the old structure will be transferred to the new structure. Old structures will be cut and removed from the ground in upland locations. To minimize ground disturbance, old structures in wetlands are typically cut flush with the ground surface. In some cases, the bottom of the old structure may be able to be pulled from the wetland with minimal disturbance to the wetland. All construction materials and old structure pieces will be removed and disposed of off-site at an approved disposal facility.

Following completion of the structure replacement and wire work, temporary timber construction mats will be removed. Disturbed wetland areas will be restored and stabilized with weed-free straw mulch. Temporarily disturbed upland areas will also be restored and stabilized through seeding and mulching. Permanently disturbed wetland buffer areas will remain as permanent features. Seed and mulch will be

applied along the shoulders and side slopes of the access roads as necessary and the established access roads will be left in place, with the exception of the area around proposed structures 27 and 28, which will be entirely restored. The work pads and new access road between proposed structures 27 and 28 will be re-contoured to the existing grade, covered with topsoil that was stockpiled during the initial grading, and stabilized with seed and mulch.

Minor tree clearing is proposed as maintenance within the existing access road off Cocheco Street and within the existing ROW near proposed structures 27 and 28 as part of the Project. The Project will submit a Protected Shoreland Permit by Notification to address proposed selectively cut trees in the upland shoreland areas.

3.2 ACCESS

The proposed Project utilizes existing access roads within the R169 line ROW and existing access within the 307 line ROW wherever possible. The majority of the existing access roads are made up of dirt or gravel areas and are proposed to be improved, as necessary, through the addition of clean stone as part of the Project to allow for construction vehicle access. Proposed access roads are shown on the attached map set. Access road entrances are located off local roadways and utilize existing entrances wherever possible. Driveways permits are not anticipated to be required from the City. There are no state-owned roads in the project area; therefore, temporary driveway permits from the New Hampshire Department of Transportation will not be required for construction. The proposed access roads were sited to minimize ground disturbance and temporary wetland impacts to the greatest extent practicable while providing safe and efficient access to the existing structures. Timber matting will be used to cross all wetland and stream resources that cannot be avoided completely.

3.2.1 Road Construction

Proposed upland access road improvements include construction of approximately 12- to 16-ft-wide gravel and stone roads within the ROW and in some cases adjacent to the ROW. The roads will provide access to existing utility structures for replacement activities. The improved access roads will provide reliable, permanent access to utility infrastructure during future maintenance or emergency repairs. Where possible, the proposed access roads will be located on top of existing dirt roads or trails. If no existing routes are available or suitable, a new road will be constructed. Minor grading may be necessary to remove large boulders and create a flat surface for the new rock or gravel.

Project plans require tree removal along the widening the existing access road off Cocheco Street to proposed structures 27 and 28 to a width of 12 ft to accommodate equipment for the structure replacements. Tree removal at this location will occur within the existing utility ROW and along the existing access road on Eversource property and will be conducted between November 1 and April 14 to avoid potential impacts to federally listed wildlife species if present.

3.2.2 Wetland and Upland Temporary Matting

Access through maintained fields and private property within uplands and delineated wetlands in the Project area will utilize temporary timber construction mats to minimize ground disturbance and prevent

rutting. Where necessary in overly saturated conditions, runners (mats placed parallel to the direction of travel) will be placed on the wetland surface prior to setting the top, perpendicular layer of mats. This will help reduce settling and overall wetland disturbance.

3.2.3 Work Pad Construction

The proposed Project includes construction of 18 structure replacement work pads approximately 100 ft by 100 ft each, with some exceptions. With the exception of work pads located within wetlands, upland work pads will be constructed using clean stone. The work pads will be top dressed with compacted 1.5- to 3-inch-diameter clean stone. After the structure replacement work is complete, restoration of upland work pads will consist of utilizing stockpiled topsoil to reduce work pads to approximately 30 ft by 60 ft. Restored areas will be stabilized with seed and mulch. Proposed work pads located in wetland areas will be constructed using temporary timber construction mats and will be removed upon completion of the work.

3.3 CONSTRUCTION SEQUENCE

The general Project construction sequence will be:

1. Installation of appropriate signage along public roads near construction entrances;
2. Installation of erosion control devices, as needed;
    a. Erosion control practices will follow the *Best Management Practices Manual for Utility Maintenance in and Adjacent to Wetland and Waterbodies in New Hampshire* (Utility BMP Manual) published by the New Hampshire Department of Natural and Cultural Resources (March 2019).
3. Placement of construction mats in wetlands for access roads and work pads;
4. Grading and improvements of upland access roads and work pads;
5. Stabilization (seed and mulch) of exposed soils on created side slopes;
6. Replacement of structures:
    a. Drill new structure holes;
    b. Install new poles and structure components;
    c. Transfer electrical lines from old structure to new structure; and
    d. Remove and haul away old structure.
7. Clean up excess/stockpiled material at work pads;
8. Smoothing/grading upland work pads and stabilizing and restoring with seed and mulch as necessary;
9. Removing construction mats from wetland areas and stabilizing/restoring disturbed wetland areas with weed-free straw mulch; and

10. Stabilization, restoration, and clean up staging areas and entrance points.

Provided necessary permits are in place and to the extent possible, work would begin in April 2024 and continue through fall 2024. Entrances, access roads, and work pads will be created prior to structure replacement work. New structure holes will likely be drilled prior to mobilization of structure replacement equipment (cranes, bucket trucks). Installing new poles and transferring wires will be completed prior to moving on to the next structure. Multiple structure replacement crews may be working in different areas to expedite the process. Removal of mats and restoration will occur as individual work areas are completed.

3.4 BEST MANAGEMENT PRACTICES

3.4.1 Erosion and Sedimentation Control

Work will be conducted in accordance with the Utility BMP Manual. Following these BMPs will minimize and avoid impacts to wetland and stream resources and the surrounding upland areas to the greatest extent practicable.

Perimeter erosion controls consisting of silt fence, straw wattles, mulch, and straw bales will be installed as necessary around the work areas to minimize potential impacts to adjacent resource areas. Water bars, also known as diversion ditches, will be installed along access roads with steep slopes, where necessary, to prevent water from traveling long distances down the road causing erosion. Water bars will direct water off the road into adjacent upland areas. Exposed soil created during construction will be stabilized with seed and mulch as soon as possible after active work in the area is complete. No equipment or material will be stored within wetland areas.

3.4.2 Invasive Species Control Plan

Due to the developed landscape surrounding the majority of the R169 line, invasive plant species occur within the ROW and were observed during field surveys. Contractors will follow the invasive species recommendations in the Utility BMP Manual to help prevent the spread of invasive species, including inspection and cleaning of equipment and contractor training. Equipment, including construction mats, brought to the Project area will be inspected by the contractor and/or environmental monitor, and if plant material or soil is present, the equipment will be cleaned and dried prior to use on the Project. Contractors will be familiar with identification of common invasive species and will be required to clean mats and equipment prior to their use elsewhere. If possible and without increasing wetland impacts, the contractors may also make slight shifts in access roads or work pads to avoid invasive species locations.

3.4.3 Construction Observation and Post Construction Monitoring

During construction, Eversource will contract an environmental monitor to perform routine construction observation visits. The environmental monitor will inspect the Project area for compliance with the Utility BMP Manual and applicable Project permits and conditions. Construction observation visits will occur at least once per week and/or after a significant rainfall (0.5 inches or greater) or snow melt event. Under the National Pollutant Discharge Elimination System, Eversource will file a Notice of Intent and

Stormwater Pollution Prevention Plan (SWPPP) under the U.S. Environmental Protection Agency's Construction General Permit. Construction observation visits and associated reporting will follow the SWPPP and Construction General Permit guidelines and be performed by a qualified individual familiar with the SWPPP, Utility BMP Manual, and Project specific permit conditions.

A series of post-construction monitoring visits in the Project area will be performed by a qualified environmental scientist to document that disturbed areas are properly stabilized and vegetation is beginning to regrow. Site restoration will be considered successful when there is at least 85% cover by native or non-invasive herbaceous plant species within the restored portions of the ROW, including restored wetland areas. This does not include gravel work pads or access roads that existed prior to construction or were created during construction, with the exception of the gravel work pads and road for proposed structures 27 and 28, which will be restored to natural grade, topsoil spread, and stabilized with seed and mulch. The environmental scientist will prepare a report following each post-construction monitoring visit that includes representative photographs and corrective actions (if applicable). Once the disturbed uplands and temporarily impacted wetlands within the Project area are determined to be permanently stabilized, post-construction monitoring will be considered complete, and a Notice of Termination will be filed under the U.S. Environmental Protection Agency's Construction General Permit.

4.0 OVERLAY ZONING DISTRICT IMPACTS AND ACTIVITIES

The ROW and proposed Project activities intersect natural resource protection overlay districts in Dover, including the Conservation District and the Wetland Protection District. The following summarizes the Project-specific components in the respective overlay districts.

Proposed temporary impacts to wetlands were minimized to the maximum extent practical during project planning. This included modifications to ROW access, reducing the size and positioning of the proposed utility poles, the utilization of timber matting and/or tracked equipment, and the location and orientation of work pads. Timber matting will be installed to completely span streams, where necessary, to avoid impacts to the stream bed and banks.

For the purposes of this CUP, resource impacts have been divided into 5 Impact Areas and corresponding map sheets, as shown per wetland and stream in the attached map set and in Table 1. Given the overlapping overlay districts and associated buffers, impacts were quantified in Table 1 below by direct resource impact and overlay district buffer impacts. The district buffers were established by taking the farthest buffer (such as when a stream channel is encompassed by a surrounding wetland, the larger Conservation District buffer was used).

Table 1: City of Dover Proposed Wetland Protection and Conservation District Impacts

District	Resource Impacts (SF)	Impact Area 1 (Map Sheet 1)	Impact Area 2 (Map Sheet 2)	Impact Area 3 (Map Sheet 3)	Impact Area 4 (Map Sheet 4)	Impact Area 5 (Map Sheet 5)
Wetland Protection District	Temporary Wetland Impact	-	742	23,279	3,188	29,676
	Temporary Wetland Buffer Impact	5,526	1,802	16,716	1,852	942
	Permanent Wetl and Buffer Impact*	-	-	29,941	-	-
Conservation District	Temporary Area Subject to Tidal Action Buffer Impact	19,734	-	-	-	-
	Temporary Stream Resource Buffer Impact	-	1,515	-	-	-
Overlapping Districts		5,526	773	-	-	-
	Total	**25,260**	**4,059**	**69,936**	**5,040**	**30,618**

*Based on 12-ft disturbance area for new gravel access
Overlapping Districts are illustrative of how much districts overlap and not part of total for each Map Sheet.

4.1 WETLAND PROTECTION DISTRICT

The Wetland Protection District includes all areas of wetlands and 50-ft wetland buffers, as defined in Dover Zoning Ordinance, Article 170-27.1. Project activities subject to a CUP that are within the Wetland Protection District are limited to temporary placement of timber mats in wetlands and at stream crossings and the creation of stone work pads and access road improvements in wetland buffer areas. New structures will be placed in the same general location as the existing structures, as described in section 3.1 above. The proposed access roads were sited along existing roads or trails wherever possible.

The Project will meet the following Wetland Protection District standards for Conditional Use Approval, as outlined in the Dover Zoning Ordinance, Article 170-27.1F(1).

(a) *Practicable Alternative: There is no practicable alternative that would have a less adverse impact on the area.*

The Project site is an existing transmission line within a utility ROW. The proposed structure replacement work is necessary to maintain reliability and safe operation of the existing R169 line. Alternative locations would require creation of a new ROW, and increased impacts to resources and the surrounding landscape and were not considered. The replacement structures must be located on the alignment of the existing transmission line and must be located within the existing ROW. The Project has been designed to reduce the footprint of the construction as much as

possible. For example, the proposed access route between structures 14 and 15 was designed to utilize a narrow upland area on the south side of the ROW to minimize wetland impacts as much as possible while maintaining required clearances for working equipment from overhead wires and adjacent tree lines. For example, in addition to reducing the height and footprint of proposed structure 27 near the Cocheco River, the Project proposes to move access roads to uplands where possible, completely restore impacted areas adjacent to the Cocheco River, smooth/grade upland work pads, and stabilize and restore with seed and mulch as necessary.

Upland work pads, other than those near the Cocheco River, are typically restored to an approximately 30-ft by 60-ft size. Topsoil pushed to the sides during the initial construction will be used to cover the work pads. Exposed soils will be stabilized with seed and mulch. Temporary construction mats will be removed from wetland areas as soon as work is complete and wetland areas will be stabilized/restored with weed-free straw mulch, if necessary. Matting will be removed in a similar manner to how it was installed.

(b) *Avoidance: The potential impacts have been avoided to the maximum extent practicable. The APPLICANT will demonstrate by plan and example that the proposed construction represents the least impacting alternative.*

The proposed structure replacements have been designed to avoid permanent fill and loss of wetland and stream areas by utilizing upland areas as much as possible and using temporary construction mats. The mats will result in minimal temporary disturbance of the shrub and herbaceous vegetation underneath, but the vegetation is expected to quickly recover following removal of the construction mats after construction is complete. Mats will be used to span streams and will not disturb streambanks or modify hydrology.

Wetlands will be protected from stormwater runoff through erosion and sedimentation control measures, and exposed soils will be stabilized in accordance with the measures discussed in Section 3.4.1. Additionally, appropriate siltation prevention measures will be implemented and inspected during construction and post-construction to prevent erosion, siltation, and turbidity. The erosion control methods and materials will follow the Utility BMP Manual. Perimeter controls (silt fence, straw bales, straw wattles, etc.) will be installed along the limits of work to protect adjacent resources and off-site area. If necessary, other BMPs including stone check dams and dewatering basins will be used to control and treat stormwater and prevent runoff to abutting or downslope properties.

The tidal wetland, wetland W02 associated with the Cocheco River, will be completely avoided by construction activities. Work will occur within the adjacent upland only, and erosion and sedimentation controls will be installed prior to ground disturbance to protect the wetland and river.

(c) *Minimization: Any unavoidable impacts have been minimized. No reasonable Alternative to the proposed construction exists which does not impact a wetland or which has less detrimental impact on a wetland. Design, construction and maintenance methods will be*

prepared by a registered engineer to minimize detrimental impacts to the wetlands and will include restoration of the site as nearly as possible to its original grade.

The Project is designed to replace existing infrastructure in an existing and maintained utility ROW. The Project does not propose any permanent impacts directly to surface waters or wetlands. Areas where district buffers are impacted have been reduced by using upland matting adjacent to wetlands in some areas and by reducing the overall footprint of structure work pads in others. Additionally, where ground disturbance and work area construction will occur near wetlands, appropriate erosion prevention measures will be implemented during construction and post-construction to prevent the migration of sediment laden runoff from reaching the adjacent wetlands. These areas will be inspected regularly for correct installation and to confirm that they remain effective erosion prevention measures.

The erosion control prevention and sediment control methods and materials will follow the Utility BMP Manual. Perimeter controls (silt fence, straw bales, straw wattles, etc.) will be used to protect adjacent resources and off-site areas. If necessary, other BMPs including stone check dams and dewatering basins will be used to control and treat stormwater and prevent runoff to abutting or downstream properties.

Temporary wetland and wetland buffer impacts will be avoided and minimized by following the Utility BMP Manual. This includes:

- Using wooden construction mats to support machinery in wetlands;
- Removing and restoring temporary impacts to wetlands, if necessary;
- Smoothing rutted areas, seeding as required, and mulching with weed-free straw;
- Using erosion and sediment controls as needed where ground disturbing activities are adjacent to wetland areas;
- Requiring contractors to follow practices outlined in the Utility BMP Manual to help prevent the spread of invasive species; and
- Conducting weekly inspections to monitor compliance with minimization measures and providing any site restoration recommendations as needed.

The new structure locations and associated structure components were designed by Eversource's engineers. Work and access roads were designed based on the results of the wetland delineation performed by a New Hampshire Certified Wetland Scientist and a constructability field review by Eversource engineers and construction personnel.

(d) Mitigation: If the APPLICANT is required by State rules to prepare a compensatory mitigation plan, the APPLICANT shall provide the Conservation Commission and PLANNING BOARD with one copy each of said plan for their review.

The Project will require temporary matting impacts to wetlands but will not result in permanent loss of any wetland area or permanent alterations to the wetland hydrology or associated vegetation; therefore, a compensatory mitigation plan is not proposed for the work in any of the

five Impact Areas. Additionally, the applicant has consulted with the NHDES Wetlands Bureau, which has concurred with the minimum impact determination for the R169 Project.

(e) *Approval for the wetlands impact has been received from the NHDES Wetlands Bureau pursuant to Section G (3), below.*

A Wetlands Utility Maintenance Activity SPN will be submitted for the Project. On November 16, 2023, Eversource met with the NHDES Wetlands Bureau and the USACE. During this meeting, a determination was made that the Project qualified for a 'minimum impact' since there are no permanent impacts to delineated wetlands, vernal pools, streams or other sensitive resources associated with the Project and Eversource will minimize temporary impacts and restore permanent upland impacts. The SPN application and NHDES and USACE permit approvals will be forwarded to the City as required and/or requested. Additional pending approvals are listed in Section 4.2 below.

4.2 CONSERVATION DISTRICT

The Conservation District includes water bodies, rivers, streams, swamps and marshes subject to tidal action and those areas within a minimum of 100 ft of each, as defined in Dover Zoning Ordinance, Article 170-27. The Conservation District also includes specific lots as defined in Article 170-27, as well as areas with slopes 20% and more than 2,000 square feet (sf) of contiguous area, neither of which is located within the Project area. Project activities subject to a CUP that are within the Conservation District are limited to temporary placement of timber mats at stream crossings and creation of stone work pads and access road improvements in river and stream buffer areas. New structures will be placed in the same general location as the existing structures. The proposed access roads were sited along existing roads or trails wherever possible.

The Project will meet the following Conservation District standards for Conditional Use Approval, as outlined in the Dover Zoning Ordinance, Article 170-27.C(2).

(a) The APPLICANT shall demonstrate that the proposed use is essential to the productive use of land not in the district; is located and constructed to minimize any detrimental impact of such use upon the surface waters or other environmentally sensitive areas, where it is physically impossible to locate such use on land not in the district; and economic advantage alone shall not be deemed a sufficient reason for such proposed use.

Approval of this CUP application would allow Eversource to maintain critical infrastructure necessary to provide the public with reliable electricity. The existing structures and line are currently located within the Conservation District and would remain as such following the structure replacements. The proposed Project is in the public's interest (versus economic advantage to Eversource) because the structure replacements will allow for the continued supply of reliable electricity to Eversource's customers. The avoidance and minimization efforts described above in section 4.1 for the Wetland Protection District also apply to the Conservation District.

(b) *A soil erosion and sedimentation control plan is submitted and followed to verify the planned avoidance of sediment pollutant runoff to bodies of water. This plan will address the following (if applicable), but should not be limited to:*

(i) stabilization of exposed soils and soil stockpiles;
(ii) protection of steep slopes from erosion;
(iii) construction site waste management;
(iv) inspection and maintenance of runoff control measures (BMPs);
(v) minimization of land clearing;
(vi) stabilization of drainage ways;
(vii) installation of perimeter controls;
(viii) installation of sediment trapping devices; and
(ix) storm drain inlet protection.

Erosion and sedimentation control practices will follow the Utility BMP Manual). Typical erosion and sedimentation controls devices used within the ROW may consist of silt fence, straw wattles, stone check dams, and/or hay and weed-free straw mulch stabilization. Erosion and sedimentation control notes and details are included on the attached map set. Approximate locations of erosion and sedimentation controls are shown around proposed work areas and access roads on the attached map set. Installation and maintenance of erosion and sedimentation controls will occur throughout the construction phase of the project. The controls will be inspected regularly by Eversource's contractors and environmental monitors and maintained and/or replaced as needed. Additional details are provided in sections 3.3 and 3.4 above.

(c) Necessary state and federal approvals have been applied for. Said permits shall be received prior to the issuance of the Conditional Use Permit by the Planning and Community Development Department.

Regulatory permits, approvals, and notifications required for the proposed Project are summarized below. The City will be provided copies of permit approvals when they are received. Given the review periods associated with some of the required permits, Eversource requests that the City condition approval of the CUP so that permit may be provided as they are received, rather than prior to the issuance of the CUP. The following state and federal permits are anticipated to be required for the Project:

- NHDES Utility Statutory Permit by Notification (submitted)
- NHDES Protected Shoreland Permit by Notification (pending submission)
- NHDES Alteration of Terrian Permit (submitted)
- USACE Pre-Construction Notification (pending submission)
- USACE Section 408 Variance Approval (pending)

(d) *A written review by the Conservation Commission of the environmental effects of the proposed use upon the area in question has been submitted. The Commission's review shall address the following, but is not limited to:*

(i) attempted avoidance of the impact;

(ii) minimization of the impact;

(iii) planned mitigation of the effects of the impact; and

(iv) efficacy of the soil erosion and sedimentation control plan.

Watercourses and surface waters have been avoided to the extent possible, and no alterations of banks or natural geomorphology are proposed. Temporary construction mats will be used to bridge, and avoid, stream areas; mats will be removed following construction. Conditions or requests for information related to environmental effects made by the local Conservation Commission will be documented and applied to the project where feasible.

4.3 IMPACT AREAS

Anticipated temporary and permanent impacts within the Conservation District and Wetland Protection District are summarized by Impact Area in Table 1 and described per area below. Each area corresponds with respective map sheets (Impact Area 1 corresponds with Map Sheet 1, etc.) in the attached CUP permit map set. Temporary impacts include timber matting and areas that will be restored post-construction, and permanent impacts within buffers are for gravel access road and work pad construction. Most of the impacts across the five impact areas (Map Sheets 1–5) occur in the Wetland Protection District and of those impacts 64% are temporary; the remaining 36% are permanent impacts in upland wetland buffer areas (see Impact Area discussions below for more details).

4.3.1 Impact Area 1

Within the Wetland Protection District, anticipated impacts in Impact Area 1 include approximately 5,526 sf of temporary impacts within wetland buffer areas of wetland W02 (overlaps 100% with areas subject to tidal action in the Conservation District), and approximately 19,734 sf of temporary impacts within the buffer area of areas subject to tidal action in the Conservation District. These temporary impacts associated with the creation of access roads and work pad construction are necessary to complete the replacement of proposed structures 27 and 28. Disturbances associated with these structure replacements will be fully restored once construction is complete, and no permanent impacts are anticipated in either District.

Impacts were avoided and minimized to the greatest extent practicable by minimizing the length of the new access road, locating access roads and work pads outside of wetland boundaries and wetland buffers, where possible, utilizing existing disturbances/access roads, and reducing the construction footprint and restoring areas along the Cocheco River shoreland that are within the Wetland Protection and Conservation Districts.

4.3.2 Impact Area 2

Within the Wetland Protection District, anticipated impacts in Impact Area 2 include approximately 742 sf of temporary wetland impacts (i.e., timber matting) and approximately 1,802 sf of temporary impacts in wetland buffer areas to cross wetland W11 and stream S04 along the access route between proposed structures 18 and 19. Within the Conservation District, approximately 1,515 sf of temporary impacts in stream buffer areas are anticipated. Overlapping buffer areas include approximately 773 sf of temporary impacts. Areas within and surrounding the Districts are existing fields and residential areas, and temporary upland matting will be used to avoid ground disturbance at the landowner's request. No permanent impacts are anticipated within either District.

4.3.3 Impact Area 3

Within the Wetland Protection District, anticipated impacts in Impact Area 3 include approximately 23,279 sf of temporary wetland impact (i.e., timber matting), approximately 16,716 sf of temporary impact in wetland buffer areas, and approximately 29,941 sf of permanent impact in wetland buffer areas to create the access road and work areas associated with proposed structures 13 through 18, across wetlands W12 through W16.

Impact Area 3 is the only Impact Area on the R169 line where upland buffer area impacts are proposed to be permanent (see Table 1 and Map Sheet 3 of 5). The permanent impacts are a result of the proposed 100-ft by 100-ft gravel work pads around proposed structures 14, 15, 16, and 18. In the case of the pads at proposed structures 14, 15, and 18, a portion of the 100-ft by 100-ft pad area will be gravel, with the remaining pad area constructed using temporary wetland matting. In these three locations, it is likely that the temporary matting will cover an even greater proportion of the pad area. Proposed structure 16 is the sole location where the entire pad is proposed to be gravel, and this location is entirely upland. No temporary or permanent impacts are anticipated within the Conservation District in Impact Area 3.

4.3.4 Impact Area 4

Within the Wetland Protection District, anticipated impacts in Impact Area 4 include approximately 3,188 sf of temporary wetland impact (i.e., timber matting) and approximately 1,852 sf of temporary impact in wetland buffer areas. Temporary impacts to wetlands and buffers include access across wetland W17 between proposed structures 9 and 10, and work areas and access in wetland W18 at proposed structure 7; no permanent impacts are anticipated due to landowner requests to use upland matting to protect existing field areas. No Conservation Districts are present in Impact Area 4.

4.3.5 Impact Area 5

Within the Wetland Protection District, anticipated impacts in Impact Area 5 include approximately 29,676 sf of temporary wetland impact (i.e., timber matting) and approximately 942 sf of temporary impact in wetland buffer areas to create work areas and access in wetland W18 associated with proposed structure 6; no permanent impacts are proposed. The Project will utilize an existing gravel access road from the 307 line ROW to proposed structure 6 to traverse through the Conservation Districts associated with

streams S05, S06, and S07 to avoid temporary and permanent impacts within those buffers. No work is proposed within the Conservation District associated with the Piscataqua River.

PHOTOGRAPHS

R169 STRUCTURE REPLACEMENT PROJECT
CUP APPLICATION - REPRESENTATIVE PHOTOGRAPHS

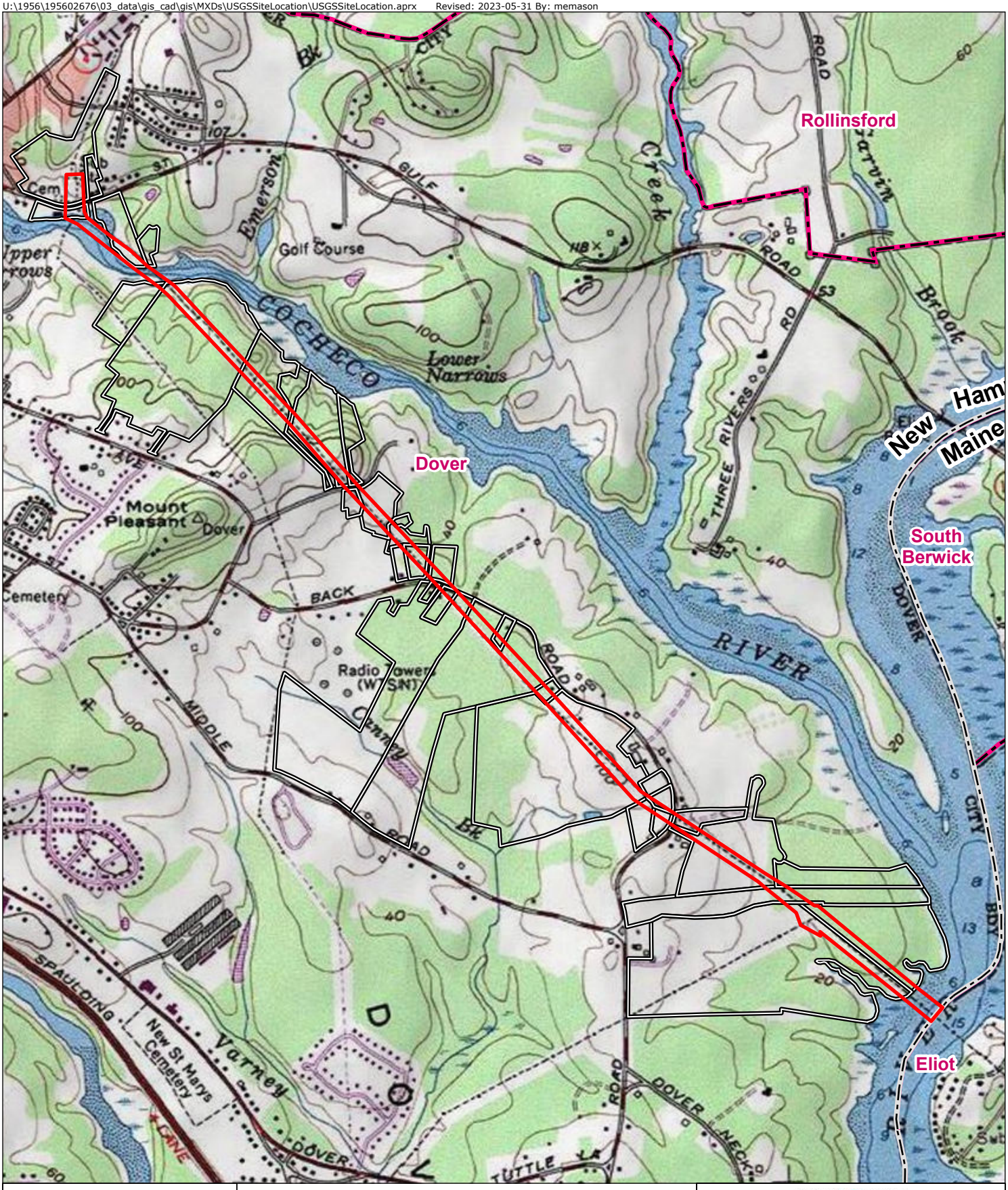
December 22, 2023

Photo 1. Representative view of the ROW and wetland W18. View west from proposed structure 6 towards proposed structure 7 (structure 7 is included in Impact Area 4 CUP application). Stantec. June 8, 2023.

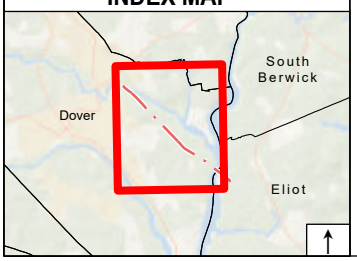
Photo 2. Scrub-shrub wetland habitat at proposed structure 6 prior to mowing. Stantec. June 8, 2023.

FIGURES

U:\1956\195602676\03_data\gis_cad\gis\MXDs\USGSSiteLocation\USGSSiteLocation.aprx Revised: 2023-05-31 By: memason



INDEX MAP



Legend

- Approximate Project Limits
- Municipal Boundary
- State Boundary
- Abutting Parcel Boundary

N

1 inch = 1,500 Feet

0 750 1,500 Feet

EVERSOURCE ENERGY

Dover to Eliot (R169)
Structure Replacement Project

Date: May 31, 2023

Figure 1
USGS Location Map

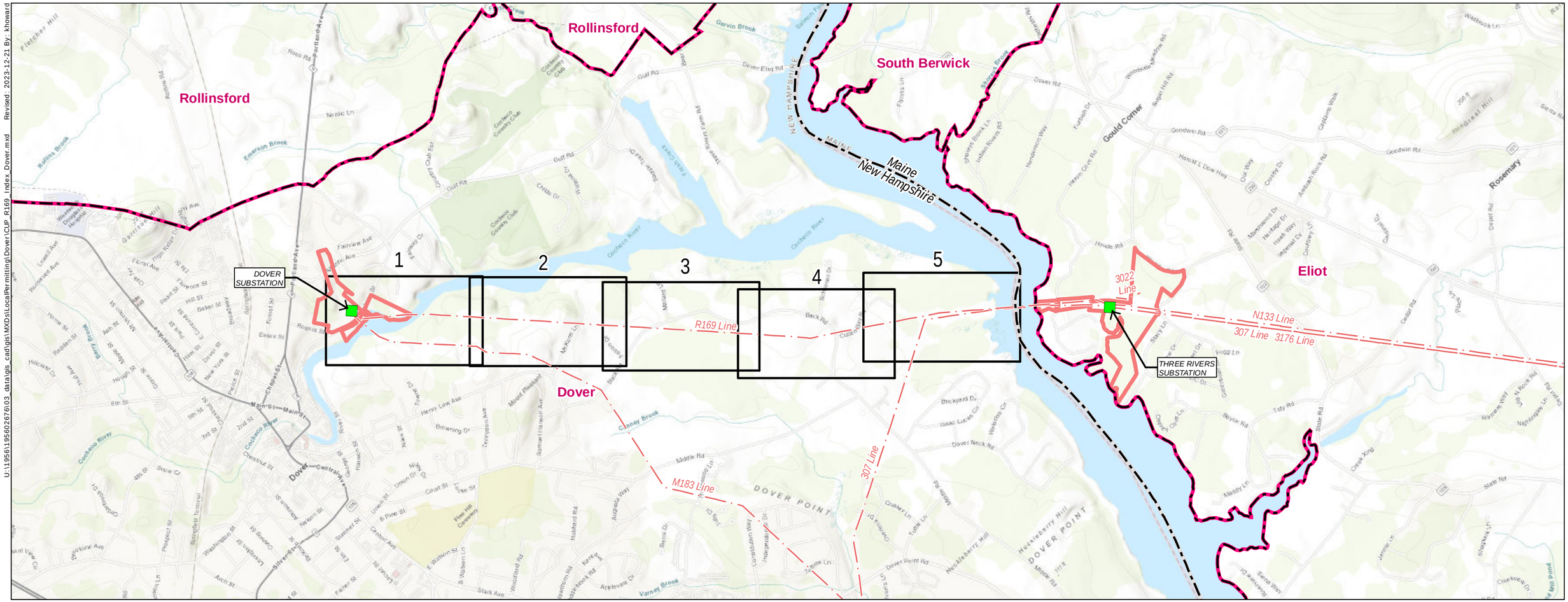
R169 Line - Structure Replacement Project

Dover, NH

Environmental Resources Map

Dover CUP Permit Map Set

Date: December 21, 2023



Legend

Substation | Municipal Boundary | State Boundary | Map Sheet | Eversource Owned Property

PREPARED FOR:

EVERSOURCE ENERGY

107 Selden Street
Berlin, CT 06037

N

0 2,000 4,000 Feet

INDEX OF FIGURES

Title Sheet / Index Map
Map Sheets 1-5

PREPARED BY:

Stantec

30 Park Drive
Topsham, ME 04086

Temporary Wetland Impact (SF)	Temporary Wetland Protection District Impact (SF)	Temporary Conservation District Impact (SF)	Permanent Wetland Protection District Impact (SF)	Permanent Conservation District Impact (SF)
29,676	942	-	-	-

CULLEN BAY ROAD

CULLEN BAY ROAD

831-001
Tax Map ID: M0092-A00000
Patricia Langs
Back Road

831-002
Tax Map ID: M0092-H00000
Marie V Hebert Trustee
Cullen Bay Road

831-003
Tax Map ID: M0092-B00000
Cullen Bay Homeowners Association
Cullen Bay Road

829-139
Tax Map ID: M0104-000000
Alan G. Dexter Trustee
Back River Road

829-138
Tax Map ID: M0091-A00000
Townsquare Media Portsmouth LLC
292 Middle Road

TEMPORARY WETLAND IMPACT: +/-2,375 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-10,000 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-10,000 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-6,494 SQ.FT.

SPAN STREAM AND WETLAND NO IMPACT

Dover

Piscataqua River

Maine
New Hampshire

R169 Line

307 Line

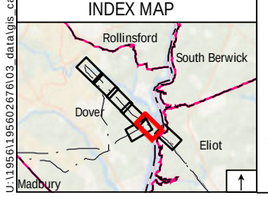
W18-PSS

S05

S06

S07

INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending
- Proposed Access
- Sediment Control Barrier (Typ.)
- Stone Work Pad
- Temporary Wetland Construction Matting
- Temporary Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 880 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- FEMA 100-Year Flood Zone
- FEMA Floodway
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Culvert
- NHDES 250' Protected Shoreland
- Conservation District
- Wetland Protection District

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines provided by Eversource Energy. Wetlands, watercourses, and potential vernal pools delineated and verified by Stantec June 2023. Additional sources include: FEMA, NH Granit, Maine Geolibrary Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery.

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

R169 Line Structure Replacement
Dover CUP Permit Map Set

Dover, NH | MAP SHEET 5 of 5

Date: December 21, 2023

Stantec

U:\13956\13956026716\03_data\gis_cad\gis\MXDs\LocalPermitting\Dover\CUP_R169_MapSet_Dover1.mxd Revised: 2023-12-21 By: khoward

APPENDICES

Appendix A WETLAND DELINEATION REPORT

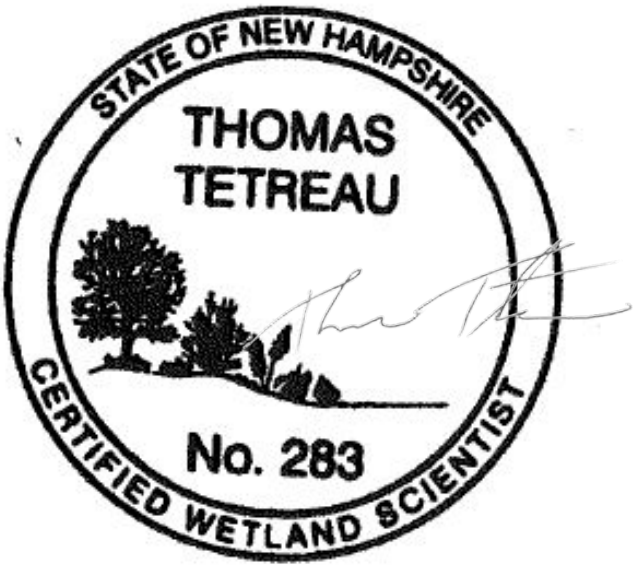
Wetland and Watercourse Delineation and Functional Assessment Report: R169 Structure Replacement Project

Dover, New Hampshire, and Eliot, Maine

September 14, 2023

Prepared for:

Eversource Energy
13 Legends Drive
Hooksett, NH 03106



Prepared by:

Stantec Consulting Services Inc.
30 Park Drive
Topsham, ME 04086

Table of Contents

1.0 INTRODUCTION 1

2.0 METHODS 1
2.1 WETLAND AND WATERCOURSE DELINEATION 1
2.2 FUNCTIONAL ASSESSMENT 2

3.0 RESULTS 3
3.1 GENERAL SITE DESCRIPTION 3
3.2 WETLAND AND WATERCOURSE DELINEATION 3
3.3 FUNCTIONAL ASSESSMENT 7

LIST OF TABLES

Table 1. Summary of Delineated Wetlands 4
Table 2. Summary of Delineated Streams 6
Table 3. Summary of Identified Vernal Pools 7
Table 4. Summary of Functional Assessment 8

LIST OF FIGURES

Permit Map Set

LIST OF APPENDICES

Appendix A Representative Photographs
Appendix B Corps Wetland Determination Data Forms (provided upon request)
Appendix C Wetlands Functional Assessment Worksheets (provided upon request)
Appendix D Observed Wildlife

1.0 INTRODUCTION

Eversource Energy (Eversource) proposes to replace approximately 20 existing transmission line structures located within the full length of the R169 Line, totaling approximately 3 miles of combined transmission line right-of-way (ROW) in Dover, New Hampshire and Eliot, Maine (Project Site; see attached Draft Map Set). Of the 20 structures proposed to be replaced, 19 are located in Dover and 1 is located in Eliot. Stantec Consulting Services Inc. (Stantec) was contracted to conduct wetland and watercourse delineations and a wetland functional assessment of the Project Site to support federal, state, and local natural resource permitting.

Stantec conducted on-site delineations within the existing ROW between June 8 and June 9, 2023. The delineations were conducted by Tom Tetreau, New Hampshire Certified Wetland Scientist #283. This report includes descriptions of the wetland and watercourse delineation methods and results.

2.0 METHODS

2.1 WETLAND AND WATERCOURSE DELINEATION

The R169 Line was previously delineated over 5 years ago, and the spatial data of these previously delineated wetlands and watercourses were used to aid in the 2023 wetland and watercourse delineation.

Wetland boundaries under local, state, and federal jurisdiction were determined using the technical criteria described in the U.S. Army Corps of Engineers (Corps) *Corps of Engineers Wetlands Delineation Manual*[1] and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Regional Supplement.*[2] Wetland communities were classified according to the *Classification of Wetlands and Deepwater Habitats of the United States.*[3] Hydric soil determinations were made in accordance with the Corps wetland delineation manuals and the *Field Indicators for Identifying Hydric Soils in New England (Version 4).*[4]

Wetland boundaries anticipated to meet state, federal, and local jurisdictional criteria were located using a Global Positioning System (GPS) receiver capable of submeter accuracy. The previously delineated

[1] Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1. U.S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, MS.
[2] U.S. Army Corps of Engineers. 2011. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Version 2.0), ed. J. S. Wakeley, R. W. Lichvar, and C. V. Noble. ERDC/EL TR-12-1. Vicksburg, MS: U.S. Army Engineer Research and Development Center.
[3] Federal Geographic Data Committee. 2013. Classification of wetlands and deepwater habitats of the United States. FGDC-STD-004-2013. Second Edition. Wetlands Subcommittee, Federal Geographic Data Committee and U.S. Fish and Wildlife Service, Washington, DC.
[4] New England Hydric Soils Technical Committee. 2017. Field Indicators for Identifying Hydric Soils in New England (Version 4).

wetland boundaries were confirmed using the GPS, with revisions to the boundaries located with the GPS as necessary.

Watercourses (e.g., streams) identified during the delineations were identified based on the definitions in NHDES Certified Administrative Rules Env-Wt 406.04, as well as the technical guidance available from the Corps on the identification of an Ordinary High Water Mark.[5] The top of each bank was mapped for streams typically over 6 feet wide, and the centerline was mapped for streams with top of bank widths up to 6 feet wide. Data was collected on flow regime, top of bank, band depth, Ordinary High Water Mark widths, dominant substrates, and evidence of biological use. GPS data were used to produce the attached map set.

The wetland delineation occurred outside the appropriate identification period for vernal pool indicator species; therefore, potential vernal pools were identified and evaluated in accordance with the *Identification and Documentation of Vernal Pools in New Hampshire.*[6] Potential vernal pools were primarily identified based on their physical characteristics and landscape position, and the presence of vernal pool indicator species, if observed. Observations of approximate size, hydrology, and evidence of disturbance were recorded. The boundaries of the potential vernal pools were located with GPS receivers, and photographs were taken of each vernal pool identified.

Priority Resource Areas (PRA), as defined in Env-Wt 103.66, were identified based on field observations and use of the Wetlands Permit Planning Tool.[7] PRAs identified along the R169 Line consisted of wetlands contiguous with tier 3 streams, tidal wetlands, and undeveloped tidal buffer zones.

2.2 FUNCTIONAL ASSESSMENT

Stantec performed a wetland functional assessment of the delineated wetlands and watercourses in accordance with New Hampshire Wetland Rules (Env-Wt 311.10). Wetland functions and values were qualitatively evaluated through direct field observation and a review of existing public data resources following the New Hampshire Method for evaluating the Ecological Integrity of the Wetlands and Streams (RSA 482-A:2, XI) and Corps *Highway Methodology Workbook Supplement.*[8] Information was collected to prepare Corps Wetland Determination Data Forms and Wetlands Functional Assessment Worksheets. Full assessments of Ecological Integrity using the New Hampshire Method is based on a series of desktop and field assessments and results in a numerical Functional Value Index for each wetland. Due to the length of the Project area, the abundance of wetlands, and the anticipated wetland impacts associated with the Project (temporary timber matting), Stantec evaluated the Ecological Integrity of each wetland using a qualitative value of low, medium, and high that considered the condition of the wetland

[5] U.S. Army Corps of Engineers. 2005. Regulatory Guidance Letter: Ordinary High Water Mark Identification. December 8, 2005. No. 05-05.

[6] Marchand, M. 2016. *Identifying and Documenting Vernal Pools in New Hampshire*. Third Edition, New Hampshire Fish and Game Department, Nongame and Endangered Wildlife Program.

[7] https://nhdeswppt.unh.edu/, accessed June 2023.

[8] U.S. Army Corps of Engineers. 1999. The Highway Methodology Workbook Supplement, Wetland Functions and Values: A Descriptive Approach. U.S. Army Corps of Engineers. New England Division. 32pp. NAEEP-360-1-30a.

relative to human-caused stressors, diversity of native vegetation, and presence of natural processes. This modified method allowed for a more consistent and streamlined approach when completing the required Wetlands Functional Assessment Worksheets. The temporary impact area (matting) listed on the Wetlands Functional Assessment Worksheets is approximate based on preliminary mapping and Project design and represents the greatest amount of impact likely to occur. Temporary wetland impacts will be minimized throughout the permitting and design process, and some of these wetland impact areas may decrease.

3.0 RESULTS

3.1 GENERAL SITE DESCRIPTION

The R169 Line is an existing transmission line that traverses forested, residential, and agricultural landscapes between the Dover Substation in Dover and the Three Rivers Substation in Eliot. The open transmission line is approximately 100 feet wide in most areas, with wider stretches, up to 250-feet wide, containing additional transmission lines in the areas around the Piscataqua River crossing. The ROW primarily crosses rural areas and town roads, as well as the Cocheco River and the Piscataqua River. The topography varies from flat lowlands and fields to undulating hills and steep side slopes. Elevations generally range between 0 and 90 feet above mean sea level.

The open upland natural communities consist of early successional shrub, sapling, and herbaceous species. Characteristic woody vegetation includes gray birch (*Betula populifolia*), quaking aspen (*Populus tremuloides*), red maple (*Acer rubrum*), sheep-laurel (*Kalmia angustifolia*), late lowbush blueberry (*Vaccinium angustifolium*), white meadowsweet (*Spiraea alba*), Allegheny blackberry (*Rubus allegheniensis*), American hazelnut (*Corylus americana*), red oak (*Quercus rubra*), and red raspberry (*Rubus idaeus*). Commonly observed herbaceous vegetation included little Canada mayflower (*Maianthemum canadense*), wrinkle-leaf goldenrod (*Solidago rugosa*), Canada goldenrod (*Solidago canadensis*), bracken fern (*Pteridium aquilinum*), hay-scented fern (*Dennstaedtia punctilobula*), wild strawberry (*fragaria virginiana*), bristly dewberry (*Rubus hispidus*), Kentucky blue grass (*Poa pratensis*), and other common grass and wildflower species. Non-native invasive species abundance was moderate compared to native vegetation and included rambler rose (*Rosa multiflora*), Japanese barberry (*Berberis thunbergii*), Morrow's honeysuckle (*Lonicera morrowii*), and glossy false buckthorn (*Frangula alnus*). Soils within the ROW consisted primarily of loam and silty loam.

3.2 WETLAND AND WATERCOURSE DELINEATION

The wetland and watercourse delineations were conducted on June 8 and June 9, 2023, under appropriate conditions during the growing season. A total of 23 wetlands, 9 unnamed watercourses, and the Cocheco River and Piscataqua River were delineated. In addition, one potential vernal pool was surveyed. The locations of the delineated wetlands, watercourses, and potential vernal pool are included on the attached Draft Map Set. Tables 1, 2, and 3 summarize the delineated wetlands, watercourses, and potential vernal pool, respectively. Representative site photographs are provided in Appendix A. Representative Corps Wetland Determination Forms are included in Appendix B.

Table 1. Summary of Delineated Wetlands

Wetland Resource Identifier	Wetland Classification[1]	Dominant and Characteristic Vegetation	Hydric Soil Indicators	Wetland Hydrology Indicators	Priority Resource Area (PRA)	Additional Comments
W001	PEM	Trees: None Saplings/Shrubs: None Herbs: broad-leaf cat-tail (*Typha latifolia*), lamp rush (*Juncus effusus*), cottongrass bulrush (*Scirpus cyperinus*), sensitive fern *(Onoclea sensibilis*), uptight sedge (*Carex stricta*)	F3: Depleted Matrix	A3: Saturation B9: Water-stained leaves	No	Ditch excavation around existing substation
W002	E2EM	Trees: none Saplings/Shrubs: none Herbs: saltwater cord grass (*Spartina alterniflora*), eastern grasswort (*Lilaeopsis chinesis*)	F3: Depleted Matrix	A1: Surface Water A2: High Water Table A3: Saturation	Yes - Tidal	Tidal wetland associated with Cocheco River. Rare plant species observed.
W003	PFO	Trees: Norway maple (*Acer plantanoides*) Saplings/Shrubs: speckled alder (*Alnus incana*) Herbs: sensitive fern, lamp rush	F3: Depleted Matrix	A3: Saturation B9: Water-stained leaves	Yes – within 100-feet of tidal areas	Stream S01 flows through wetland and into the Cocecho River.
W004	PSS	Trees: None Saplings/Shrubs: speckled alder Herbs: broad-leaf cat-tail, sensitive fern	F3: Depleted Matrix	A2: High Water Table A3: Saturation	Yes – within 100-feet of tidal areas	
W005	PSS/PEM	Trees: None Saplings/Shrubs: speckled alder Herbs: sensitive fern, broad-leaf cat-tail, lamp rush	F3: Depleted Matrix	A2: High Water Table A3: Saturation	No	
W006	PEM	Trees: none Saplings/Shrubs: red maple, speckled alder Herbs: sensitive fern, broad-leaf cat-tail, lamp rush, reed canary grass (*Phalaris arundinacea*), spotted touch-me-not (*Impatiens capensis*)	F3: Depleted Matrix	A3: Saturation	No	Contains potential vernal pool PVP01.
W007	PSS	Trees: none Saplings/Shrubs: speckled alder Herbs: sensitive fern, lamp rush, spotted touch-me-not, bluejoint (*Calamagrostis canadensis*), woodland horsetail (*Equisetum sylvaticum*)	F3: Depleted Matrix	A3: Saturation	No	Contains stream S02.
W008	PEM	Trees: none Saplings/Shrubs: speckled alder Herbs: broad-leaf cat-tail, sensitive fern, uptight sedge	F3: Depleted Matrix	A3: Saturation	No	Contains stream S03.
W009	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, lamp rush, spotted touch-me-not, purple loosestrife (*Lythrum salicaria*)	F3: Depleted Matrix	A3: Saturation	No	

Wetland Resource Identifier	Wetland Classification[1]	Dominant and Characteristic Vegetation	Hydric Soil Indicators	Wetland Hydrology Indicators	Priority Resource Area (PRA)	Additional Comments
W010	PEM/PSS	Trees: none Saplings/Shrubs: speckled alder Herbs: sensitive fern, lamp rush, woodland horsetail, bluejoint, reed canary grass	F3: Depleted Matrix	A3: Saturation	No	
W011	PSS	Trees: none Saplings/Shrubs: speckled alder, common winterberry (*Ilex verticilata*) Herbs: nodding sedge (*Carex gynandra*), sensitive fern, spotted touch-me-not, reed canary grass	F3: Depleted Matrix	A2: High Water Table A3: Saturation	No	Contains stream S04.
W012	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, bluejoint, lamp rush, broad-leaf cat-tail	F3: Depleted Matrix	A3: Saturation	No	
W013	PEM	Trees: none Saplings/Shrubs: alder Herbs: sensitive fern, broad-leaf cat-tail, lamp rush, skunk-cabbage (*Symplocarpus foetidus*)	F3: Depleted Matrix	A2: High Water Table A3: Saturation	No	
W014	PEM/PSS	Trees: none Saplings/Shrubs: red maple, speckled alder, common winterberry Herbs: sensitive fern, lamp rush, broad-leaf cat-tail, reed canary grass, wrinkle-leaf goldenrod	F3: Depleted Matrix	A3: Saturation B9: Water-stained leaves	No	
W015	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, bluejoint, steeplebush, wrinkle-leaf goldenrod, lamp rush	F3: Depleted Matrix	A3: Saturation	No	Portion of wetland within maintained lawn/yard area.
W016	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, lamp rush, uptight sedge, fowl manna grass (*Glyceria striata*), greater bladder sedge (*Carex intumescens*)	F3: Depleted Matrix	A3: Saturation	No	
W017	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, bluejoint, reed canary grass	F3: Depleted Matrix	A3: Saturation B9: Water-stained leaves	No	
W018	PSS/PEM	Trees: none Saplings/Shrubs: broad-leaf meadowsweet (*Spiraea latifolia*), coastal sweet pepperbush (*Clethra alnifolia*), speckled alder, common winterberry Herbs: sensitive fern, lamp rush, bluejoint, blue iris (*Iris versicolor)*	F3: Depleted Matrix	A3: Saturation	No	Portion of wetland is mowed hay field. Contains stream S05.

Wetland Resource Identifier	Wetland Classification[1]	Dominant and Characteristic Vegetation	Hydric Soil Indicators	Wetland Hydrology Indicators	Priority Resource Area (PRA)	Additional Comments
W019	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, lamp rush, broad-leaf cat-tail, necklace sedge (*Carex projecta*)	F3: Depleted Matrix	A3: Saturation	No	
W020	PEM/PSS	Trees: none Saplings/Shrubs: pussy willow (*Salix discolor*) Herbs: sensitive fern, bluejoint, reed canary grass, lamp rush, broad-leaf cat-tail	F3: Depleted Matrix	A3: Saturation	No	
W021	PEM	Trees: none Saplings/Shrubs: speckled alder Herbs: lamp rush, sensitive fern, cottongrass bulrush	F3: Depleted Matrix	A3: Saturation B10: Wetland drainage patterns	No (Maine)	Adjacent to Piscataqua River. Portions within mowed lawn/yard area.
W022	PEM	Trees: none Saplings/Shrubs: none Herbs: sensitive fern, lamp rush, woodland horsetail, cottongrass bulrush	F3: Depleted Matrix	A3: Saturation	No (Maine	
W023	PSS/PEM	Trees: none Saplings/Shrubs: broad-leaf meadowsweet, speckled alder, common winterberry Herbs: sensitive fern, lamp rush, broad-leaf cat-tail	F3: Depleted Matrix	A3: Saturation B9: Water-stained leaves	No (Maine)	

[1] PEM = Palustrine Emergent, PSS = Palustrine Scrub-shrub, PUB = Palustrine Unconsolidated Bottom, PFO = Palustrine Forested, E2EM = Estuarine Intertidal Emergent

Table 2. Summary of Delineated Streams

Stream Identifier	Flow Type	Bankfull Width (ft)	Ordinary High Water Mark Width (ft)	Dominant Substrates	Additional notes
S01	Perennial	4-6	4-6	Sand, gravel, silt	Flows south through W03, into the Cocheco River
Cocheco River	Perennial/Tidal	200+	200+	Silt, gravel, mud	
S02	Intermittent	2-3	2-3	Silt, gravel	Flows across ROW toward Cocheco River
S03	Perennial	8	8	Cobbles, gravel, boulders	Flows across ROW toward Cocheco River
S04	Perennial	4	4	Silt, gravel	Flows through wetland W11 in residence area
S05	Intermittent	4	4	Silt, gravel	Flows from wetland W18 towards Piscataqua River
Piscataqua River	Perennial/Tidal	850+	850+	Silt, gravel, mud	
S06	Intermittent	3	3	Sand, silt, gravel	Flows across ROW toward Piscataqua River; flows under existing road through culvert
S07	Intermittent	4	4	Gravel, cobbles	Flows across ROW toward Piscataqua River; flows under existing road through culvert
S08	Intermittent	4	4	Silt, gravel, cobbles	Flows across ROW toward Piscataqua River; flows under existing road through culvert
S09	Ephemeral	4	5	Sand, gravel	Originates from culvert under existing road, likely only flows during heavy rain

Table 3. Summary of Identified Vernal Pools

VP Identifier	Estimated Hydroperiod	Indicator Species	Comments
PVP01	Semi-permanent	Unknown adult frogs observed	Potential old excavation adjacent to pipeline crossing of the transmission line ROW. Approximately 50-foot diameter and 1 to 2 feet deep with mucky substrate.

3.3 FUNCTIONAL ASSESSMENT

Table 4 summarizes the results of the wetland functional assessment. In general, wetlands within the Project area provide a variety of functions and values. Nutrient Trapping / Retention & Transformation, Sediment Trapping, and Wetland-dependent Wildlife Habitat were the most common functions along with Groundwater Recharge and Flood Storage.

Wetlands Functional Assessment Worksheets for wetlands proposed to be impacted by temporary timber matting are included in Appendix C. Potential vernal pools and streams were considered when performing the functional assessment of impacted wetlands, but since no impacts are proposed to potential vernal pools and streams, a full assessment of these features was not included in the Wetlands Functional Assessment Worksheets. The list of observed wildlife is included in Appendix D, and Table 1 above includes the observed vegetation.

Table 4. Summary of Functional Assessment

Wetland Resource Identifier	Wetland Functions and Values[1]													
	1 Ecological Integrity[2]	2 Educational Potential	3 Fish and Aquatic Life Habitat	4 Flood Storage	5 Groundwater Recharge	6 Noteworthiness	7 Nutrient Trapping / Retention & Transformation	8 Production Export	9 Scenic Quality	10 Sediment Trapping	11 Shoreline Anchoring	12 Uniqueness/ Heritage	13 Wetland-based Recreation	14 Wetland-dependent Wildlife Habitat
W001	Low			X			P	X		X				
W002	High		P	P		P	P	X		X	P	X		X
W003	Moderate			P			X	X		X	X			X
W004	Moderate			P			X	X		X	P			X
W005	Moderate			P	X		X	X		X				X
W006	Moderate				P		X	X		X				P
W007	Moderate			X	P		X	X		X	P			X
W008	Moderate			X	P		X	X		X	P			X
W009	Low				P		X	X		X				X
W010	Moderate			X	P		X	X		X				X
W011	Moderate		X	X	X		X	X		X	P			X
W012	Low				X		P	X		X				X
W013	Moderate			X	X		P	X		X				X
W014	Moderate			X	X		P	P		X				X
W015	Low				X		X	X		P				X
W016	Low				X		P	X		X				X
W017	Moderate						X	P		X				X
W018	Moderate			X	X		P	X		X				X
W019	Low						P	X		P				X
W020	Low						P	X		P				X
W021	N/A, Maine			P	X		X	X		P				X
W022	N/A, Maine				X		X	X		P				X
W023	N/A, Maine			X	P	X	X	X		P				X

X = Function observed within wetland, P = Principal Function

[1] Corps Highway Methodology Workbook Supplement

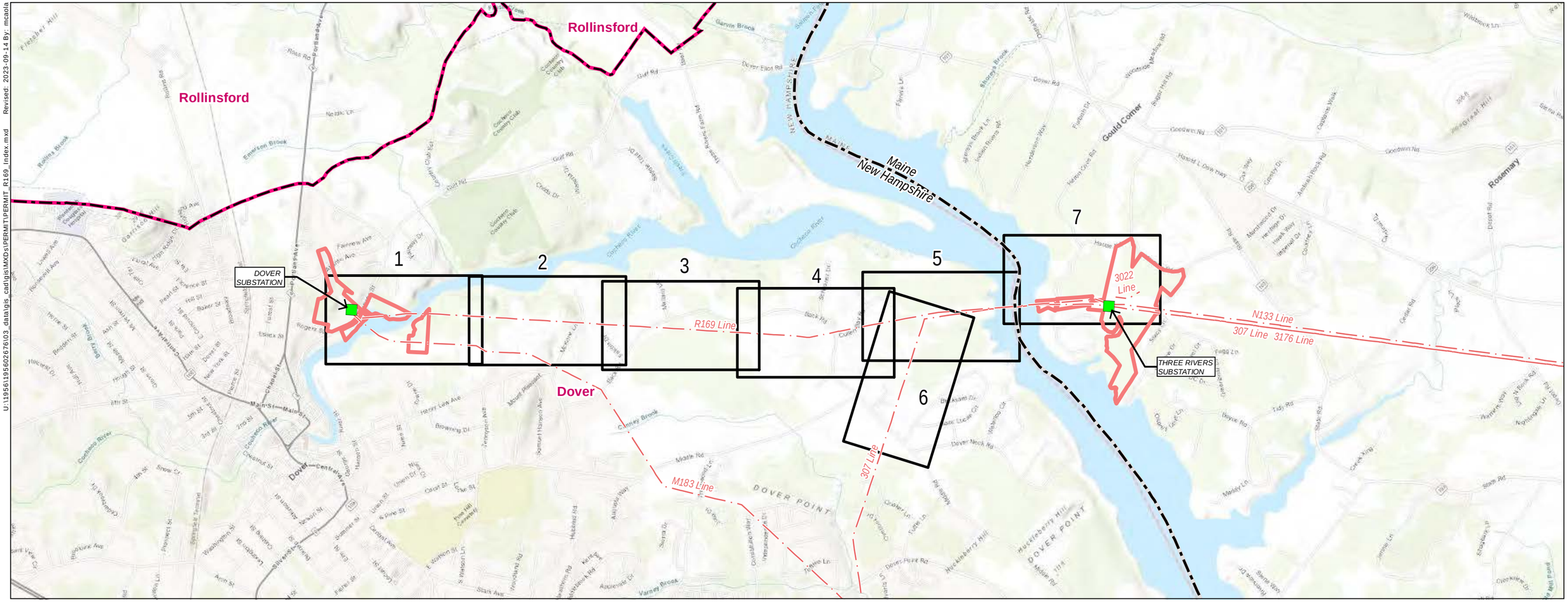
[2] Method for the Comparative Evaluation of Nontidal Wetlands in New Hampshire

FIGURES

R169 Line - Structure Replacement Project

Dover, NH and Eliot, ME
Environmental Resources Map
PERMIT Map Set
Date: September 14, 2023

U:\119561195602676\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_Index.mxd Revised: 2023-09-14 By: mcaola



Legend

Substation | Municipal Boundary | State Boundary | Map Sheet | Eversource Owned Property

N

0 2,000 4,000 Feet

PREPARED FOR:

EVERSOURCE ENERGY

107 Selden Street
Berlin, CT 06037

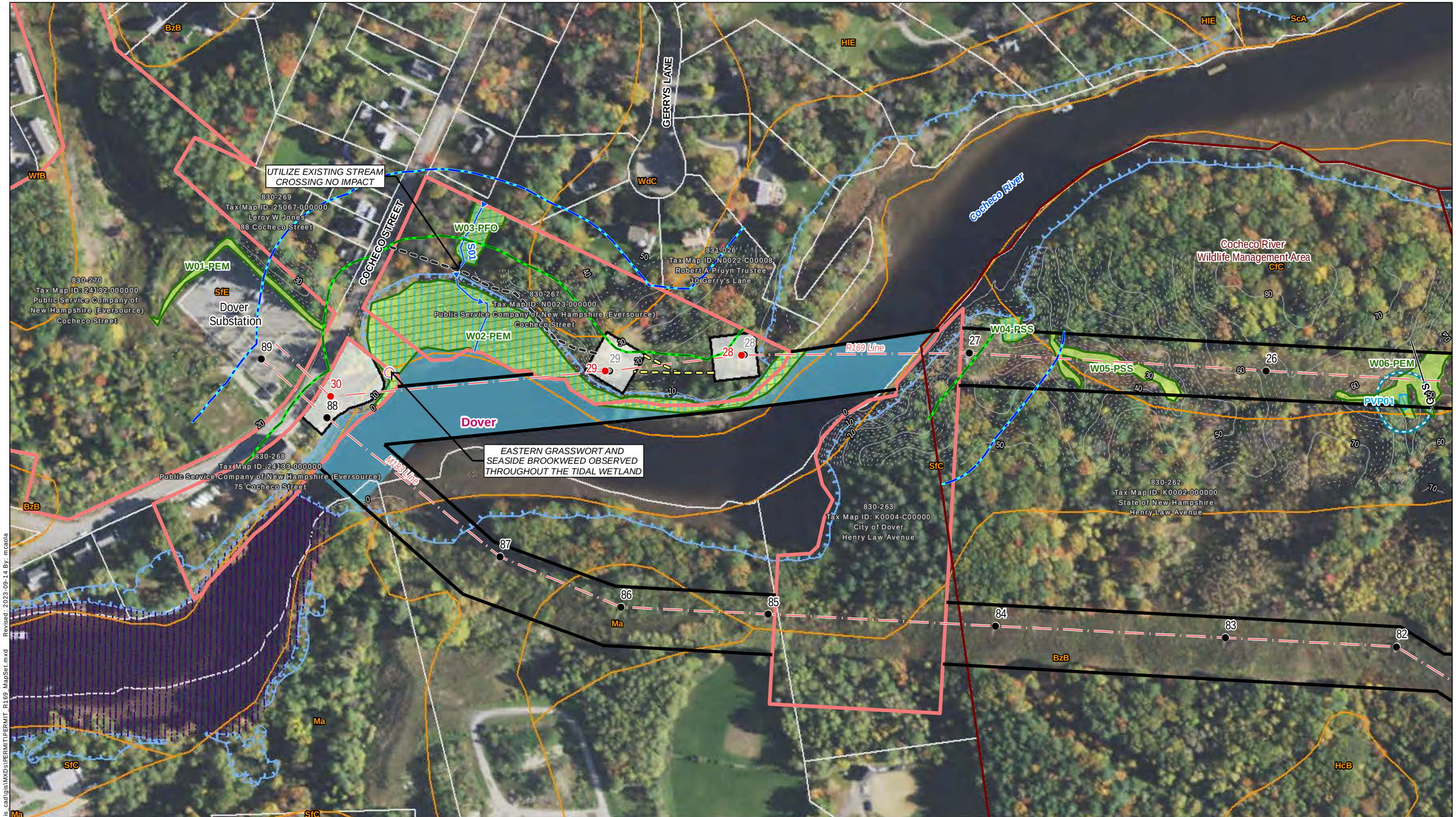
INDEX OF FIGURES

Title Sheet / Index Map
NRCS Soils Table
Map Sheets 1-7

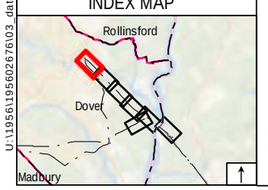
PREPARED BY:

Stantec

30 Park Drive
Topsham, ME 04086



INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 830 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine Geolibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

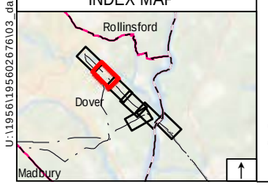
R169 Line Structure Replacement
PERMIT Map Set

Dover, NH	MAP SHEET 1 of 7
Date: September 14, 2023	Stantec

U:\19560\19560267\603_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

Dover
Cocheco River
Cocheco River Wildlife Management Area
831-022
Tax Map ID: N0018-001000
State of New Hampshire
McKone Lane
831-024
Tax Map ID: K0001-A00000
Robert Swanson
38 McKone Lane
831-025
Tax Map ID: K0001-A00001
State of New Hampshire
McKone Lane
831-023
Tax Map ID: K0001-B00000
State of New Hampshire
McKone Lane
830-262
Tax Map ID: K0002-000000
State of New Hampshire
Henry Law Avenue
831-020
Tax Map ID: N0018-006000
Daniel & Jacqueline Ayer Revocable Trusts
McKone Lane
831-019
Tax Map ID: N0018-014000
Brianna Dichter
10 Whiteley Drive
831-018
Tax Map ID: N0018-000OP1
One Home Builders II LLC
Eagan Drive
831-021
Tax Map ID: N0019-005000
Anthony P Ayer
47 McKone Lane
831-017
Tax Map ID: N0019-A00000
Elaine M Thurston
174 Back Road
WHITELEY DRIVE
EAGAN DRIVE
MCKONE LANE
FALCON DRIVE
BACKROAD
W06-PEM
PVP01
W07-PSS
W08-PEM
W09-PEM
W10-PEM
W11-PSS
SPAN STREAM NO IMPACT
CONFIGURE WORK PADS TO AVOID EXISTING STONEWALL
UTILIZE EXISTING BREACH IN STONEWALL
STONEWALL TO BE REMOVED AND REBUILT AFTER CONSTRUCTION
UTILIZE EXISTING PAVED DRIVEWAY
TEMPORARY WETLAND IMPACT: +/-742 SQ.FT.
R169 Line
M183 Line
ScA
HeD
HcC
SfC
WfB
HcB
DeA
HcD
CfC
CsD
CsB
WfC
HdD
BzB
HdC
HcB
ScB
HdB
WdB
82
81
80
79
78
8.5
25
24
23
22
21
20

INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 830 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine GeoLibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

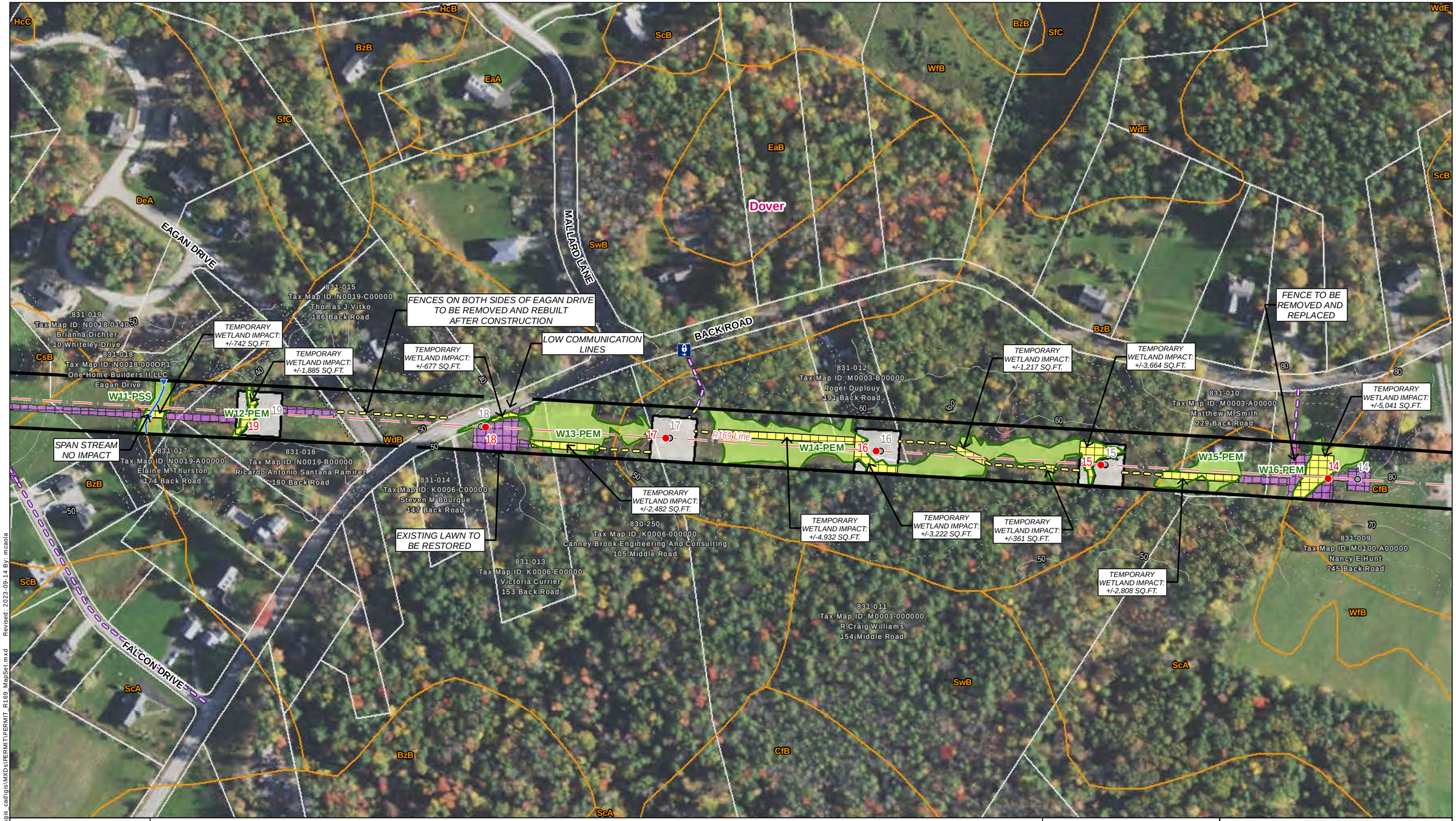
STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

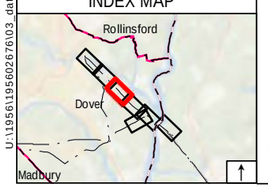
R169 Line Structure Replacement
PERMIT Map Set

Dover, NH	MAP SHEET 2 of 7
Date: September 14, 2023	Stantec

U:\119561195602676\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola



INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 830 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine Geolibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

R169 Line Structure Replacement
PERMIT Map Set

Dover, NH	MAP SHEET 3 of 7
Date: September 14, 2023	Stantec

U:\11956\11956026761\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

FENCE TO BE REMOVED AND REPLACED

TEMPORARY WETLAND IMPACT: +/-926 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-1,452 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-810 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-3,188 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-10,000 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-6,840 SQ.FT.

ACCESS FROM BACK ROAD

EXISTING LAWN TO BE RESTORED

SCHOONER DRIVE

CULLEN BAY ROAD

BACK ROAD

Dover

R169 Line

W16-PEM

W17-PEM

W18-PSS

831-008
Tax Map ID: M0100-B00000
Gregory W Hunt
295 Back Road

831-007
Tax Map ID: M0105-002000
Christopher D Berg
303 Back Road

831-004
Tax Map ID: M0093-B00000
Nancy Magiaras
362 Back Road

831-003
Tax Map ID: M0092-B00000
Cullen Bay Homeowners Association
Cullen Bay Road

831-005
Tax Map ID: M0105-000000
Eric W Thompson
321 Back Road

831-009
Tax Map ID: M0100-A00000
Nancy E Hunt
245 Back Road

831-006
Tax Map ID: M0105-001000
William C & Nancy Hunt Trustees
Back Road

831-001
Tax Map ID: M0092-A00000
Patricia Langs
Back Road

829-138
Tax Map ID: M0091-A00000
Townsquare Media Portsmouth LLC
292 Middle Road

WdE WdB BzB ScB CfB HcB WfB ScA SwB SfC HcC

INDEX MAP

Rollinsford
Dover
Madbury

Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 830 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine Geolibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

R169 Line Structure Replacement
PERMIT Map Set

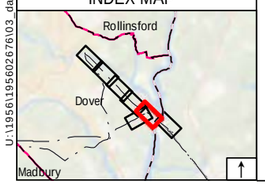
Dover, NH	MAP SHEET 4 of 7
Date: September 14, 2023	Stantec

U:\11956\19560267\6\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

SfC
HaA
WdB
SfC
WfB
SfC
DeB
CULLEN BAY ROAD
CULLEN BAY ROAD
Dover
Piscataqua River
Maine
New Hampshire
829-139
Tax Map ID: M0104-000000
Alan G. Dexter Trustee
Back River Road
831-001
Tax Map ID: M0092-A00000
Patricia Langs
Back Road
WdB
TEMPORARY WETLAND IMPACT: +/-2,022 SQ.FT.
831-002
Tax Map ID: M0092-H00000
Marie V Hebert Trustee
Cullen Bay Road
ScB
TEMPORARY WETLAND IMPACT: +/-10,000 SQ.FT.
831-003
Tax Map ID: M0092-B00000
Cullen Bay Homeowners Association
Cullen Bay Road
W18-PSS
S05
R169 Line
307 Line
SPAN STREAM AND WETLAND NO IMPACT
829-138
Tax Map ID: M0091-A00000
Townsquare Media Portsmouth LLC
292 Middle Road
TEMPORARY WETLAND IMPACT: +/-10,000 SQ.FT.
TEMPORARY WETLAND IMPACT: +/-6,840 SQ.FT.
WdA
WdE
S06
WdC
ScA
BzB
S07
WfC
Ta
EaB
WfB

U:\1956\195602676\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 330 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine Geolibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

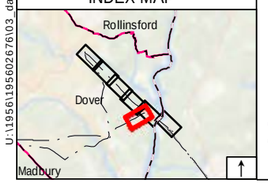
STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

R169 Line Structure Replacement
PERMIT Map Set

Dover, NH	MAP SHEET 5 of 7
Date: September 14, 2023	Stantec

INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 330 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet
0 50 100 200 Feet

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine GeoLibrary
Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

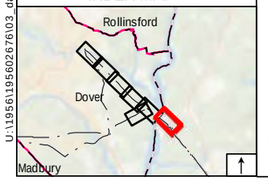
EVERSOURCE ENERGY

R169 Line Structure Replacement
PERMIT Map Set

Dover, NH	MAP SHEET 6 of 7
Date: September 14, 2023	Stantec

U:\11956\119560267\6\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

INDEX MAP



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Stone Work Pad
- Temporary Construction Matting
- Upland Construction Matting
- Eversource Owned Property
- State Owned Property
- Parcel Boundary
- 830 Abutter Number
- State Boundary
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary
- Primary Resource Area
- Open Water
- Potential Vernal Pool Extent
- 50' Potential Vernal Pool Buffer
- 250' Protected Shoreland
- 100' Tidal Buffer Zone
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NRCS Soil Unit Boundary
- Rare Species Observation
- -GAS- Approximate Gas Pipeline
- Fence
- Stonewall
- 2' Contour
- 10' Contour
- Gate
- Culvert

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet

0 50 100 200 Feet

Map Notes:

Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet

Data source: Eversource easement lines, structures, transmission lines, and wetlands/watercourses provided by Eversource Energy. Additional sources include: FEMA, NH Granit, Maine Geolibrary

Basemap: 2021 National Agriculture Imagery Program (NAIP) aerial imagery

STATE OF NEW HAMPSHIRE
THOMAS TETREAU
No. 283
CERTIFIED WETLAND SCIENTIST

EVERSOURCE ENERGY

R169 Line Structure Replacement
PERMIT Map Set

Dover, NH and Eliot, ME	MAP SHEET 7 of 7
Date: September 14, 2023	Stantec

U:\11956\19560276\03_data\gis_cad\gis\MXDs\PERMIT\PERMIT_R169_MapSet.mxd Revised: 2023-09-14 By: mcaola

APPENDICES

Appendix A REPRESENTATIVE PHOTOGRAPHS

Photo 1. Representative view of the Cocheco River from structure 30. Stantec, June 8, 2023.

Photo 2. Representative view of the Cocheco River from Structure 29. Stantec, June 8, 2023.

Photo 3. Stream S01 flowing into Cocheco River near structure 29. Stantec, June 8, 2023.

Photo 4. Representative view of Cocheco River from structure 28. Stantec, June 8, 2023.

Photo 5. Representative view of the ROW and Wetland W05. Stantec, June 8, 2023.

Photo 6. Potential vernal pool PVP01, near structure 25. Stantec, June 8, 2023.

Photo 7. Representative view of the ROW and wetland W10 near structure 23. Stantec, June 8, 2023.

Photo 8. Representative view of the ROW and wetland W13 near structure 18. Stantec, June 8, 2023.

Photo 9. Representative view of the ROW and wetland in active pasture area near structure 14. Stantec, June 8, 2023.

Photo 10. Representative view of the ROW and open field side of wetland W18, near structure 8. Stantec, June 8, 2023.

Photo 11. Stream S05 in wetland W18 near junction of R169 and 307 line ROWs. Stantec, June 8, 2023.

Photo 12. Representative view of the ROW at the Piscataqua River, structure 5. Stantec, June 8, 2023.

Photo 13. Wetland W19 and existing access along 307 line ROW. Stantec, June 8, 2023.

Photo 14. Representative view of the ROW and wetland W21, near structure 4. Stantec, June 8, 2023.

Photo 15. Representative view of the ROW and wetland W23, near structure 3. Stantec, June 8, 2023.

Photo 16. Structure 2, near the Three Rivers Substation. Stantec, June 8, 2023.

Appendix B CORPS WETLAND DETERMINATION DATA FORMS

(Provided upon request)

Appendix C WETLANDS FUNCTIONAL ASSESSMENT WORKSHEETS

(Provided upon request)

Appendix D OBSERVED WILDLIFE

Common Name	Species Name
American crow	*Corvus brachyrhynchos*
Osprey	*Pandion haliaetus*
Eastern chipmunk	*Tamias striatus*
Red-tailed hawk	*Buteo jamaicensis*
White-tailed deer	*Odocoileus virginianus*
Wild turkey	*Meleagris gallopavo*

CITY OF DOVER, NEW HAMPSHIRE
PLANNING APPLICATION OWNER AUTHORIZATION

OWNER AUTHORIZATION

I/We hereby submit this application to the City of Dover / City of Dover Planning Board and attest that to the best of my knowledge all of the information on this application form and in the accompanying application materials and documentation is true and accurate. As applicant or as agent, I attest that I am duly authorized to act in this capacity.

Property Owner Name: Kurt Nelson

Signature(s) of Property Owner(s): _____ Date: _____

Signature of Applicant: Ackerman, Andrew Digitally signed by Ackerman, Andrew Date: 2023.12.20 22:45:10 -09'00' Date: _____
if different from owner

AUTHORIZATION TO ENTER SUBJECT PROPERTY

I/We hereby submit this application to the City of Dover Planning Board and attest that to the best of my knowledge all of the information on this application form and in the accompanying application materials and documentation is true and accurate. As applicant or as agent, I attest that I am duly authorized to act in this capacity..

Property Owner Name: Kurt Nelson

Signature(s) of Property Owner(s): _____ Date: 2023-12-20

Signature of Applicant: _____ Date: 2023-12-20
if different from owner

IF SIGN PERMIT, SIGN PERMIT APPLICATION INFORMATION

If the sign permit applicant is not the property owner, this form must be completed and included as part of application submission.

I have read this application and state that, to the best of my knowledge, the information provided is true and that the proposed sign(s) will comply with all applicable regulations in Section 170-32 of the Zoning Ordinance of the City of Dover and shall conform to the submitted materials and designs. Furthermore, after 90 days, any application still waiting information will be denied.

Address of Sign Location: _____

Sign Permit Application Type:
(check one)

- ☐ Permanent Sign
- ☐ Temporary Sign
- ☐ Community Sign

CITY OF DOVER

CITY OF DOVER - ORDINANCE

Posted: March XX, 2024

Ordinance Title: Site Review Regulations Amendments
Chapter: 153

1. Chapter 153 of the Code of the City of Dover, entitled Site Plan Review, is hereby amended by revising Section 6, "Application requirements: Technical Review Committee."

   "153-6. Application requirements; Technical Review Committee.
   [Amended 8-26-2008; 3-23-2010; 1-24-2012]

   A. Prior to the formal submission of an application for site review by the Planning Board, the applicant shall meet with the Technical Review Committee. Said meeting(s) shall serve to assist the applicant in preparing a development proposal that is technically conforming to the regulations contained herein. The Technical Review Committee shall be comprised of the Planning Board Chair, the Conservation Commission Chair, City Engineer, Fire and Rescue Chief, Police Chief, Building Official, Zoning Administrator, Business ~~Economic~~ Development Director and Director of Planning and Community Development, who shall serve as Chair. All Committee members shall have a designated alternate available in their absence. For projects under the threshold described in Section 153-4.A but meeting the threshold of 153-4.B(1) through (5) may be approved by the majority vote of Technical Review Committee per RSA 676:43 provided no waivers or Conditional Use Permits are necessary to meet regulations."

CITY OF DOVER

CITY OF DOVER - ORDINANCE

Posted: March XX, 2024

Ordinance Title: Land Subdivision Regulations Amendments
Chapter: 157

1. Chapter 157 of the Code of the City of Dover, entitled Site Plan Review, is hereby amended by revising Section 60, "Definitions."

"TECHNICAL REVIEW COMMITTEE

Shall be comprised of the Planning Board Chair, City Engineer, Fire and Rescue Chief, Police Chief, Building Official, Zoning Administrator, ~~Economic~~ Business Development Director and Director of Planning and Community Development, who shall serve as Chair. All Committee members shall have a designated alternate available in their absence."
[Amended 7-27-2021]