



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: **7/14/2020** 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 **Weather Underground**

+Storm event info (approx): Brief heavy thunderstorm afternoon on 7/13

Amount of rainfall (inches): 0.89

++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, some thunderstorms and light rain

Weather conditions (time of inspection): Mostly Cloudy, Mid 60's

pH Meter Information (make/model): Hanna HI98107

Calibration Method: 2 Point

Date: **7/14/20** Time: **0915**

Notes:

PROJECT TEAM

PROJECT OWNER

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CURRENT/RECENT SITE WORK ACTIVITIES / NOTES

- Active construction/drainage improvements in the drainage course at 64 Gundalow Landing. Unable to monitoring 64 Gundalow - 1 and 64 Gundalow - 2 locations on this date.

PHOTOGRAPHS



29 Gundalow -1 (Drainage Area)



29 Gundalow -1 (Drainage Area)



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: **Not Monitored – Could not access due to construction/drainage improvement work**

Observations/Notes:

Location: 29 Gundalow – 2 (Culvert)

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

pH: **10.1**

Observations/Notes: ~ 4" of standing water in culvert

Location: 64 Gundalow – 1 (Drainage Course)

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

pH: **Not Monitored – Could not access due to construction/drainage improvement work**

Observations/Notes:

Location: 64 Gundalow – 2 (Drainage Course)

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

pH: **Not Monitored – Could not access due to construction/drainage improvement work**

Observations/Notes:

Location: 4 Brickyard Circle – 1 (Drainage Course)

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

pH: **7.0**

Observations/Notes: ~ 8" of standing water extending ~ 18" beyond culvert outlet in grassed raceway. Drainage course improvements at 64 Gundalow were ongoing on 7/13/20 when rain event occurred. Turbid stormwater resulting from the 7/13/20 rain event and the construction at 64 Gundalow was observed standing at the 4 Brickyard – 1 monitoring location. The stormwater was removed by the construction crews for off-site disposal after the time of this monitoring.

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

- Active construction/drainage improvements at 64 Gundalow Landing at time of inspection



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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: Twice Weekly

Date: **7/17/2020** Time: **0940** ⁺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, some very light rain, no measurable precipitation

Weather conditions (time of inspection): Cloudy, Low 60's

pH Meter Information (make/model): Hanna HI98107

Calibration Method: 2 Point

Date: **7/17/20** Time: **0935**

Notes:

PROJECT TEAM

PROJECT OWNER

Eversource

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CURRENT/RECENT SITE WORK ACTIVITIES / NOTES

- Major construction/drainage improvements in the drainage course at 64 Gundalow Landing completed 7/16. Work on 7/17 included grading areas adjacent to stone ditch and laying sod/seeding.

PHOTOGRAPHS



29 Gundalow - 1 (Drainage Area)



29 Gundalow - 1 (Drainage Area)



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: **Not Monitored – Could not access due to construction/drainage improvement work**

Observations/Notes:

Location: 29 Gundalow – 2 (Culvert)

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

pH: **9.5**

Observations/Notes: ~ 4" of standing water in culvert

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: **7.2**

Observations/Notes: Small area of standing water adjacent to 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: **7.1**

Observations/Notes: ~ 8" of standing water extending ~ 18" 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

- Major construction/drainage improvements at 64 Gundalow Landing completed on 7/16. Grading along edges of stone ditch area and sod being placed on 7/17.