



DRAINAGE MONITORING REPORT

GEOTECHNICAL | ENVIRONMENTAL | ECOLOGICAL | WATER | CONSTRUCTION MANAGEMENT

Known for excellence. Built on trust.

Eversource Transmission Line:

F107 - Seacoast Reliability Project

Location:

Durham, New Hampshire

GZA Project No:

04.0190967.00

TYPE OF INSPECTION:

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

Date: **6/29/20** Time: **1345** ⁺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, no measurable precipitation recorded

Weather conditions (time of inspection): Partly 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

Eversource

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CURRENT/RECENT SITE WORK ACTIVITIES / NOTES

- None

PHOTOGRAPHS



UNH Wetland - 1 (Stormwater Area)



UNH Wetland - 2 (Stormwater Area)



UNH Wetland - 3 (Cattail Wetland)



UNH Wetland - 4 (Cattail Wetland)



UNH Wetland - 5 (Cattail Wetland)



UNH Wetland - 6 (Cattail Wetland)

PHOTOGRAPHS



College Brook – 1 (Upstream in Brook)



College Brook - 2 (Downstream in Brook)



CB – 1 (Catch Basin)



CB – 2 (Catch Basin)



RG – 1 (Rain Garden)

DRAINAGE AREA MONITORING

Location: UNH Wetland – 1 (Stormwater Area)

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

pH: ---

Observations/Notes: No visible standing water in the stormwater area

Location: UNH Wetland – 2 (Stormwater Area)

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

pH: ---

Observations/Notes:

Location: UNH Wetland – 3 (Cattail Wetland)

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

pH: ---

Observations/Notes:

Location: UNH Wetland – 4 (Cattail Wetland)

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

pH: ---

Observations/Notes:

Location: UNH Wetland – 5 (Cattail Wetland)

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

pH: ---

Observations/Notes:

Location: UNH Wetland – 6 (Cattail Wetland)

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

pH: ---

Observations/Notes:

Location: College Brook – 1 (Upstream in Brook)

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

pH: 7.6

Observations/Notes:

Location: College Brook – 2 (Downstream in Brook)

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

pH: 7.4

Observations/Notes:

Location: CB – 1 (Catch Basin)

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

pH: **7.2**

Observations/Notes: No visible flow into outlet

Location: CB – 2 (Catch Basin)

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

pH: **6.6**

Observations/Notes: No visible flow into outlet

Location: RG – 1 (Rain Garden)

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

pH: **7.2**

Observations/Notes: No visible flow into outlets

Location: A Lot – 1 (Drainage Swale)

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

pH: **Not Monitored**

Observations/Notes:

Location: Reservoir Brook – 1 (Brook)

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

- All wetland monitoring locations observed to be dry



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F107 - Seacoast Reliability Project

Location:

Durham, New Hampshire

GZA Project No:

04.0190967.00

TYPE OF INSPECTION: Daily Weekly Storm Event⁺ Reduced Frequency⁺⁺
 Other:

Date: **6/30/20** Time: **1140** ⁺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: **6/25/20** Time: **1055**

Notes:

PROJECT TEAM

PROJECT OWNER

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CURRENT/RECENT SITE WORK ACTIVITIES / NOTES

- None

PHOTOGRAPHS



UNH Wetland - 1 (Stormwater Area)



UNH Wetland - 2 (Stormwater Area)



UNH Wetland - 3 (Cattail Wetland)



UNH Wetland - 4 (Cattail Wetland)



UNH Wetland - 5 (Cattail Wetland)



UNH Wetland - 6 (Cattail Wetland)

PHOTOGRAPHS



College Brook - 1 (Upstream in Brook)



College Brook - 2 (Downstream in Brook)



CB - 1 (Catch Basin)



CB - 2 (Catch Basin)



RG - 1 (Rain Garden)



A Lot - 1 (Drainage Swale)

PHOTOGRAPHS



Reservoir Brook – 1 (Brook)

DRAINAGE AREA MONITORING

Location: UNH Wetland – 1 (Stormwater Area)

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

pH: ---

Observations/Notes:

Location: UNH Wetland – 2 (Stormwater Area)

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

pH: **8.1**

Observations/Notes: Standing water variable depth, max ~ 4"

Location: UNH Wetland – 3 (Cattail Wetland)

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

pH: ---

Observations/Notes:

Location: UNH Wetland – 4 (Cattail Wetland)

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

pH: ---

Observations/Notes: Soil saturated but no standing water

Location: UNH Wetland – 5 (Cattail Wetland)

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

pH: ---

Observations/Notes:

Location: UNH Wetland – 6 (Cattail Wetland)

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

pH: ---

Observations/Notes:

Location: College Brook – 1 (Upstream in Brook)

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

pH: **7.5**

Observations/Notes:

Location: College Brook – 2 (Downstream in Brook)

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

pH: **7.2**

Observations/Notes:

Location: CB – 1 (Catch Basin)

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

pH: **6.3**

Observations/Notes: No visible flow

Location: CB – 2 (Catch Basin)

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

pH: **6.4**

Observations/Notes: Heavy sheen on water, no visible flow

Location: RG – 1 (Rain Garden)

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

pH: **4.3**

Observations/Notes: Flow observed into rain garden outlet. Water has slightly cloudy appearance.

Location: A Lot – 1 (Drainage Swale)

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

pH: ---

Observations/Notes:

Location: Reservoir Brook – 1 (Brook)

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

pH: **7.2**

Observations/Notes:

Location:

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

pH:

Observations/Notes:

OTHER COMMENTS AND OBSERVATIONS

- Standing water and UNH Wetland – 2 (stormwater area) for first time since 6/23 monitoring event. All other UNH Wetland locations dry.
- Notable decrease of pH in Rain Garden since yesterday. pH on 6/29/20 was 7.2 and pH drop to 4.3 observed today.



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F107 - Seacoast Reliability Project

Location:

Durham, New Hampshire

GZA Project No:

04.0190967.00

TYPE OF INSPECTION:

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

Date: **7/1/20** Time: **1015** ⁺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:

PROJECT TEAM

PROJECT OWNER

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CURRENT/RECENT SITE WORK ACTIVITIES / NOTES

- None

PHOTOGRAPHS



UNH Wetland - 1 (Stormwater Area)



UNH Wetland - 2 (Stormwater Area)



UNH Wetland - 3 (Cattail Wetland)



UNH Wetland - 4 (Cattail Wetland)



UNH Wetland - 5 (Cattail Wetland)



UNH Wetland - 6 (Cattail Wetland)

PHOTOGRAPHS



College Brook – 1 (Upstream in Brook)



College Brook - 2 (Downstream in Brook)



CB – 1 (Catch Basin)



CB – 2 (Catch Basin)



RG – 1 (Rain Garden)



A Lot – 1 (Drainage Swale)

PHOTOGRAPHS



Reservoir Brook – 1 (Brook)

DRAINAGE AREA MONITORING

Location: UNH Wetland – 1 (Stormwater Area)

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

pH: **8.0**

Observations/Notes: Edge of standing water is up to the designated monitoring location.

Location: UNH Wetland – 2 (Stormwater Area)

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

pH: **7.3**

Observations/Notes: Standing water variable depth, max ~ 8"

Location: UNH Wetland – 3 (Cattail Wetland)

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

pH: **7.8**

Observations/Notes: Standing water ~10" deep

Location: UNH Wetland – 4 (Cattail Wetland)

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

pH: **6.6**

Observations/Notes: Standing water ~6" deep

Location: UNH Wetland – 5 (Cattail Wetland)

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

pH: **6.9**

Observations/Notes: Standing water ~6" deep

Location: UNH Wetland – 6 (Cattail Wetland)

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

pH: ---

Observations/Notes:

Location: College Brook – 1 (Upstream in Brook)

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

pH: **7.3**

Observations/Notes:

Location: College Brook – 2 (Downstream in Brook)

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

pH: **7.0**

Observations/Notes:

Location: CB – 1 (Catch Basin)

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

pH: **6.5**

Observations/Notes: Flow visible into and out of catch basin.

Location: CB – 2 (Catch Basin)

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

pH: **6.6**

Observations/Notes: Overland flow from drainage swale entering catch basin. Flow visible exiting outlet pipe.

Location: RG – 1 (Rain Garden)

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

pH: **4.3**

Observations/Notes: Flow observed into rain garden outlet. Water has slightly cloudy appearance.

Location: A Lot – 1 (Drainage Swale)

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

pH: ---

Observations/Notes:

Location: Reservoir Brook – 1 (Brook)

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

pH: **6.9**

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
- Standing water in UNH Wetlands - 1 through UNH Wetlands - 5 for first time since July 13 monitoring event.



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F107 - Seacoast Reliability Project

Location:

Durham, New Hampshire

GZA Project No:

04.0190967.00

TYPE OF INSPECTION:

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

Date: **7/2/20** Time: **1055** ⁺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, High 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

- None

PHOTOGRAPHS



UNH Wetland -1 (Stormwater Area)



UNH Wetland - 2 (Stormwater Area)



UNH Wetland -3 (Cattail Wetland)



UNH Wetland - 4 (Cattail Wetland)



UNH Wetland - 5 (Cattail Wetland)



UNH Wetland - 6 (Cattail Wetland)

PHOTOGRAPHS



College Brook – 1 (Upstream in Brook)



College Brook - 2 (Downstream in Brook)



CB – 1 (Catch Basin)



CB – 2 (Catch Basin)



RG – 1 (Rain Garden)

DRAINAGE AREA MONITORING

Location: UNH Wetland – 1 (Stormwater Area)

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

pH: ---

Observations/Notes: Standing water approximately 3' away from UNH Wetland – 1 measured 9.2 pH

Location: UNH Wetland – 2 (Stormwater Area)

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

pH: **8.7**

Observations/Notes: Standing water variable depth, max ~ 7"

Location: UNH Wetland – 3 (Cattail Wetland)

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

pH: **7.8**

Observations/Notes: Standing water ~8" deep

Location: UNH Wetland – 4 (Cattail Wetland)

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

pH: **6.7**

Observations/Notes: Standing water ~6" deep

Location: UNH Wetland – 5 (Cattail Wetland)

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

pH: **6.9**

Observations/Notes: Standing water ~6" deep

Location: UNH Wetland – 6 (Cattail Wetland)

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

pH: ---

Observations/Notes:

Location: College Brook – 1 (Upstream in Brook)

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

pH: **7.4**

Observations/Notes:

Location: College Brook – 2 (Downstream in Brook)

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

pH: **7.2**

Observations/Notes:

Location: CB – 1 (Catch Basin)

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

pH: **6.5**

Observations/Notes: Flow observed into catch basin from drain piping and out through outlet pipe.

Location: CB – 2 (Catch Basin)

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

pH: **6.7**

Observations/Notes: Overland flow from drainage swale entering catch basin. Flow observed out of catch basin through outlet pipe.

Location: RG – 1 (Rain Garden)

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

pH: **4.2**

Observations/Notes: Surface flow visible into outlet. Standing water has cloudy appearance, especially near inlet on west side.

Location: A Lot – 1 (Drainage Swale)

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

pH: **Not Monitored**

Observations/Notes:

Location: Reservoir Brook – 1 (Brook)

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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GZA Project No:

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TYPE OF INSPECTION:

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

Date: **7/3/20** Time: **1115** ⁺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

- None

PHOTOGRAPHS



UNH Wetland -1 (Stormwater Area)



UNH Wetland - 2 (Stormwater Area)



UNH Wetland -3 (Cattail Wetland)



UNH Wetland - 4 (Cattail Wetland)



UNH Wetland - 5 (Cattail Wetland)



UNH Wetland - 6 (Cattail Wetland)

PHOTOGRAPHS



College Brook - 1 (Upstream in Brook)



College Brook - 2 (Downstream in Brook)



CB - 1 (Catch Basin)



CB - 2 (Catch Basin)



RG - 1 (Rain Garden)

DRAINAGE AREA MONITORING

Location: UNH Wetland – 1 (Stormwater Area)

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

pH: ---

Observations/Notes:

Location: UNH Wetland – 2 (Stormwater Area)

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

pH: **8.7**

Observations/Notes: Standing water variable depth, max ~ 7"

Location: UNH Wetland – 3 (Cattail Wetland)

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

pH: **7.8**

Observations/Notes: Standing water ~8" deep

Location: UNH Wetland – 4 (Cattail Wetland)

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

pH: **6.6**

Observations/Notes: Standing water ~6" deep

Location: UNH Wetland – 5 (Cattail Wetland)

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

pH: **6.9**

Observations/Notes: Standing water ~6" deep

Location: UNH Wetland – 6 (Cattail Wetland)

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

pH: ---

Observations/Notes:

Location: College Brook – 1 (Upstream in Brook)

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

pH: **7.4**

Observations/Notes:

Location: College Brook – 2 (Downstream in Brook)

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

pH: **7.3**

Observations/Notes:

Location: CB – 1 (Catch Basin)

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

pH: **6.5**

Observations/Notes: Flow observed into catch basin from drain piping and out through outlet pipe.

Location: CB – 2 (Catch Basin)

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

pH: **6.8**

Observations/Notes: Overland flow from drainage swale entering catch basin. Flow observed out of catch basin through outlet pipe.

Location: RG – 1 (Rain Garden)

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

pH: **4.4**

Observations/Notes: Flow observed into Rain Garden outlet. Standing water has cloudy appearance, especially near inlet on west side.

Location: A Lot – 1 (Drainage Swale)

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

pH: **Not Monitored**

Observations/Notes:

Location: Reservoir Brook – 1 (Brook)

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