



CONSTRUCTION MONITORING REPORT

Eversource Transmission Lines:
F107

**Madbury, Durham,
Newington, Portsmouth,
NH**

Alteration of Terrain Permit:
SEC Docket No. 2015-004

Environmental Permit:
SEC Docket No. 2015-004

USEPA NOI Tracking No:
**NHR1000QN
NHR1000QT
NHR1000QO**

NAI Project No:
23840.39

TYPE OF INSPECTION: Weekly Storm Event Incident Other

Date: **06/06/19** Time: **12:00pm** 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
Storm event information is from Pease Air Force Base.

+Storm event information (approx.):	Start date: 06/02/19	Amount (inches):0.38in
	Start date: 06/06/19	Amount (inches):1.09in
	Start date:	Amount (inches):

Inspector name(s), title(s) and qualifications: **Matthew Smith, Normandeau Environmental Inspector and Marc Jacobs, CPESC, NHCWS**

Others present/qualifications(s): **Sam Eames Eversource construction representative**

Weather conditions (since last inspection): **Mostly clear with scattered clouds with some rain Sunday night and heavy rain Wednesday evening.**

Weather conditions (time of inspection & future outlook): **Forecast is mostly clear with temperatures in the 70's.**

CONSTRUCTION SITE SEQUENCING AND DISTURBANCE

Disturbed area and ongoing work (acreage & description): < 1 acre

Proceeding per approved plan? Yes No, if not, note area and explain:

Operating within phasing limitations? Yes No, if not, note area and explain:

PROJECT TEAM

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General Comments

- While excavating along the cable trench alignment on June 3, 2019, McCourt struck and broke an unmarked waterline next to Colovos Rd at UNH. The scene was properly secured and the correct personnel were notified. To access the pipe for repair, the crew pumped the water from the trench to a rain garden just south of their trench.
- The straw waddle along trenching activities in A lot overtopped again in the storm event on Jun 5th, 2019.

Work completed this week:

- *Portsmouth*
 - *Boulos continues to do work at substation.*
- *Newington*
 - *MJ is beginning to pour foundation for Str. F107-139.*
- *Durham*
 - *McCourt continue excavation in A lot and next to Colovos Rd.*
 - *Strategic Inc. continues to manage soil stockpile area in A lot.*

Erosion and sediment control items and observations:

- The water from the broken main that was pumped out of the trench and into the rain garden was turbid due to the high silt and clay content in the soil.
- Once capacity was reached in the rain garden, turbid water began to discharge into College brook from the rain garden's outlet structure.
- When I arrived on site I evaluated the incident and notified McCourt to stop dewatering activities.
- The turbid discharge was comprised of fine particles that do not easily settle out of suspension.
- On the following morning on June 4, 2019. No turbid discharge was observed at the rain garden outlet structure.
- Moving forward, the plan for dewatering the trench is as follows:
 - Water will be pumped across Colovos Road and discharged into the upland grassy area north of College Brook
 - The discharge end of that hose will be connected to a filter bag surrounded by straw bales that are double staked and/or silt fencing.
 - Additional BMPs will be employed as needed.
 - McCourt will not pump water until they fully install the above items, they are waiting for material.
- **BMPs**
 - Once McCourt receives the materials they will install the action item above as well as additional BMPs in the low area in A lot adjacent to their trenching activities (see photograph below)
 - Straw waddles installed around lay down area off of Gosling Road need to be staked in, additional waddle/berm may need to be installed, (see photograph below).

PHOTOGRAPHS



Fig 1: The trench that was flooded due to the water line break. Viewing south. (Approx. 1330 on Jun 3, 2019).



Fig 2: The water line repair patch. Viewing west. (Approx. 1330 on Jun 3, 2019).



Fig 3: McCourt pumped the water out of the trench and discharged into the Rain garden along Colovos Rd. Viewing north. (Approx. 1330 on Jun 3, 2019).



Fig 4: Rain garden along Colovos Rd. The rain garden is full of water. Viewing west. (Approx. 1330 on Jun 3, 2019).

PHOTOGRAPHS



Fig 5: Discharge from the rain garden into College brook. Viewing east. (Approx. 1330 on Jun 3, 2019).



Fig 6: Discharge from the rain garden into College Brook. Viewing east. (Approx. 1330 on Jun 3, 2019).



Fig 7: College Brook. There is no more sediment discharging into the Brook. Viewing east. (Approx. 0630 on Jun 4, 2019).



Fig 8: Rain garden. The water has drained and subsided. Viewing west. (Approx. 0630 on Jun 4, 2019).

PHOTOGRAPHS



Fig 9: Proposed area east of Colovos Rd to discharge the trench water, with filter bag & BMPs installed. Viewing north. (Jun 5, 2019).



Fig 10: Repairs made and excavation filled with stone. Viewing south. (Jun 5, 2019).



Fig 11: Low area in A lot where McCourt will install additional BMPs. Viewing east. (Jun 6, 2019).



Fig 12: Straw wattle surrounding lay down yard off of Gosling Road needs to be staked in. Viewing west. (Jun 6, 2019).

PHOTOGRAPHS



Fig 13: Area in lay down yard off of Gosling Road where additional BMPs may be required. Viewing north. (Jun 6, 2019).



Fig 14: Silt fence near Str. F107-137 installed correctly. Viewing north. (Jun 6, 2019).

CERTIFICATION:

OPERATING WITHIN LIMITS?

N/A YES NO if not, please explain:

SURFACE WATER QUALITY

Storm water discharge from the site at the time of inspection? YES NO N/A
 Storm water discharge consistent with water quality standards? YES NO N/A
 Turbidity visually observed? YES NO

If yes, check appropriate location(s) below, and describe discharge:

Location: **College Brook, A lot**
 Pond location:
 Adjacent surface water or wetland: **Small stream/wetland.**

Description: McCourt struck and broke a waterline next to Colovos Rd at UNH. Turbid release at College Brook. Small amount of sediment discharged underneath the waddles installed adjacent to trenching activities in A lot.

TEMPORARY EROSION AND SEDIMENT CONTROLS (TESC)

Installed and functioning per the SWPPP? YES NO N/A (See BMP installation/repair items above)

If not, explain necessary repairs or other maintenance to be taken for each of the following categories. Detail what needs to be done, in what location, and what has been corrected since the last monitoring inspection.

- Erosion prevention (stabilize exposed soils):
- Runoff control (direct storm water):
- Sediment control (clean up sediment/sediment-laden storm water):

Are any corrective actions required? YES NO if so, please describe? See comments above.

* Note: The permit differentiates between conditions requiring repairs and maintenance, and those requiring corrective action. Corrective actions are triggered only for specific, more serious conditions and require a corrective action form be filled out. Please refer to Part 5 of the CGP for additional information

PERMANENT EROSION AND SEDIMENTATION CONTROLS (PESC)

Disturbed areas must have a uniform perennial vegetative cover with 85% density, or equivalent physical stabilization, to be considered permanently stabilized (per the SWPPP).

Installed and functioning per the SWPPP? YES NO N/A

If not, explain what was not performed correctly (construction/stabilization) for each of the following categories. Detail what/where needs to be corrected, and what has been corrected since the last monitoring inspection.

Storm Water Conveyance, Soil Stabilization, and Storm Water Treatment, Other: **Maintenance needs to be done on BMPs.**

OTHER COMMENTS AND OBSERVATIONS:

-Corrective measures are being taken to prevent future sediment discharge into College Brook and in A lot.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

This form is completed and signed in accordance with the Signatory Requirements specified in Appendix I.11 of the NPDES CGP for the project site and NOI identified above.

Authorized signature: _____



Date: _____ 6/06/19