

Docket No. 272 – Development and Management Plan Inspection

The Connecticut Light and Power Company Certificate of Environmental Compatibility and Public Need for the construction of a new 345-kV electric transmission line and associated facilities between Scovill Rock Switching Station in Middletown and Norwalk Substation in Norwalk, Connecticut, including reconstruction of portions of existing 115-kV and 345-kV electric transmission line, the construction of Beseck Switching Station in Wallingford, East Devon Substation in Milford, (and Singer Substation in Bridgeport), modifications at Scovill Rock Switching Station and Norwalk Substation, and the reconfiguration of certain interconnections.

Underground Line Watercourse and Railroad Crossings

Date: March 6, 2008

Inspector: Gregory Sommer

Location: Crossings of Watercourses and Railroads in Segments 3, 4a and 4b

Rain Event: 0.75" of precipitation was reported since the previous inspection with 0.29" recorded on 3/1 and 0.22" recorded on 3/4 and 3/5 (Bridgeport, CT NOAA data).

Areas of Inspection	Observation	Recommended Action	Corrected Action
Access Roads and Adjacent Roadways Saugatuck River	On the east side of the Saugatuck River, the contractor for segment 4b is utilizing the partially restored staging area to facilitate vault installation. The stone construction entrance remains 3/6/08 The bituminous curb near the access driveway has been damaged by heavy truck traffic (since 1/24). 3/6/08	Coordinate final restoration efforts/ responsibilities with the contractor working on segment 4b. Restore site to pre-construction conditions (gravel parking area). Repair damaged curbing when work is complete. 3/6/08	Continue to monitor.
Housatonic River	HDD work is complete. Demobilized, temporary staging areas remain on both sides of the River, with fencing around the drilling pits. 3/6/08	Continue to finalize and restore the areas. See Erosion and Sediment Control section for more details. 3/6/08	Not Applicable (NA)
	On the east side of the Housatonic River conduit sections had been staged in the area between sta. #1015 to 1020, creating some ruts in the crushed stone backfill. These ruts appear to have been regraded. 3/6/08	None. 3/6/08	Ruts were re-graded.

Areas of Inspection	Observation	Recommended Action	Corrected Action
Metro-North R.R. - Milford	Staging area has been established on the south side of the Metro North R.R. off Naugatuck Ave. HDD equipment is being set-up and drilling will begin soon. A temporary access road has been cut to maintain access to the boat launch area. 3/6/08	Continue to monitor for tracking. See Erosion and Sediment Control section for more details. 3/6/08	NA
Vault Openings and Trench Construction Saugatuck River Housatonic River Metro North R.R. - Milford	HDD work on the Saugatuck River is complete. Drilling pits remain open. 3/6/08 HDD work at the Housatonic River is complete. The drill pits have been partially backfilled, leaving only the conduits exposed. 3/6/08 HDD has not begun yet, but equipment is being set-up. 3/6/08	Monitor and maintain sediment and erosion controls. 3/6/08 Monitor and maintain sediment and erosion controls. 3/6/08 Monitor and maintain sediment and erosion controls. 3/6/08	NA NA NA
Erosion and Sediment Controls Saugatuck River	Any exposed soils have potential for airborne dust migration. Contractors are aware of the potential. 3/6/08 On the west side of the Saugatuck River, hay bales and mulch remain in place around the drill pit. Hay bales remain along Lincoln St. 3/6/08 The contractor for segment 4b is now utilizing the partially restored staging area on the east side of the Saugatuck River. 3/6/08 Two minor frac outs remain observed (on	Prevent dust migration by implementing the dust control measures. 3/6/08 Continue to monitor and maintain the controls to ensure they adequately contain area until drilling pit is backfilled. Continue to sweep the roadway as necessary. 3/6/08 Coordinate final restoration efforts/ responsibilities with the contractor working on segment 4b. Restore site to pre-construction conditions (gravel parking area). Backfill and stabilize the drilling pit when feasible. 3/6/08 Properly contain and remove the material.	NA at this time. NA at this time. Continue to monitor. Needs final restoration when work is complete. Needs attention.

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<p>Housatonic River</p>	<p>land) between the access drive and drilling pit on the east side of the Saugatuck River. Fencing remains around this area. Both areas were full of water at the time of the inspection. 2/14-3/6/08</p>	<p>Restore the area to pre-construction conditions. 2/14-3/6/08</p>	<p>Needs to be monitored and needs final restoration when work is complete.</p>
	<p>The drill pits have been partially backfilled on the west side of the Housatonic River, leaving only the conduits exposed. Haybales have been relocated around the remaining drilling pit. A minor amount of sediment was observed over the paved surface of the parking lot. The frac tank has been removed. 3/6/08</p>	<p>Continue to monitor the area and maintain controls to ensure they adequately contain the area. Continue to clean any areas where incidental spills may have occurred due to construction activities and provide final restoration to the area when tie-in work is complete. 3/6/08</p>	
	<p>On the east side of the river, the dirt berm around the drilling pit remains mulched, and hay bales were in place between the berm and the river. These sedimentation control measures appeared to be functioning properly. 3/6/08</p>	<p>Continue to monitor the area. Replace/secure controls as needed to provide complete coverage and containment of the area. Continue to attend to spilled drilling slurry/mud and provide final restoration to the area. 3/6/08</p>	<p>NA at this time</p>
<p>Metro North R.R. - Milford</p>	<p>On the east side of the Housatonic River, the dirt berm located adjacent to a resource area on the western side of the staging area remains mulched. However, in the same general area, a small channel has eroded. Haybales were in place and contained most of the sediment but a minor amount migrated beyond the barrier and towards the resource area. 3/6/08</p>	<p>Reinforce controls if necessary. Permanently stabilize the area as soon as feasible. Remove accumulated sediment from behind the haybale barrier, before it enters the adjacent resource area. 3/6/08</p>	<p>Needs attention.</p>
	<p>Haybales and a filter</p>	<p>Monitor and maintain</p>	<p>Good controls were in</p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
Milford	boom are in place around the staging area on the down gradient side of the staging yard. Silt fence is also in place around the temporary access road, which has been cut for access to the boat launch. 3/6/08	sediment and erosion controls. Adjust controls as field conditions change. 3/6/08	place prior to the start of work.
Inland Wetland and Watercourse encroachment and mitigation	<p>The HDD of the Saugatuck River and associated wetlands in Westport is complete. Final restoration and tie-in efforts continue. 3/6/08</p> <p>The HDD of the Housatonic River and associated wetlands in Stratford and Milford is complete. Final restoration and tie-in efforts continue. 3/6/08</p> <p>On the east side of the Housatonic River, the berm along the west side of the staging area has been mulched but there are no other controls between it and the adjacent resource area. Sediment migration was noted beyond an existing haybale barrier in this general area. 3/6/08</p>	<p>None. 3/6/08</p> <p>The drill work was completed well with the approved monitoring plan provided in the D&M plan. 3/6/08</p> <p>Install erosion control measures between the dirt berm and the adjacent resource area if needed. Reinforce the controls in the area of sedimentation. See Erosion and Sedimentation Controls section for more details. 3/6/08</p>	<p>NA</p> <p>NA</p> <p>Additional controls appear to be needed.</p>
Staging, Storage, and Parking Areas Saugatuck River	A staging area remains on either side of the Saugatuck River. Minor construction related debris (wooden stakes, metal banding, conduit sections, toed-in portions of silt fence, etc.), remain near the perimeter of the area. The contractor for segment 4b is utilizing both areas to facilitate vault installation and tie-in work. 3/6/08	Coordinate final restoration efforts/ responsibilities with the contractor working on segment 4b. Restore site to pre-construction conditions (gravel parking area). Final restoration will mostly likely be on hold until after final connections are tied-in. 3/6/08	Needs attention.

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Housatonic River	<p>The shoulder area along Imperial Ave. on the east side of the Saugatuck River was previously rutted due to vehicle traffic accessing the site directly from Imperial Ave. The contractor for segment 4b is utilizing this area and is now using the existing construction entrance to access the site. 3/6/08</p>	<p>Continue to utilize the existing construction entrance when accessing the site. Coordinate efforts with the contractor for segment 4b. 3/6/08</p>	<p>NA</p>
	<p>The staging area within a paved parking lot behind a plaza on the west side of the Housatonic River has been demobilized and reduced in size. Perimeter fencing has been relocated to enclose this area. Drill pits on the west side have been partially backfilled with only the conduits left exposed. A drill pit/work area is also located to the east of the River within a paved access. 3/6/08</p>	<p>Contain all material within the established limits of work zone and clean and restore the areas appropriately. See erosion control and spills/ material storage sections for more details. 3/6/08</p>	<p>Continue to monitor.</p>
Metro North R.R. - Milford	<p>Staging area has been established on the south side of the Metro North R.R. off of Naugatuck Ave. HDD equipment is being set-up. 3/6/08</p>	<p>Contain all material within the established limits of work zone. See Erosion Control and Spills/ Material Storage sections for more details. 3/6/08</p>	<p>NA</p>
Soils	<p>Soils are exposed as part of the drill set-up and excavations at each HDD. Drilling slurry (bentonite clay) was used in the process but drilling is inactive until the Metro North drill begins. 3/6/08</p>	<p>Monitor for dust as previously indicated. 3/6/08</p>	<p>NA</p>
	<p>Drilling pits remain open on both sides of the Saugatuck River. 3/6/08</p>	<p>Backfill the drilling pit as soon as feasible and stabilize the surface. 3/6/08</p>	<p>Continue to monitor, needs attention when feasible.</p>

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	<p>On the west side of the Saugatuck River, exposed soils in the park adjacent to the river have been re-graded, seeded, and mulched with hay. 3/6/08</p> <p>Drilling pits remain on both sides of the Housatonic River, but the western ones have been mainly backfilled, leaving the conduits exposed. 3/6/08</p>	<p>Continue to monitor and provide final restoration measures at the growing season if needed. See Erosion and Sediment Controls section for more details. 3/6/08</p> <p>Continue to monitor the area. Pits had been adequately sized and monitored throughout the work. 3/6/08</p>	<p>NA at this time.</p> <p>Drill pits had been successfully monitored throughout the work. Continue restoration.</p>
<p>State species of concern, threatened and endangered species.</p>	<p>According to the D&M plan, state-listed species are not located in this work area 3/6/08</p>	<p>None. 3/6/08</p>	<p>NA</p>
<p>Vegetative clearing (including trees to save or danger trees noted) or stabilization</p>	<p>Although not marked on the D&M, a row of hedges/shrubs was removed (9/18/07) from the west side of the river near sta. #235+75. The contractor states that the property owner removed the shrubs in preparation for the HDD work. 12/5/07-3/6/08</p> <p>Shrubs had previously been removed from the west side of the river near sta. #234+50 as per the D&M Plan. 3/6/08</p>	<p>If shrubs were removed by the property owner prior to HDD work, then discuss and reach an agreement with the property owner regarding the final restoration measures. 12/5/07-3/6/08</p> <p>When work is completed, restore the area as indicated in the D&M plan. 3/6/08</p>	<p>Contractor states the property owner removed the shrubs. Needs evaluation during restoration.</p> <p>NA at this time.</p>
<p>Dewatering</p>	<p>Dewatering activities were observed on the west side of the Housatonic River to facilitate vault tie-in work. 3/6/08</p>	<p>Continue to ensure that material is contained appropriately and treated according to the ground-water handling plan as referenced in the D&M. 3/6/08</p>	<p>NA</p>
<p>Blasting</p>	<p>No blasting has been proposed. 3/6/08</p>	<p>None 3/6/08</p>	<p>NA</p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
<p>Spills and Material Storage</p> <p>Saugatuck River</p> <p>Housatonic River</p>	<p>Reserve spill cleanup materials/kits were observed in the staging area. 3/6/08</p> <p>Small frac-outs remain near the drilling pit, on the east side of the Saugatuck River. The contractor for segment 4b is now using this staging area. 3/6/08</p> <p>The large drill pit on the west side of the Housatonic River has been partially backfilled. 3/6/08</p> <p>On the west side of the Housatonic River the absorbent material that was previously spread over several areas of spilled material has been swept up. The leaking generator trailer is no longer on site. 3/6/08</p> <p>On the west side of the Housatonic River a minor amount of remnant mud/slurry was observed over the paved surface of the parking lot in various areas throughout the staging area. 2/21-3/6/08</p>	<p>Continue to bring spill kits to active work sites. 3/6/08</p> <p>Coordinate final restoration efforts/ responsibilities with the contractor working on segment 4b. Restore site to pre-construction conditions (gravel parking area). See Erosion and Sediment Controls section for more details. 3/6/08</p> <p>Continue to monitor the area and maintain controls to ensure they adequately contain the area. Backfill and permanently restore the area when feasible. 3/6/08</p> <p>Continue to properly contain, clean, and dispose of the spilled substance. Use caution to prevent future spills and/or provide containment for leaking equipment. 3/6/08</p> <p>Continue to clean any areas where incidental spills may have occurred due to construction activities. 3/6/08</p>	<p>NA</p> <p>Old frac-out areas need attention when feasible</p> <p>Pits were successfully sized and monitored during the work.</p> <p>Spilled material and leaking equipment appeared to be appropriately removed.</p> <p>Needs attention during final clean-up.</p>
<p>Additional Observations</p>	<p>None. 3/6/08</p>	<p>None 3/6/08</p>	<p>NA</p>

**Next likely scheduled
inspection:**

Thursday, March 13, 2008

I have personally examined and am familiar with the information submitted in this document and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statements made in this document or its attachments may be punishable as a criminal offense in accordance with Section 22a-6 under Section 53a-157 of the Connecticut General Statutes.

Field Inspector: Gregory Sommer, BSC Group

Reviewer: Diana Walden, BSC Group



A small channel has eroded near the west side of the staging area on the east side of the Housatonic River. Haybales are in place and are containing most of the sediment, but a minor amount has migrated beyond the haybale barrier.



Staging area on the west side of the Housatonic River remains active as crews are working to tie-in the conduits to the existing vault. A minor amount of remnant sediment has accumulated and been tracked over the paved area.



A staging area has been set-up on the south side of the Metro North R.R. in Milford. The staging area has been surrounded by haybales and a filter boom. A temporary access drive has been cut to provide access to the boat launch area. Drilling equipment is being set-up including a bentonite reclamation machine under the I-95 overpass.

