



# DRAINAGE MONITORING REPORT

GEOTECHNICAL | ENVIRONMENTAL | ECOLOGICAL | WATER | CONSTRUCTION MANAGEMENT

Known for excellence. Built on trust.

Eversource Transmission Line:

## F107 - Seacoast Reliability Project

Location:

### Newington, New Hampshire

GZA Project No:

04.0190967.00

**TYPE OF INSPECTION:**  Daily  Weekly  Storm Event<sup>+</sup>  Reduced Frequency<sup>++</sup>  
 Other:

Date: **12/26/2020** Time: **1020** <sup>+</sup>Was this inspection triggered by a 0.25" storm event?  Yes  No

If yes, how did you determine whether a 0.25" storm event has occurred?  Rain Gauge  Weather Station  
 Other If other, please describe

+Storm event info (approx): Moderate to heavy rainfall throughout day on 12/25/2020

Amount of rainfall (inches): 0.81"

++Reason for Reduced Frequency  
(i.e., Monthly due to dry conditions):

Inspector name(s) and title(s): Rebecca Cox, Senior Project Manager

Others present/affiliation(s):

Weather conditions (since last inspection): 12/25/2020 rainstorm cleared overnight

Weather conditions (time of inspection): Clear, mid 30's

pH Meter Information (make/model): **Hanna HI98107**

Calibration Method: 2 Point

Date: **12/26/20** Time: **1040**

Notes:

## PROJECT TEAM

### PROJECT OWNER

Eversource

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### EVERSOURCE COMPLIANCE

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### FIELD SERVICES SAFETY MANAGER

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### ENVIRONMENTAL CONSULTANT

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**CURRENT/RECENT SITE WORK ACTIVITIES / NOTES**

- None

**PHOTOGRAPHS**



29 Gundalow - 1 (Drainage Area)



29 Gundalow - 2 (Culvert)



64 Gundalow - 1 (Drainage Course)



64 Gundalow - 2 (Drainage Course)





4 Brickyard Circle – 1 (Drainage Course)



4 Brickyard Circle – 2 (Drainage Course)



4 Brickyard Circle – 3 (Drainage Course)

**DRAINAGE AREA MONITORING**

**Location: 29 Gundalow – 1 (Drainage Area)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: **8.6**

Observations/Notes: Soil saturated. Very shallow pockets of water in depressions.

**Location: 29 Gundalow – 2 (Culvert)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: **11.3**

Observations/Notes: Water extending approx. 12" beyond culvert inlet into stone area, approx. max depth 3". Flow visible through culvert.

**Location: 64 Gundalow – 1 (Drainage Course)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: **11.1**

Observations/Notes: Flowing water observed beyond culvert outlet within rip-rap.

**Location: 64 Gundalow – 2 (Drainage Course)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: **9.2**

Observations/Notes: Flowing water observed in rip-rap swale into culvert with pools of water in front of culverts.

**Location: 4 Brickyard Circle – 1 (Drainage Course)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: **9.0**

Observations/Notes: Slow flowing water observed across drainage course in grass, up to 2" deep at culvert exit.

**Location: 4 Brickyard Circle – 2 (Drainage Course)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: **8.1**

Observations/Notes: Slow flowing water observed across drainage course in grass, approx. 1" to 3" deep.

**Location: 4 Brickyard Circle – 3 (Drainage Course)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: **7.8**

Observations/Notes: Paths of flowing water observed within drainage course, approx. 2" deep.

**Location: Knight's Brook – 1 (Upstream in Brook)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: **Not Monitored**

Observations/Notes:



<p><b>Location: Knight's Brook – 2 (Downstream in Brook)</b> Status of surface water at the time of inspection?   <input type="checkbox"/> Dry   <input type="checkbox"/> Standing   <input type="checkbox"/> Flowing pH: <b>Not Monitored</b> Observations/Notes:</p>
<p><b>Location: Knight's Brook – 3 (Above Duct Bank in Brook)</b> Status of surface water at the time of inspection?   <input type="checkbox"/> Dry   <input type="checkbox"/> Standing   <input type="checkbox"/> Flowing pH: <b>Not Monitored</b> Observations/Notes:</p>
<p><b>Location: Hannah – 1 (Wetland NW-22)</b> Status of surface water at the time of inspection?   <input type="checkbox"/> Dry   <input type="checkbox"/> Standing   <input type="checkbox"/> Flowing pH: <b>Not Monitored</b> Observations/Notes:</p>
<p><b>Location: Hannah – 2 (Wetland NW-24)</b> Status of surface water at the time of inspection?   <input type="checkbox"/> Dry   <input type="checkbox"/> Standing   <input type="checkbox"/> Flowing pH: <b>Not Monitored</b> Observations/Notes:</p>
<p><b>Location: Flynn Pit – 1 (Wetland NW-4)</b> Status of surface water at the time of inspection?   <input type="checkbox"/> Dry   <input type="checkbox"/> Standing   <input type="checkbox"/> Flowing pH: <b>Not Monitored</b> Observations/Notes:</p>
<p><b>Location:</b> Status of surface water at the time of inspection?   <input type="checkbox"/> Dry   <input type="checkbox"/> Standing   <input type="checkbox"/> Flowing pH: Observations/Notes:</p>

<p><b>OTHER COMMENTS AND OBSERVATIONS</b></p> <ul style="list-style-type: none"><li>• None.</li></ul>
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 Other:

Date: **12/30/2020** Time: **1020** <sup>+</sup>Was this inspection triggered by a 0.25" storm event?  Yes  No

If yes, how did you determine whether a 0.25" storm event has occurred?  Rain Gauge  Weather Station  
 Other If other, please describe

+Storm event info (approx):

Amount of rainfall (inches):

++Reason for Reduced Frequency  
(i.e., Monthly due to dry conditions):

Inspector name(s) and title(s): Matt Deane, Technical Specialist

Others present/affiliation(s):

Weather conditions (since last inspection): Variable sun and clouds, no measurable precipitation

Weather conditions (time of inspection): Mostly Cloudy, High 20's

pH Meter Information (make/model): **Hanna HI98107**

Calibration Method: 2 Point

Date: **12/30/20** Time: **1015**

Notes:

## PROJECT TEAM

### PROJECT OWNER

#### Eversource

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**CURRENT/RECENT SITE WORK ACTIVITIES / NOTES**

- None

**PHOTOGRAPHS**



29 Gundalow - 1 (Drainage Area)



29 Gundalow - 2 (Culvert)



64 Gundalow - 1 (Drainage Course)



64 Gundalow - 2 (Drainage Course)



4 Brickyard Circle - 1 (Drainage Course)



4 Brickyard Circle - 2 (Drainage Course)



**PHOTOGRAPHS**



4 Brickyard Circle – 3 (Drainage Course)

**DRAINAGE AREA MONITORING**

**Location: 29 Gundalow – 1 (Drainage Area)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: --

Observations/Notes:

**Location: 29 Gundalow – 2 (Culvert)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: 12.7

Observations/Notes: Water extending approx. 12" beyond culvert inlet into stone area, approx. max depth 4". Flow visible through culvert.

**Location: 64 Gundalow – 1 (Drainage Course)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: 12.1

Observations/Notes: Flowing water extending approx. 8" beyond culvert outlet, approx. 1" deep.

**Location: 64 Gundalow – 2 (Drainage Course)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: 10.0

Observations/Notes: Flowing water extending approx. 8" beyond culvert inlet, approx. 1" deep.

**Location: 4 Brickyard Circle – 1 (Drainage Course)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: 9.3

Observations/Notes: Standing water extending approx. 18" from outlet, max depth approx. 8".

**Location: 4 Brickyard Circle – 2 (Drainage Course)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: 7.8

Observations/Notes: Flowing water adjacent to east wall of raceway, approx. 1" deep.

**Location: 4 Brickyard Circle – 3 (Drainage Course)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: 7.5

Observations/Notes: Flowing water in center of raceway, approx. 2" deep.

**Location: Knight's Brook – 1 (Upstream in Brook)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: **Not Monitored**

Observations/Notes:

**Location: Knight's Brook – 2 (Downstream in Brook)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: **Not Monitored**

Observations/Notes:

**Location: Knight's Brook – 3 (Above Duct Bank in Brook)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: **Not Monitored**

Observations/Notes:

**Location: Hannah – 1 (Wetland NW-22)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: **Not Monitored**

Observations/Notes:

**Location: Hannah – 2 (Wetland NW-24)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: **Not Monitored**

Observations/Notes:

**Location: Flynn Pit – 1 (Wetland NW-4)**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH: **Not Monitored**

Observations/Notes:

**Location:**

Status of surface water at the time of inspection?  Dry  Standing  Flowing

pH:

Observations/Notes:

**OTHER COMMENTS AND OBSERVATIONS**

- None.