



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⁺ Reduced Frequency⁺⁺
 Other:

Date: 11/23/2020 Time: 1445 ⁺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 in early morning hours turning to steady rain and thunderstorms late morning and early afternoon of 11/23

Amount of rainfall (inches): 1.59

++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 clouds, no measurable precipitation until 11/23

Weather conditions (time of inspection): Cloudy, mid 40's

pH Meter Information (make/model): Hanna HI98107

Calibration Method: 2 Point

Date: 11/23/20 Time: 1440

Notes:

PROJECT TEAM

PROJECT OWNER

Eversource

Attn: Dena Champy-Project Manager
Phone: 508-954-2736
Email: dena.champy@eversource.com

Attn: Kurt Nelson-Permitting Specialist
Phone: 603-714-3031
Email: kurt.nelson@eversource.com

Attn: Tom Meister
Phone: 339-987-7901
Email: thomas.meister@eversource.com

Attn: Sam Eames
Phone: 603-915-0073
Email: samual.eames@eversource.com

EVERSOURCE COMPLIANCE

Attn: Matt Cardin
Phone: 603-988-6635
Email: matthew.cardin@eversource.com

FIELD SERVICES SAFETY MANAGER

Transmission ROW

Attn: Joshua Scott
Phone: 603-848-7759
Email: joshua.scott@eversource.com

ENVIRONMENTAL CONSULTANT

GZA GeoEnvironmental, Inc.

Attn: Deborah Zarta Gier
Phone: 603-380-5024
Email: Deborah.zartagier@gza.com

Attn: Rebecca Cox
Phone: 603-315-7520
Email: rebecca.cox@gza.com

Attn: Lucas Turcotte
Phone: 603-380-5017
Email: lucas.turcotte@gza.com

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: **6.0**

Observations/Notes: Intermittent areas of standing water in grass, max depth approx. 0.5"

Location: 29 Gundalow – 2 (Culvert)

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

pH: **11.6**

Observations/Notes: Water extending approx. 12" beyond culvert inlet into stone area, approx. max depth 4". Flow visible through culvert. Precipitate observed on stone and leaf litter below water.

Location: 64 Gundalow – 1 (Drainage Course)

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

pH: **10.8**

Observations/Notes: Accessible flowing water extending approx. 8" from culvert outlet, approx. 1" deep.

Location: 64 Gundalow – 2 (Drainage Course)

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

pH: **9.5**

Observations/Notes: Large area of pooled water extending approx. 6" from culvert inlets, max depth approx. 8". Visible flow through 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: Water flowing through culvert with pools at outlet, max depth approx. 10". Visible flow through culvert and into raceway.

Location: 4 Brickyard Circle – 2 (Drainage Course)

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

pH: **7.6**

Observations/Notes: Water flowing through center and adjacent to east wall of raceway, approx. 4" deep.

Location: 4 Brickyard Circle – 3 (Drainage Course)

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

pH: **7.2**

Observations/Notes: Water flowing with pooled area in center of raceway, max depth approx. 6".

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.



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⁺ Reduced Frequency⁺⁺
 Other:

Date: 11/25/2020 Time: 0925 ⁺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 clouds, no measurable precipitation

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

pH Meter Information (make/model): Hanna HI98107

Calibration Method: 2 Point

Date: 11/25/20 Time: 0920

Notes:

PROJECT TEAM

PROJECT OWNER

Eversource

Attn: Dena Champy-Project Manager

Phone: 508-954-2736

Email: dena.champy@eversource.com

Attn: Kurt Nelson-Permitting Specialist

Phone: 603-714-3031

Email: kurt.nelson@eversource.com

Attn: Tom Meister

Phone: 339-987-7901

Email: thomas.meister@eversource.com

Attn: Sam Eames

Phone: 603-915-0073

Email: samual.eames@eversource.com

EVERSOURCE COMPLIANCE

Attn: Matt Cardin

Phone: 603-988-6635

Email: matthew.cardin@eversource.com

FIELD SERVICES SAFETY MANAGER

Transmission ROW

Attn: Joshua Scott

Phone: 603-848-7759

Email: joshua.scott@eversource.com

ENVIRONMENTAL CONSULTANT

GZA GeoEnvironmental, Inc.

Attn: Deborah Zarta Gier

Phone: 603-380-5024

Email: Deborah.zartagier@gza.com

Attn: Rebecca Cox

Phone: 603-315-7520

Email: rebecca.cox@gza.com

Attn: Lucas Turcotte

Phone: 603-380-5017

Email: lucas.turcotte@gza.com

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: 12.5

Observations/Notes: Water extending approx. 12" beyond culvert inlet into stone area, approx. max depth 4". Flow visible through culvert. Precipitate observed on stone and leaf litter below water.

Location: 64 Gundalow – 1 (Drainage Course)

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

pH: 12.1

Observations/Notes: Accessible flowing water in rip rap extending approx. 8" from culvert outlet, approx. 1" deep.

Location: 64 Gundalow – 2 (Drainage Course)

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

pH: 9.3

Observations/Notes: Small area of pooled water adjacent to culvert inlets, max depth approx. 4". Minor flow through culverts.

Location: 4 Brickyard Circle – 1 (Drainage Course)

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

pH: 7.4

Observations/Notes: Water extending approx. 14" beyond culvert outlet, max depth approx. 8". Minor flow through raceway.

Location: 4 Brickyard Circle – 2 (Drainage Course)

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

pH: 7.5

Observations/Notes: Minor flow through center and adjacent to east wall of raceway, approx. 3" deep.

Location: 4 Brickyard Circle – 3 (Drainage Course)

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

pH: 7.4

Observations/Notes: Minor flow with pooled area in center of raceway, max depth approx. 4".

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>Location: Knight's Brook – 2 (Downstream in Brook) Status of surface water at the time of inspection? <input type="checkbox"/> Dry <input type="checkbox"/> Standing <input type="checkbox"/> Flowing pH: Not Monitored Observations/Notes:</p>
<p>Location: Knight's Brook – 3 (Above Duct Bank in Brook) Status of surface water at the time of inspection? <input type="checkbox"/> Dry <input type="checkbox"/> Standing <input type="checkbox"/> Flowing pH: Not Monitored Observations/Notes:</p>
<p>Location: Hannah – 1 (Wetland NW-22) Status of surface water at the time of inspection? <input type="checkbox"/> Dry <input type="checkbox"/> Standing <input type="checkbox"/> Flowing pH: Not Monitored Observations/Notes:</p>
<p>Location: Hannah – 2 (Wetland NW-24) Status of surface water at the time of inspection? <input type="checkbox"/> Dry <input type="checkbox"/> Standing <input type="checkbox"/> Flowing pH: Not Monitored Observations/Notes:</p>
<p>Location: Flynn Pit – 1 (Wetland NW-4) Status of surface water at the time of inspection? <input type="checkbox"/> Dry <input type="checkbox"/> Standing <input type="checkbox"/> Flowing pH: Not Monitored Observations/Notes:</p>
<p>Location: 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>OTHER COMMENTS AND OBSERVATIONS</p> <ul style="list-style-type: none">• None.



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⁺ Reduced Frequency⁺⁺
 Other:

Date: **11/27/2020** Time: **0930** ⁺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 light rain beginning late evening of 11/25 and continuing through the evening of 11/26

Amount of rainfall (inches): 0.26

++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 clouds, no measurable precipitation until evening of 11/25

Weather conditions (time of inspection): Cloudy, mid 40's

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

Calibration Method: 2 Point

Date: **11/27/20** Time: **0925**

Notes:

PROJECT TEAM

PROJECT OWNER

Eversource

Attn: Dena Champy-Project Manager

Phone: 508-954-2736

Email: dena.champy@eversource.com

Attn: Kurt Nelson-Permitting Specialist

Phone: 603-714-3031

Email: kurt.nelson@eversource.com

Attn: Tom Meister

Phone: 339-987-7901

Email: thomas.meister@eversource.com

Attn: Sam Eames

Phone: 603-915-0073

Email: samual.eames@eversource.com

EVERSOURCE COMPLIANCE

Attn: Matt Cardin

Phone: 603-988-6635

Email: matthew.cardin@eversource.com

FIELD SERVICES SAFETY MANAGER

Transmission ROW

Attn: Joshua Scott

Phone: 603-848-7759

Email: joshua.scott@eversource.com

ENVIRONMENTAL CONSULTANT

GZA GeoEnvironmental, Inc.

Attn: Deborah Zarta Gier

Phone: 603-380-5024

Email: Deborah.zartagier@gza.com

Attn: Rebecca Cox

Phone: 603-315-7520

Email: rebecca.cox@gza.com

Attn: Lucas Turcotte

Phone: 603-380-5017

Email: lucas.turcotte@gza.com

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: Saturated soil but no standing water

Location: 29 Gundalow – 2 (Culvert)

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

pH: 12.2

Observations/Notes: Water extending approx. 12" beyond culvert inlet into stone area, approx. max depth 4". Flow visible through culvert. Precipitate observed on stone and leaf litter below water.

Location: 64 Gundalow – 1 (Drainage Course)

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

pH: 11.4

Observations/Notes: Accessible flowing water extending approx. 8" from culvert outlet, approx. 1" deep.

Location: 64 Gundalow – 2 (Drainage Course)

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

pH: 9.8

Observations/Notes: Area of pooled water adjacent to culvert inlets, max depth approx. 5". Visible flow through culverts.

Location: 4 Brickyard Circle – 1 (Drainage Course)

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

pH: 9.4

Observations/Notes: Standing water extending approx. 14" beyond culvert outlet, max depth approx. 8". Visible flow into raceway.

Location: 4 Brickyard Circle – 2 (Drainage Course)

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

pH: 7.8

Observations/Notes: Flow through center and adjacent to east wall of raceway, approx. 3" deep.

Location: 4 Brickyard Circle – 3 (Drainage Course)

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

pH: 7.4

Observations/Notes: Minor flow with pooled water in center of raceway, max depth approx. 4".

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>Location: Knight's Brook – 2 (Downstream in Brook) Status of surface water at the time of inspection? <input type="checkbox"/> Dry <input type="checkbox"/> Standing <input type="checkbox"/> Flowing pH: Not Monitored Observations/Notes:</p>
<p>Location: Knight's Brook – 3 (Above Duct Bank in Brook) Status of surface water at the time of inspection? <input type="checkbox"/> Dry <input type="checkbox"/> Standing <input type="checkbox"/> Flowing pH: Not Monitored Observations/Notes:</p>
<p>Location: Hannah – 1 (Wetland NW-22) Status of surface water at the time of inspection? <input type="checkbox"/> Dry <input type="checkbox"/> Standing <input type="checkbox"/> Flowing pH: Not Monitored Observations/Notes:</p>
<p>Location: Hannah – 2 (Wetland NW-24) Status of surface water at the time of inspection? <input type="checkbox"/> Dry <input type="checkbox"/> Standing <input type="checkbox"/> Flowing pH: Not Monitored Observations/Notes:</p>
<p>Location: Flynn Pit – 1 (Wetland NW-4) Status of surface water at the time of inspection? <input type="checkbox"/> Dry <input type="checkbox"/> Standing <input type="checkbox"/> Flowing pH: Not Monitored Observations/Notes:</p>
<p>Location: 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>OTHER COMMENTS AND OBSERVATIONS</p> <ul style="list-style-type: none">• None.
