



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
NHR1000S6**

NAI Project No:
23840.39

TYPE OF INSPECTION: Weekly Storm Event Incident Corrective Action

Date: **12/12/19** Time: **8:00am** Does this report include 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: 12-09-19	Amount (inches): 0.54in
	Start date:	Amount (inches):
	Start date:	Amount (inches):

NOTE:
* Inspection report for the rain event on 12-09-19 is included in this report.

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): **Cloudy, with temperatures in the 30's.**

Weather conditions (time of inspection & future outlook): **Cloudy. Future forecast shows rain over the weekend with snow early next week. Temperatures ranging in the 20's and 30'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:

General Comments

- Continued BMP maintenance and upkeep is a constant priority in intertidal zones on both sides of the Bay during cable installment.
- Housekeeping such as sweeping of timber mats and roads is a must.
- Drip pans should be placed underneath equipment left on site.
- All contractors on site should have a copy of the construction drawings.

Work completed this week:

- *Portsmouth*
 1. *Boulos continues to do work at substation.*
- *Newington*
 - *GZA continues to manage soils excavated during trenching and drilling activities.*
 - *GZA continues to sample and treat groundwater at the Frink farm.*
 - *McCourt finished trenching and restoration at Frink farm. They are cleaning up the work site and preparing to demobilize.*
 - *JCR continues to build access roads.*
 - *Blu Roc began restoration activities at Gundalow landing/east side of the Bay.*
 - *Mackworth Environmental continues to maintain turbidity barrier for diver cable burial activities at Gundalow landing/east side of the Bay.*
- *Durham.*
 - *JCR continues to build access roads*
 - *MJ Drilling continues to drill foundation for Str. 85.*
 - *Blu Roc completed restoration of on-shore trench on west side of the Bay.*
 - *Mackworth Environmental continues to maintain turbidity barrier for diver cable burial activities at the Getchell property/west side of the Bay.*

Erosion and sediment control items and observations:

- **BMPs**
 - Wetland NW20 has been properly restored and mulched. See photo 23 below.
 - Soil piles must have sediment controls installed around them.
 - BMPs must be installed along access roads in wetlands simultaneous to construction the access roads.

Corrective Action

- The crews had to remove existing sediment controls at Gundalow Landing in order to begin restoration. A rain event, supplemented by significant snow melt, during onshore trench restoration resulted in sediment laden water being discharged into the Bay. The Crew was able to continue to backfill and pack in material to slow the flow of water. At the end of the day crews re-installed the sediment controls and silt curtain. All of the sediment laden water was enclosed by the turbidity barrier that is installed for the diver cable burial. See photos 24-30 below.

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: Gundalow landing
 Pond location: N/A
 Adjacent surface water or wetland: Little Bay

Description: See comments below.

TEMPORARY EROSION AND SEDIMENT CONTROLS (TESC)

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

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

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.

If so, what areas:

Sparse germination: Agricultural zone at Frink farm.
 Dense germination: Strs. 135, 136, 137
 Stabilized (85%+ germination): Field house at UNH, Colovos Rd at UNH, College Brook.

Storm Water Conveance. Soil Stabilization. and Storm Water Treatment. Other:

OTHER COMMENTS AND OBSERVATIONS:

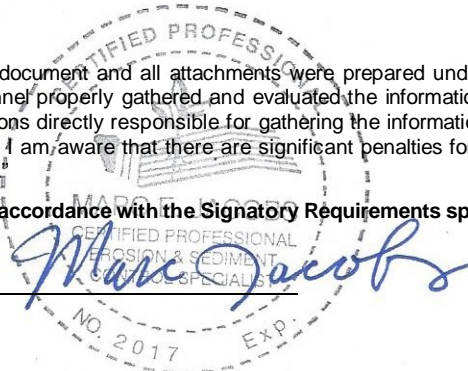
-None other than the above comments.

CERTIFICATION:

"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: _____ 12/12/19

PHOTOGRAPHS



Fig 1: Mackworth installing turbidity barrier on east side of the Bay. Viewing south. (12-05-19).



Fig 2: Diver cable burial and sampling on the east side of the Bay. Viewing southwest. (12-05-19).



Fig 3: Crew building work pad for Str 8. Viewing south. (12-05-19).



Fig 4: Continuing restoration at Getchell property/west side of the Bay. Viewing east. (12-05-19).

PHOTOGRAPHS



Fig 5: Backfilling trench at Frink farm. Viewing east. (12-06-19).



Fig 6: Restoration/winterization at Getchell property/west side of the Bay. Viewing east. (12-06-19).



Fig 7: Restoration/winterization at Getchell property/west side of the Bay. Viewing west. (12-06-19).



Fig 8: Restoration of Getchell property/west side of the Bay. Viewing east. (12-06-19).

PHOTOGRAPHS



Fig 9: Restoration of Getchell property/west side of the Bay. Viewing north. (12-06-19).



Fig 10: Restoration of Getchell property/west side of the Bay. Viewing north. (12-06-19).



Fig 11: Restoration of slope at Getchell property/west side of the Bay. Viewing west. (12-07-19).



Fig 12: Large diameter boulders placed to stabilize toe of slope at Getchell property/west side of bay.. Viewing west. (12-07-19).

PHOTOGRAPHS



Fig 13: Restored salt marsh areas at Getchell property/west side of the Bay. Viewing west. (12-07-19).



Fig 14: Restoration of slope at Getchell property/west side of the Bay. Viewing west. (12-07-19).



Fig 15: Drilling Str. 85. Viewing east. (12-07-19).



Fig 16: Filter sock installed around soil pile at Str. 85. Viewing west. (12-09-19).

PHOTOGRAPHS



Fig 17: Backfilling wetland soils in wetland NW20 at Frink farm. Viewing west. (12-09-19).



Fig 18: Restoring trench at Gundalow landing/east side of the Bay. Viewing east. (12-09-19).



Fig 19: Turbidity barrier at Gundalow landing/east side of the Bay. Viewing west. (12-09-19).



Fig 20: Restored slope at Getchell property/west side of the Bay. Viewing east. (12-09-19).

PHOTOGRAPHS



Fig 21: Restored slope at Getchell property/west side of the Bay, making adjustments to turbidity barrier. Viewing east. (12-09-19).



Fig 22: Restored trench at Frink farm. Viewing west. (12-09-19).



Fig 23: Wetland NW20 restored and mulched. The limit-of-work silt fence has been removed. Viewing west. (12-10-19).

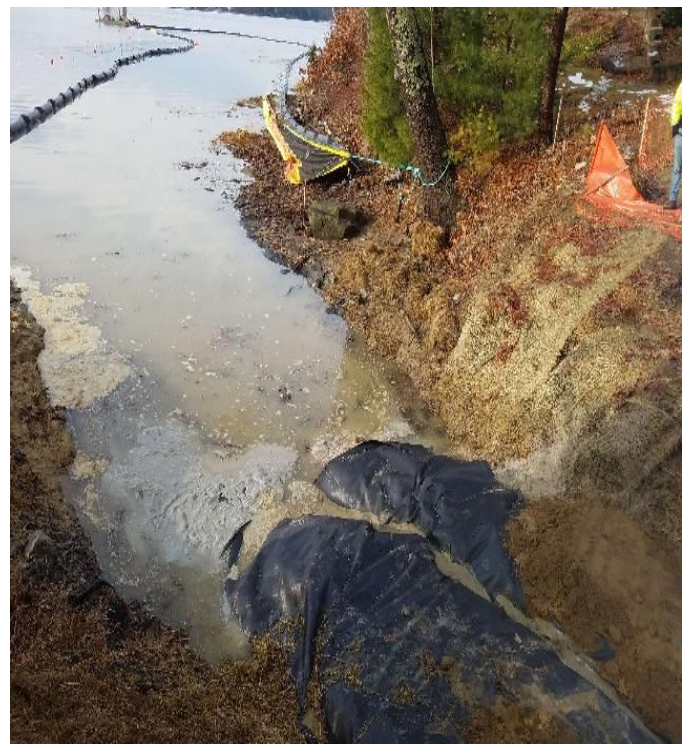


Fig 24: Sediment laden water discharging into the Bay during restoration Activities at Gundalow landing/east side of the Bay. Viewing west. (12-10-19).

PHOTOGRAPHS



Fig 25: Sediment laden water discharging into the bay at Gundalow Landing/east side of the Bay. Viewing west. (12-10-19).



Fig 26: Crew re-installed sediment controls at Gundalow landing/east Side of the Bay. Viewing east. (12-10-19).



Fig 27: Sediment plume contained by turbidity barrier. Aerial photograph. Bay

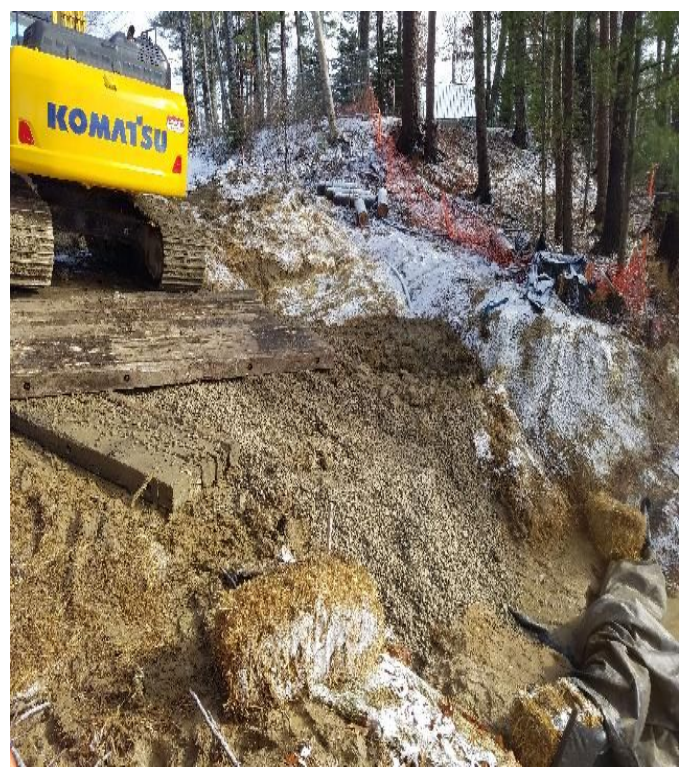


Fig 28: Crushed stone added to Gundalow landing/east side of the Bay

(12-10-19).

PHOTOGRAPHS



Fig 29: Crushed stone added to Gundalow landing/east side of the Bay. Viewing east. (12-11-19).

to temporarily stabilize ground surface. Viewing southeast. (12-11-19).



Fig 30: Crews installing silt curtain at Gundalow landing/east side of the Bay to contain sediment discharge. Viewing west. (12-11-19).



Fig 31: Filter sock installed at toe of slope at Getchell property/west side of the Bay. Viewing south. (12-11-19).



Fig 32: Filter sock installed at toe of slope at Getchell property/west side of the Bay. Viewing south. (12-11-19).

PROJECT TEAM

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