

GEOTECHNICAL | ENVIRONMENTAL | ECOLOGICAL | WATER | CONSTRUCTION MANAGEMENT

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TYPE OF INSPECTION:
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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ENVIRONMENTAL CONSULTANT

Eversource Transmission

F107 - Seacoast

Reliability Project

Durham, New Hampshire

04.0190967.00

Line:

Location:

GZA Project No:

GZA GeoEnvironmental, Inc. Attn: Deborah Zarta Gier Phone: 603-380-5024

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UNH Wetland - 6 (Cattail Wetland)

CURRENT/RECENT SITE WORK ACTIVITIES / NOTES

UNH Wetland - 5 (Cattail Wetland)

None

PHOTOGRAPHS UNH Wetland -1 (Stormwater Area) UNH Wetland – 2 (Stormwater Area) UNH Wetland -3 (Cattail Wetland) UNH Wetland - 4 (Cattail Wetland)

DRAINAGE MONITORING REPORT



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? pH: Observations/Notes: No visible standing water in the	☑ Dry	☐ Standing	☐ Flowing
<u> </u>			
Location: UNH Wetland – 2 (Stormwater Area) Status of surface water at the time of inspection? pH: Observations/Notes:	⊠ Dry	☐ Standing	Flowing
Location: UNH Wetland – 3 (Cattail Wetland) Status of surface water at the time of inspection? pH: Observations/Notes:	⊠ Dry	☐ Standing	☐ Flowing
Location: UNH Wetland – 4 (Cattail Wetland) Status of surface water at the time of inspection? pH: Observations/Notes:	⊠ Dry	☐ Standing	☐ Flowing
Location: UNH Wetland – 5 (Cattail Wetland) Status of surface water at the time of inspection? pH: Observations/Notes:	⊠ Dry	☐ Standing	☐ Flowing
Location: UNH Wetland – 6 (Cattail Wetland) Status of surface water at the time of inspection? pH: Observations/Notes:	⊠ Dry	☐ Standing	☐ Flowing
Location: College Brook – 1 (Upstream in Brook Status of surface water at the time of inspection? pH: 7.6 Observations/Notes:) Dry	☐ Standing	⊠ Flowing
Location: College Brook – 2 (Downstream in Bro Status of surface water at the time of inspection? pH: 7.4 Observations/Notes:	Dry	☐ Standing	⊠ Flowing

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		☐ 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? pH:	☐ Dry	☐ Standing	☐ Flowing
Observations/Notes:			

OTHER COMMENTS AND OBSERVATIONS

All wetland monitoring locations observed to be dry



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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:

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F107 - Seacoast

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Line:

Location:

GZA Project No:

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CURRENT/RECENT SITE WORK ACTIVITIES / NOTES

None

PHOTOGRAPHS UNH Wetland – 2 (Stormwater Area) UNH Wetland -1 (Stormwater Area) UNH Wetland - 4 (Cattail Wetland) UNH Wetland -3 (Cattail Wetland) UNH Wetland - 5 (Cattail Wetland) UNH Wetland - 6 (Cattail Wetland)



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)



Reservoir Brook – 1 (Brook)

DRAINAGE AREA MONITORING			
Location: UNH Wetland – 1 (Stormwater Area) Status of surface water at the time of inspection? pH: Observations/Notes:	⊠ Dry	☐ Standing	☐ Flowing
Location, HNIII Western J. O. (Chammurater Area)			
Location: UNH Wetland – 2 (Stormwater Area) Status of surface water at the time of inspection? pH: 8.1	☐ Dry		☐ Flowing
Observations/Notes: Standing water variable depth,	max ~ 4	"	
Location: UNH Wetland – 3 (Cattail Wetland) Status of surface water at the time of inspection? pH:	⊠ Dry	☐ Standing	☐ Flowing
Observations/Notes:			
Location: UNH Wetland – 4 (Cattail Wetland) Status of surface water at the time of inspection? pH:	⊠ Dry	☐ Standing	☐ Flowing
Observations/Notes: Soil saturated but no standing	water		
Location: UNH Wetland – 5 (Cattail Wetland) Status of surface water at the time of inspection? pH:	⊠ Dry	☐ Standing	☐ Flowing
Observations/Notes:			
Location: UNH Wetland – 6 (Cattail Wetland) Status of surface water at the time of inspection? pH: Observations/Notes:	⊠ Dry	☐ Standing	☐ Flowing
Location: College Brook – 1 (Upstream in Brook Status of surface water at the time of inspection? pH: 7.5 Observations/Notes:	s)	☐ Standing	⊠ Flowing
Observations/Notes.			
Location: College Brook – 2 (Downstream in Bro Status of surface water at the time of inspection? pH: 7.2 Observations/Notes:	Dok)	☐ Standing	⊠ Flowing

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?

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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TYPE OF INSPECTION:	☐ Daily ☐ Weekly ☒ Storm Event ⁺ ☐ Reduced Frequency ⁺⁺ ☐ Other:
If yes, how did you determine wl ⊠ Other If other, please desc	ncy
Inspector name(s) and title(s): Mothers present/affiliation(s): Weather conditions (since last in evening, 7/1 cloudy AM with integration (time of inspector).	nspection): 6/30 cloudy AM with variable light and heavy rain throughout ermittent light showers
pH Meter Information (make/mo Calibration Method: 2 Point Date: 7/1/20 Time: 0735 Notes:	del): Hanna HI98107

Hampshire GZA Project No: 04.0190967.00

Eversource Transmission

F107 - Seacoast

Reliability Project

Durham, New

Line:

Location:

PROJECT TEAM

PROJECT OWNER

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CURRENT/RECENT SITE WORK ACTIVITIES / NOTES

• None



UNH Wetland -1 (Stormwater Area)



UNH Wetland -3 (Cattail Wetland)



UNH Wetland - 5 (Cattail Wetland)



UNH Wetland – 2 (Stormwater Area)



UNH Wetland - 4 (Cattail Wetland)



UNH Wetland - 6 (Cattail Wetland)



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)



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.
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
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 □ Plowing
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?

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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TYPE OF INSPECTION:	☐ Daily ☐ Weekly ☐ Storm Event ☐ Reduced Frequency ☐ Other:
(i.e., Monthly due to dry condition	ons):
Inspector name(s) and title(s): Modern present/affiliation(s): Weather conditions (since last in the weather conditions (time of inspector))	
pH Meter Information (make/mo	odol)- Hanna Hi09107
Calibration Method: 2 Point Date: 7/2/20 Time: 1005 Notes:	rueij. Haima misotor

PROJECT TEAM

PROJECT OWNER

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Reliability Project

Location:

Durham, New Hampshire

GZA Project No:

04.0190967.00

CURRENT/RECENT SITE WORK ACTIVITIES / NOTES

None



UNH Wetland -1 (Stormwater Area)



UNH Wetland -3 (Cattail Wetland)



UNH Wetland - 5 (Cattail Wetland)



UNH Wetland – 2 (Stormwater Area)



UNH Wetland - 4 (Cattail Wetland)



UNH Wetland - 6 (Cattail Wetland)



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?
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?
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:

Page 5 of 5

Location: CB – 1 (Catch Basin)
Status of surface water at the time of inspection?
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 inequation?
Status of surface water at the time of inspection?
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:
Pri-
Observations/Notes:
OTHER COMMENTS AND OBSERVATIONS

• None



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TYPE OF INSPECTION:					
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:					

Eversource Transmission Line:

F107 - Seacoast Reliability Project

Location:

Durham, New Hampshire

GZA Project No:

04.0190967.00

PROJECT TEAM

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CURRENT/RECENT SITE WORK ACTIVITIES / NOTES

None



UNH Wetland -1 (Stormwater Area)



UNH Wetland -3 (Cattail Wetland)



UNH Wetland - 5 (Cattail Wetland)



UNH Wetland - 2 (Stormwater Area)



UNH Wetland - 4 (Cattail Wetland)



UNH Wetland - 6 (Cattail Wetland)



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? pH: Observations/Notes:	⊠ Dry	☐ Standing	☐ Flowing		
Landing INIII Welley L. O. (O. commenter Acces)					
Location: UNH Wetland – 2 (Stormwater Area) Status of surface water at the time of inspection? pH: 8.7	☐ Dry		☐ Flowing		
Observations/Notes: Standing water variable depth, max ~ 7"					
Location: UNH Wetland – 3 (Cattail Wetland) Status of surface water at the time of inspection? pH: 7.8	☐ Dry	⊠ Standing	☐ Flowing		
Observations/Notes: Standing water ~8" deep					
Location: UNH Wetland – 4 (Cattail Wetland) Status of surface water at the time of inspection? pH: 6.6	☐ Dry	Standing	☐ Flowing		
Observations/Notes: Standing water ~6" deep					
Location: UNH Wetland – 5 (Cattail Wetland) Status of surface water at the time of inspection? pH: 6.9 Observations/Notes: Standing water ~6" deep	□ Dry		☐ Flowing		
Location: UNH Wetland – 6 (Cattail Wetland) Status of surface water at the time of inspection? pH: Observations/Notes:	⊠ Dry	☐ Standing	☐ Flowing		
	`				
Location: College Brook – 1 (Upstream in Brook Status of surface water at the time of inspection? pH: 7.4 Observations/Notes:	⟨) □ Dry	☐ Standing	⊠ Flowing		
Leasting Callers Peach, 2 (Paymetrees in Presh)					
Location: College Brook – 2 (Downstream in Bro Status of surface water at the time of inspection? pH: 7.3	Dry	☐ Standing	⊠ Flowing		
Observations/Notes:					

Page 5 of 5

Location: CB – 1 (Catch Basin)					
Status of surface water at the time of inspection? Dry Standing Stand					
pH: 6.5					
pri. v.3					
Observations/Notes: Flow observed into catch basin from drain piping and out through outlet pipe.					
Locations CD, 2/Cataly Basis))					
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 inappation?					
Status of surface water at the time of inspection?					
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