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: **11/16/2020** Time: **1200** +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 rain late evening of 11/15 and into early morning of 11/16

Amount of rainfall (inches): 0.28

++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 sun and clouds with no measurable precipitation until evening of 11/15

Weather conditions (time of inspection): Fair, High 30's

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

Calibration Method: 2 Point
Date: **11/16/20** Time: **1105**

Notes:

PROJECT TEAM

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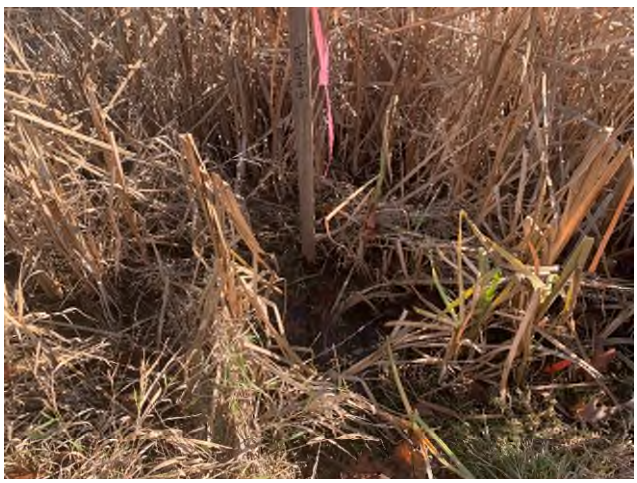
CURRENT/RECENT SITE WORK ACTIVITIES / NOTES

- 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)

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: **7.6**
Observations/Notes: Large area standing water, max depth approx. 1".

Location: UNH Wetland – 3 (Cattail Wetland)
Status of surface water at the time of inspection? ☐ Dry ☒ Standing ☐ Flowing
pH: **7.2**
Observations/Notes: Standing water approx. 3" deep

Location: **UNH Wetland – 4 (Cattail Wetland)**
Status of surface water at the time of inspection? ☐ Dry ☒ Standing ☐ Flowing
pH: **6.6**
Observations/Notes: Intermittent standing water approx. 4" deep

Location: **UNH Wetland – 5 (Cattail Wetland)**
Status of surface water at the time of inspection? ☐ Dry ☒ Standing ☐ Flowing
pH: **6.4**
Observations/Notes: Intermittent standing water approx. 4" 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: **Not Monitored**
Observations/Notes:

Location: **College Brook – 2 (Downstream in Brook)**
Status of surface water at the time of inspection? ☐ Dry ☐ Standing ☐ Flowing
pH: **Not Monitored**
Observations/Notes:

Location: **CB – 1 (Catch Basin)**
Status of surface water at the time of inspection? ☐ Dry ☐ Standing ☐ Flowing
pH: **Not Monitored**
Observations/Notes:

Location: **CB – 2 (Catch Basin))**
Status of surface water at the time of inspection? ☐ Dry ☐ Standing ☐ Flowing
pH: **Not Monitored**
Observations/Notes:

Location: **RG – 1 (Rain Garden)**
Status of surface water at the time of inspection? ☐ Dry ☐ Standing ☐ Flowing
pH: **Not Monitored**
Observations/Notes:

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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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: **11/18/2020** Time: **0915** +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): Partly cloudy, low 30's

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

Calibration Method: 2 Point
Date: **11/18/20** Time: **0810**

Notes:

PROJECT TEAM

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CURRENT/RECENT SITE WORK ACTIVITIES / NOTES

- None

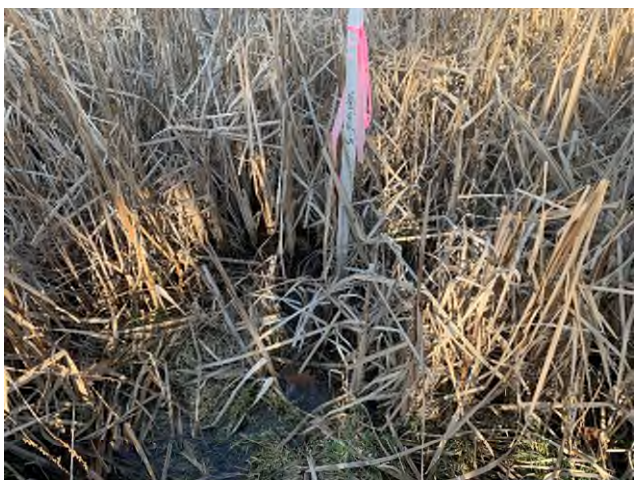
PHOTOGRAPHS

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)

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: **7.7**
Observations/Notes: Intermittent standing water, max depth approx. 1".

Location: UNH Wetland – 3 (Cattail Wetland)
Status of surface water at the time of inspection? ☐ Dry ☒ Standing ☐ Flowing
pH: **7.5**
Observations/Notes: Standing water approx. 3" deep

Location: **UNH Wetland – 4 (Cattail Wetland)**
Status of surface water at the time of inspection? ☐ Dry ☒ Standing ☐ Flowing
pH: **6.8**
Observations/Notes: Intermittent standing water approx. 4" deep

Location: **UNH Wetland – 5 (Cattail Wetland)**
Status of surface water at the time of inspection? ☐ Dry ☒ Standing ☐ Flowing
pH: **6.4**
Observations/Notes: Intermittent standing water approx. 4" 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: **Not Monitored**
Observations/Notes:

Location: **College Brook – 2 (Downstream in Brook)**
Status of surface water at the time of inspection? ☐ Dry ☐ Standing ☐ Flowing
pH: **Not Monitored**
Observations/Notes:

Location: **CB – 1 (Catch Basin)**
Status of surface water at the time of inspection? ☐ Dry ☐ Standing ☐ Flowing
pH: **Not Monitored**
Observations/Notes:

Location: **CB – 2 (Catch Basin))**
Status of surface water at the time of inspection? ☐ Dry ☐ Standing ☐ Flowing
pH: **Not Monitored**
Observations/Notes:

Location: **RG – 1 (Rain Garden)**
Status of surface water at the time of inspection? ☐ Dry ☐ Standing ☐ Flowing
pH: **Not Monitored**
Observations/Notes:

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

- Thin layer of ice on surface of all locations sampled. Ice was broken to obtain pH measurements.

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Date: **11/20/2020** Time: **0915** +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, high 40's

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

Calibration Method: 2 Point
Date: **11/20/20** Time: **1005**

Notes:

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CURRENT/RECENT SITE WORK ACTIVITIES / NOTES

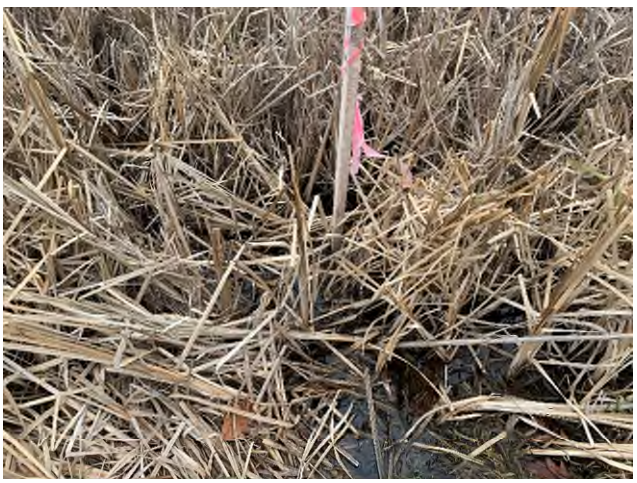
- None

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)

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: ****7.9**

Observations/Notes: **No standing water at UNH Wetland – 2, pH reading taken from adjacent area of intermittent standing water approx. 36" east, max depth approx. 1".

Location: UNH Wetland – 3 (Cattail Wetland)
Status of surface water at the time of inspection? ☐ Dry ☒ Standing ☐ Flowing

pH: **7.3**

Observations/Notes: Standing water approx. 3" deep

Location: **UNH Wetland – 4 (Cattail Wetland)**
Status of surface water at the time of inspection? ☐ Dry ☒ Standing ☐ Flowing

pH: **6.5**

Observations/Notes: Intermittent standing water approx. 4" deep

Location: **UNH Wetland – 5 (Cattail Wetland)**
Status of surface water at the time of inspection? ☐ Dry ☒ Standing ☐ Flowing

pH: **6.3**

Observations/Notes: Intermittent standing water approx. 4" 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: **Not Monitored**

Observations/Notes:

Location: **College Brook – 2 (Downstream in Brook)**
Status of surface water at the time of inspection? ☐ Dry ☐ Standing ☐ Flowing

pH: **Not Monitored**

Observations/Notes:

Location: **CB – 1 (Catch Basin)**
Status of surface water at the time of inspection? ☐ Dry ☐ Standing ☐ Flowing
pH: **Not Monitored**
Observations/Notes:

Location: **CB – 2 (Catch Basin))**
Status of surface water at the time of inspection? ☐ Dry ☐ Standing ☐ Flowing
pH: **Not Monitored**
Observations/Notes:

Location: **RG – 1 (Rain Garden)**
Status of surface water at the time of inspection? ☐ Dry ☐ Standing ☐ Flowing
pH: **Not Monitored**
Observations/Notes:

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

- Thin layer of ice on surface of all locations sampled. Ice was broken to obtain pH measurements.