



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: **6/29/2020** Time: **1315** ⁺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 with some light rain & thunderstorms, no measurable precipitation

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

pH Meter Information (make/model): Hanna HI98107

Calibration Method: 2 Point

Date: **6/29/20** Time: **1310**

Notes:

PROJECT TEAM

PROJECT OWNER

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CURRENT/RECENT SITE WORK ACTIVITIES / NOTES

- 29 Gundalow resident periodically watering grass/sod. No watering occurring at time of inspection.

PHOTOGRAPHS



29 Gundalow -1 (Drainage Area)



29 Gundalow -2 (Culvert)



64 Gundalow - 1 (Drainage Course)



64 Gundalow -2 (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: No water at surface

Location: 29 Gundalow – 2 (Culvert)

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

pH: **8.0**

Observations/Notes: Standing water approx. 1" deep, extending 8" from end of inlet

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: No visible 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

- No visible standing water at 29 Gundalow – 1, 64 Gundalow – 1, 64 Gundalow – 2, and 4 Brickyard Circle – 1.



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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:

Date: **6/30/2020** Time: **1010** ⁺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): On 6/29 variable rain, scattered thunderstorms throughout evening

Amount of rainfall (inches): 0.81

++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): 6/29 cloudy AM with variable rain and scattered thunderstorms PM, 6/30 mostly cloudy

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

pH Meter Information (make/model): Hanna HI98107

Calibration Method: 2 Point

Date: **6/30/20** Time: **1005**

Notes:

PROJECT TEAM

PROJECT OWNER

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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 -1 (Drainage Area) precipitate on stone close-up



29 Gundalow -2 (Culvert)



64 Gundalow -1 (Drainage Course)



64 Gundalow -2 (Drainage Course)

PHOTOGRAPHS



64 Gundalow – 2 (Drainage Course)



4 Brickyard Circle – 1 (Drainage Course)



Knight's Brook – 1 (Upstream in Brook)



Knights Brook – 2 (Downstream in Brook)



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



Hannah – 1 (Wetland NW-22)

PHOTOGRAPHS



Hannah – 2 (Wetland NW-24)



Flynn Pit (Wetland NW-4)

DRAINAGE AREA MONITORING

Location: 29 Gundalow – 1 (Drainage Area)

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

pH: **10.0**

Observations/Notes: Standing water ~4" deep, extending 18" 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: **9.3**

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: **8.6**

Observations/Notes: ~ 8" of standing water extending ~36" 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: **5.6**

Observations/Notes: ~2" of standing water at culvert inlet

Location: 4 Brickyard Circle – 1 (Drainage Course)

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

pH: **6.3**

Observations/Notes: ~ 5" of standing water extending ~ 10" beyond culvert outlet in grassed drainage way

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

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

pH: **7.1**

Observations/Notes:

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

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

pH: **7.2**

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: **7.2**

Observations/Notes:

Location: Hannah – 1 (Wetland NW-22)

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

pH: --

Observations/Notes:

Location: Hannah – 2 (Wetland NW-24)

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

pH: ---

Observations/Notes: No standing water, saturated soil

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

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

pH: 5.8

Observations/Notes: No standing water at monitoring location, reading taken approximately 4' southeast into wetland

Location:

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

pH:

Observations/Notes:

OTHER COMMENTS AND OBSERVATIONS

- 0.81 inches of rain within 24 hours prior to inspection.
- Standing water observed in all Gundalow Landing and Brickyard Circle locations for first time since monitoring began.



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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:

Date: **7/1/2020** Time: **0740** ⁺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): On 6/30 variable light and heavy rain throughout evening

Amount of rainfall (inches): 2.25

++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): 6/30 cloudy AM with variable light and heavy rain throughout evening, 7/1 cloudy AM with intermittent light showers

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

pH Meter Information (make/model): Hanna HI98107

Calibration Method: 2 Point
Date: **7/1/20** Time: **0735**

Notes:

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PROJECT OWNER

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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 Drainage Course



64 Gundalow Drainage Course

PHOTOGRAPHS



64 Gundalow – 2 (Drainage Course) with stone deposition



4 Brickyard Circle – 1 (Drainage Course)



Knight's Brook – 1 (Upstream in Brook)



Knights Brook – 2 (Downstream in Brook)



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



Hannah – 1 (Wetland NW-22)

PHOTOGRAPHS



Hannah – 2 (Wetland NW-24)



Flynn Pit (Wetland NW-4)

DRAINAGE AREA MONITORING

Location: 29 Gundalow – 1 (Drainage Area)

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

pH: **9.6**

Observations/Notes: Standing water ~4" deep, extending 18" 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: **9.5**

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: **8.7**

Observations/Notes: ~ 10" of standing water extending ~5' beyond culvert outlet in stone drainage area. Active flow observed through drainage course.

Location: 64 Gundalow – 2 (Drainage Course)

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

pH: **8.2**

Observations/Notes: Approximately 10-12 linear feet of scour of stone drainage course observed. Crushed stone deposited near inlets to Brickyard Circle culverts. Active flow observed through drainage course.

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 ~ 12" beyond culvert outlet in grassed drainage area. Scoured crushed stone from 64 Gundalow does not appear to have transported through culverts to 4 Brickyard Circle drainage area.

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

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

pH: **6.9**

Observations/Notes:

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

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

pH: **7.0**

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: **7.1**

Observations/Notes:

Location: Hannah – 1 (Wetland NW-22)

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

pH: **6.3**

Observations/Notes: Large area of standing water ~5" deep

Location: Hannah – 2 (Wetland NW-24)

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

pH: **6.5**

Observations/Notes: Some small pockets of standing water ~1.5" deep

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

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

pH: **6.3**

Observations/Notes:

Location:

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

pH:

Observations/Notes:

OTHER COMMENTS AND OBSERVATIONS

- 2.25 inches of rain within 24 hours prior to inspection
- Approximately 10-12 linear feet of scour observed in 64 Gundalow drainage course. Stone scour was deposited in drainage way adjacent to Brickyard Circle culvert inlets. Stone does not appear to have been transported through culverts to the 4 Brickyard – 1 monitoring location.
- Water observed in all Newington monitoring locations for the first time since monitoring began.
- Active flow through Gundalow Landing and Brickyard Circle drainage way was observed for first time since monitoring began.



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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:

Date: **7/2/2020** Time: **1010** ⁺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, no measurable precipitation

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

pH Meter Information (make/model): Hanna HI98107

Calibration Method: 2 Point
Date: **7/2/20** Time: **1005**

Notes:

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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: **9.5**

Observations/Notes: Standing water ~4" deep, extending 14" 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: **9.2**

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: **8.6**

Observations/Notes: ~ 7" of standing water extending ~3' beyond culvert outlet in stone drainage course

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: **6.7**

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.



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Location:

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GZA Project No:

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TYPE OF INSPECTION:

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

Date: **7/3/2020** Time: **1030** ⁺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, no measurable precipitation

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

pH Meter Information (make/model): Hanna HI98107

Calibration Method: 2 Point
Date: **7/3/20** Time: **1025**

Notes:

PROJECT TEAM

PROJECT OWNER

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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: **9.3**

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: **9.2**

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: **8.0**

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: **6.3**

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: **6.7**

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.