



# 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: **09/28/2020** Time: **1335** <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 Weather Underground

+Storm event info (approx): Light rain early morning 9/28

Amount of rainfall (inches): 0.02

++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, light rain early morning 9/28

Weather conditions (time of inspection): Partly Cloudy, High 70's

pH Meter Information (make/model): Hanna HI98107

Calibration Method: 2 Point

Date: **9/28/20** Time: **1255**

Notes:

## PROJECT TEAM

### PROJECT OWNER

#### Eversource

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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)

**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: Visible moisture on inside of culvert but no standing water

Observations/Notes:

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

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

pH: ---

Observations/Notes:

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

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

pH: ---

Observations/Notes:

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

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

pH: ---

Observations/Notes: Moisture at culvert outlet but no standing water

**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



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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: **09/30/2020** Time: **1150** <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 Weather Underground

+Storm event info (approx): Variable rain morning of 9/30

Amount of rainfall (inches): 0.46

++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 with rain morning of 9/30

Weather conditions (time of inspection): Mostly Cloudy, Low 70's

pH Meter Information (make/model): Hanna HI98107

Calibration Method: 2 Point

Date: **9/30/20** Time: **1145**

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)

**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: Visible moisture on inside of culvert but no standing water

Observations/Notes:

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

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

pH: ---

Observations/Notes:

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

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

pH: 6.5

Observations/Notes: Small area of standing water near culvert inlet, approx. 3.5" deep

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

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

pH: 6.6

Observations/Notes: Standing water extending approx. 12" beyond culvert outlet, approx. 8" 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





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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: 10/02/2020 Time: 1600 <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 Weather Underground

+Storm event info (approx): Afternoon showers on 10/2

Amount of rainfall (inches): 0.05

++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 with afternoon showers on 10/2

Weather conditions (time of inspection): Light rain, Mid 50's

pH Meter Information (make/model): Hanna HI98107

Calibration Method: 2 Point

Date: 10/2/20 Time: 1555

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)

**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: Visible moisture on inside of culvert but no standing water

Observations/Notes:

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

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

pH: ---

Observations/Notes:

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

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

pH: 6.7

Observations/Notes: Small area of standing water near culvert inlet, approx. 3.5" deep

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

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

pH: ---

Observations/Notes: Moisture at culvert outlet but no standing water

**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