

CONSTRUCTION MONITORING REPORT

X_Weekly X_Storm Event __Incident X_Corrective Action

Date: 06/13/19 Time: 12:00pm Was this inspection triggered by a 0.25" storm event? X_Yes _No If yes, how did you determine whether a 0.25" storm event has occurred? ___Rain Gauge X Weather Station Storm event information is from Pease Air Force Base.

+Storm event information (approx.):

TYPE OF INSPECTION:

Start date: 06/10/19 Start date: Start date:

Amount (inches): 0.50in Amount (inches): Amount (inches):



Eversource Transmission Lines: F107

Madbury, Durham, Newgington, 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

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 heavy rain Monday night into Tuesday.

Weather conditions (time of inspection & future outlook): Forecast is mostly cloudy with rain and scattered showers Thursday and Sunday, temperatures in the 60's and 70's.

CONSTRUCTION SITE SEQUENCING AND DISTURBANCE

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

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

Operating within phasing limitations? X Yes

___No, if not, note area and explain:

Construction Monitoring Report #6

PROJECT TEAM

Eversource

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General Comments

- Crews did not work at UNH Friday June 7th due to the Special Olympics event at UNH.
- The Doucet crew spotted a painted turtle and a predated turtle nest while working off of Durham point Rd, across from driveway 283. See photos 17 & 18.

Work completed this week:

- Portsmouth
 - Boulos continues to do work at substation.
- Newington
 - MJ cleaned up the area around Str. F107-139.
- Durham
 - McCourt is assembling duct bank in A lot.
 - McCourt constructed a temporary road next to the field house.
 - McCourt assembled the trench box for jacking pit in A lot.
 - o McCourt began excavation of receiving pit next to the field house.
 - o Maine drilling and blasting continue to hammer ledge north and south of the steam pipe.
 - o GZA continues to manage soil stockpile area in A lot.

Erosion and sediment control items and observations:

- No major issues with BMPs installed at this time, all require no or minimal maintenance. A new water discharge BMP basin was constructed north of College Brook, see below.
- BMPs
 - McCourt installed a dewatering discharge BMP structure next to Colovos Rd, north of College Brook. I did not see a filter bag installed as had been discussed; this bag is on order. The BMP structure may need to be built larger when the crew begins to pump water into the filter bag encased within the BMP structure.
 - The contractors have been reminded that they need to have spare BMP supplies on hand in case of emergencies. These spare supplies should be kept dry at all times; this is a requirement of the BMPs, Eversource and DES.
 - Straw waddle installed around the lay down area off of Gosling Rd may need to be staked in more. The stakes are somewhat loose to the touch and in a serious rain event they could come loose and break apart. The waddles are a part of a combined berm installed next to/on the slope of the gravel lay down yard, see photos 4 & 5 below. Sam Eames has been notified of this corrective action.
 - It has been recommended that additional BMPs be installed in one area of the lay down yard, see photo 9.
 - McCourt installed a temporary water diversion system in A lot to direct the water over their trench, see photos 13 & 14.
 - There is an additional BMP training for the contractors on 06/13/19. This training will emphasize the expectations for BMP installation and maintenance.

Corrective Action

Due to the sediment discharge incident that accrued on 06/03/19, McCourt installed a dewatering apparatus
next to their trenching activities north of College Brook (06/11/19). The BMP that they installed consisted of
straw bales staked to the ground with filter fabric draped overtop of the bales creating a basin inside the
bales, see photos 13 & 14. The dewatering structure looks great except that there isn't a filter bag installed
yet, and the basin needs to be expanded in order to fit the filter bag inside once they start pumping water out
of the trench.



Fig 1: McCourt continues to trench and assemble duct bank in A lot. They laid filter fabric over the exposed trench to prevent water from running through. Viewing southeast. (6-10-19)



Fig 2: Water is still present in the trench near the rain garden, along Colovos Rd. Viewing south. (6-10-19).



Fig 3: Combined berm installed around lay down area off of Gosling Rd. Viewing south. (6-10-19).



Fig 4: Combined berm installed around lay down yard cont. Viewing south. (6-11-19).

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Fig 5: Combined berm installed around lay down yard cont. Viewing south. (6-11-19).



Fig 6: Combined berm installed around the lay down yard cont. Viewing northeast. (6-11-19).



Fig 7: Combined berm installed around the lay down yard cont. Viewing north. (6-11-19).



Fig 8: Combined berm installed around lay down yard, notice the water Runoff underneath the matting. Viewing north. (6-11-19).





Fig 9: Proposed area in lay down yard to add straw bales, this would help filter The runoff water that channels under the timber matting. Viewing north. (6-11-19). Fig 10: Straw bales installed correctly between Str. F107-139 and NW37. Viewing north. (6-11-19).



Fig 11: Silt fence installed between Str. F107-137 and wetland NM37, no maintenance needed. Viewing east. (6-11-19).



Fig 12: Foundation for Str. F107-136. A utility crew working along Woodbury Ave has excavated through the area that our crew finished and mulched with straw. There is now exposed soil in that area. (6-11-19).



Fig 13: The dewatering discharge BMP basin the McCourt installed for the trench dewatering activities next to Colovos Rd. Viewing south. (6-11-19).



Fig 14: The dewatering discharge basin next to Colovos Rd. The BMP structure will need to be expanded to encase the filter bag. Viewing south. (6-11-19).



Fig 15: McCourt began to pour concrete duct bank over installed pipe in A lot. Viewing south. (6-12-19)



Fig 16: McCourt's temporary water diversion plan; diverting water run off over their trench. Located in the low area in A lot. Viewing southeast. (6-12-19)



Fig 17: Predated turtle nest the Doucet crew reported off of Durham Point Rd. (6-12-19).



Fig 18: Painted turtle the Doucet crew reported near Durham Point Rd. (6-12-19).

CERTIFICATION:

OPERATING WITHIN LIMITS? N/A X_YES NO if not, please explain:
SURFACE WATER QUALITY
Storm water discharge from the site at the time of inspection? X YES NO _N/A Storm water discharge consistent with water quality standards? X YES NO _N/A Turbidity visually observed? X YES NO N/A If yes, check appropriate location(s) below, and describe discharge: NO NO
Location: Colovos Rd, UNH Pond location: N/A Adjacent surface water or wetland: College Brook
Description : There was turbid water seen discharging into the rain garden, north of College Brook. This water is not a result of McCourt's activities
TEMPORARY EROSION AND SEDIMENT CONTROLS (TESC)
Installed and functioning per the SWPPP? <u>X</u> 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? X_YESNO 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? X_YESNON/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: -None other than the above comments.
"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: MARCE_JACOBS Date: 6/13/19 MARCE_SIGNAL Date: 0 0017 0 0017