



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: **7/6/2020** Time: **1105** ⁺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 evening of July 5

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): Mostly cloudy, 0.05" of precipitation evening of July 5

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

pH Meter Information (make/model): Hanna HI98107

Calibration Method: 2 Point
Date: **7/6/20** Time: **1100**

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

- 29 Gundalow resident periodically watering new grass/sod. Watering not occurring at time of inspection.

PHOTOGRAPHS



29 Gundalow -1 (Drainage Area)



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: **8.6**

Observations/Notes: Standing water ~4" deep, extending 12" beyond culvert inlet in stone drainage area.

Location: 29 Gundalow – 2 (Culvert)

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

pH: **8.6**

Observations/Notes: ~ 5" of standing water in culvert

Location: 64 Gundalow – 1 (Drainage Course)

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

pH: **7.7**

Observations/Notes: ~ 7" of standing water extending ~2.5' beyond culvert outlet in stone drainage area

Location: 64 Gundalow – 2 (Drainage Course)

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

pH: **6.6**

Observations/Notes: ~3" of standing water near culvert inlet

Location: 4 Brickyard Circle – 1 (Drainage Course)

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

pH: **6.9**

Observations/Notes: ~ 6" of standing water extending ~ 10" beyond culvert outlet in grassed raceway

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

- No observable flow through Gundalow Landing / Brickyard Circle drainage course



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F107 - Seacoast Reliability Project

Location:

Newington, New Hampshire

GZA Project No:

04.0190967.00

TYPE OF INSPECTION:

- Daily
 Weekly
 Storm Event⁺
 Reduced Frequency⁺⁺
 Other: Twice Weekly

Date: **7/9/2020** Time: **0920** ⁺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): Mostly cloudy, 0.01" of precipitation evening of July 8

Weather conditions (time of inspection): Sunny, Mid 70's

pH Meter Information (make/model): Hanna HI98107

Calibration Method: 2 Point

Date: **7/9/20** Time: **0915**

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

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

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Phone: 603-988-6635
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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 -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: **8.5**

Observations/Notes: Standing water ~4" deep, extending 12" beyond culvert inlet in stone drainage area.

Location: 29 Gundalow – 2 (Culvert)

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

pH: **8.5**

Observations/Notes: ~ 5" of standing water in culvert

Location: 64 Gundalow – 1 (Drainage Course)

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

pH: **7.6**

Observations/Notes: ~ 4" of standing water extending ~18" beyond culvert outlet in stone drainage area

Location: 64 Gundalow – 2 (Drainage Course)

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

pH: **6.4**

Observations/Notes: ~0.5" of standing water near culvert inlet, grass clippings in culvert

Location: 4 Brickyard Circle – 1 (Drainage Course)

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

pH: **6.9**

Observations/Notes: ~ 4" of standing water extending ~ 10" beyond culvert outlet in grassed raceway

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

- No observable flow in the Gundalow Landing / Brickyard Circle drainage course.