

**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:** December 21, 2007

**Inspector:** Gregory Sommer

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

**Rain Event:** 1.24" of precipitation was reported since the previous inspection, with 0.74" of the total recorded on 12/13 and 0.37" on 12/16 (Bridgeport, CT NOAA data).

Areas of Inspection	Observation	Recommended Action	Corrected Action
<p><b>Access Roads and Adjacent Roadways Saugatuck River</b></p>	<p><b>On the east side of the Saugatuck River, the stone construction entrance to the adjacent paved parking lot off Imperial Ave. remains in good shape. Sediment tracking was not an issue. 12/21/07</b></p>	<p><b>Continue to maintain construction entrance to reduce sediment migration from the work area. Continue to sweep the parking lot area as necessary. 12/21/07</b></p>	<p><b>Continue to monitor.</b></p>
<p><b>Ash Creek</b></p>	<p><b>On the west side, the driveway to the church parking lot has been temporarily opened during the break. Some sediment was observed on the surface of the lot. 12/21/07</b></p> <p><b>Temporary work zone/ lane closures along Old Post Road were removed as crews prepared for a 2-week holiday break in activities. A minor amount of sediment was noted along the curb in some spots. 12/21/07</b></p>	<p><b>Sweep and attend to the sediment to avoid tracking out of the work area. 12/21/07</b></p> <p><b>When work returns, continue to monitor for tracking or slurry residue. See erosion control section for more details. While drilling mud spill here during active work, the contractor states that crews clean it up regularly. 12/21/07</b></p>	<p><b>Needs regular attention</b></p> <p><b>Lane closures were removed for the break.</b></p>
<p><b>Vault Openings and Trench Construction Saugatuck River</b></p>	<p><b>Both the east and west sides of the Saugatuck River HDD will remain</b></p>	<p><b>Monitor and maintain sediment and erosion controls. 12/21/07</b></p>	<p><b>Not Applicable (NA)</b></p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
<p><b>Ash Creek</b></p>	<p><b>inactive for two weeks during the holiday break. The drill pits, equipment and materials remain in place. Booms remain in place within the river to contain previous frac-out material. 12/21/07</b></p> <p><b>Activities on either side of Ash Creek have temporarily ceased during the break. Conduit had been pulled through the first of the two borings. Drill pits were backfilled and paved. 12/21/07</b></p>	<p><b>When work resumes, monitor carefully for drilling fluid releases and continue to address as specified in the monitoring plan provided in the D&amp;M. Contractors have been monitoring pressure and making regular visual inspections of the creek. 12/21/07</b></p>	<p><b>NA</b></p>
<p><b>Housatonic River</b></p>	<p><b>The drill pits, equipment and material remain on either side of the Housatonic River. Work is also on hold here during the break. 12/21/07</b></p>	<p><b>When work resumes, monitor carefully for drilling fluid releases and continue to address as specified in the monitoring plan provided in the D&amp;M. Contractors have been monitoring pressure and making regular visual inspections of the river. 12/21/07</b></p>	<p><b>NA</b></p>
<p><b>Erosion and Sediment Controls Saugatuck River</b></p>	<p><b>Any exposed soils have potential for airborne dust migration. Contractors are aware of the potential. On the east side of the Saugatuck River, crushed stone remains throughout the staging area to reduce tracking and dust. 12/21/07</b></p> <p><b>Stone and geo-textile fabric was installed in the park on the west side of the Saugatuck River near sta. #236 where vac trucks and other vehicles have access. 12/21/07</b></p>	<p><b>Prevent dust migration by implementing the dust control measures. 12/21/07</b></p> <p><b>Ensure that catch basins located down gradient of areas where vehicles are exiting the work zone have gutter buddy/silt sack (or similar) in place. Sweep roadway as necessary. 11/21-12/21/07</b></p>	<p><b>NA at this time.</b></p> <p><b>Stone and geo-textile fabric were installed in the area.</b></p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
Ash Creek	Silt fence, haybales and mulch remain in place around the drill pits on the west side of the Saugatuck River. 12/21/07	Continue to monitor and maintain the controls to ensure they adequately contain the area. 12/21/07	Continue to monitor
	On the east side of the Saugatuck River, silt fence around the drill pit needs repair again. Construction fence was installed. 12/21/07	Continue to monitor and maintain the controls. Identify areas of potential high flow or run-off and reinforce controls when necessary. 12/21/07	Needs attention again.
	Catch basins near Ash Creek appear to be free of construction related sediment and debris as work is on hold here. 12/21/07	Continue to monitor and maintain sediment control measures. Contractors state the area is cleaned regularly as spills are common during active work. 12/21/07	Catch basins were free of debris.
Housatonic River	Perimeter controls are in place around the work area on the west side of the Housatonic River and the dirt berm is in place around the drilling pit. 12/21/07	Continue to monitor the area and maintain the controls to ensure they adequately contain the area. Ensure adequate capacity for drilling materials as well as stormwater run-off. 12/21/07	Continue to monitor.
	The haybales have fallen into the hole left by the previous frac-out within the pavement on the east side of the Housatonic River. A new frac out was also located in the paved area here. 12/21/07	Continue to monitor the area. Replace/secure controls as a precaution. 12/21/07	More controls could be used.
	A line of haybales remain in place along the eastern bank of the river. An area of run-off/slurry remains adjacent to the drill shaft. 12/21/07	Continue to maintain controls to provide complete coverage and containment of the area. While the slurry is currently contained, it should be cleaned up to avoid unnecessary impacts. 12/21/07	Needs attention when feasible.
	The newly graded dirt berm located adjacent to	Add controls if necessary. Permanently stabilize area	The area was mulched but controls may still

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	<p>a resource area on the western side of the staging area (on the east side of the Housatonic River) has been mulched. However, there are no other controls between the berm and the resource area. 12/21/07</p>	<p>when feasible. 12/21/07</p>	<p>be needed.</p>
<p><b>Inland Wetland and Watercourse encroachment and mitigation</b></p>	<p>The HDD of the Saugatuck River and associated wetlands in Westport will continue in two weeks. Booms remain in the river to contain materials from previous frac-outs. 12/21/07</p>	<p>Continue to implement the approved monitoring plan for the crossing of the Saugatuck River provided in the D&amp;M plan. 12/21/07</p>	<p>NA</p>
	<p>The HDD of Ash Creek and associated wetlands in Fairfield and Bridgeport will continue in two weeks. 12/21/07</p>	<p>Continue to implement the approved monitoring plan for the crossing of Ash Creek provided in the D&amp;M plan 12/21/07</p>	<p>NA</p>
	<p>The HDD of the Housatonic River and associated wetlands in Stratford and Milford will continue in two weeks. 12/21/07</p>	<p>Continue to implement the approved monitoring plan for the crossing of the Housatonic provided in the D&amp;M plan. 12/21/07</p>	<p>NA</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 an adjacent wetland resource area. 12/21/07</p>	<p>Install erosion control measures between the dirt berm and the adjacent resource area if needed. See erosion controls section for more details. 12/21/07</p>	<p>The berm was mulched.</p>
<p><b>Staging, Storage, and Parking Areas Saugatuck River</b></p>	<p>A staging area remains on either side of the Saugatuck River to accommodate the HDD activities. On the east side of the river, the staging area is within a gravel parking area. On the west side, staging is within a</p>	<p>See erosion control section for more details. Contain all material within the established limits of both yards. 12/21/07</p>	<p>NA at this time.</p>



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	<p><b>On the west side of the Saugatuck River, stone and geotextile fabric were placed on the exposed soil in the park adjacent to the river. 12/21/07</b></p> <p><b>The drilling pits have been backfilled and paved on both sides of Ash Creek during the break. 12/21/07</b></p> <p><b>Drilling pits are excavated on both sides of the Housatonic River. Drilling pits on the west side of the Housatonic River have a small dirt/sand berm around portions of the perimeter. The drill pit on the east side was left with additional capacity. However, there were also areas of run-off and slurry near the drill shaft. While the entire area is contained with controls, there is still a potential for run-off. 12/21/07</b></p>	<p><b>Continue to provide soil stabilization. Restore the area to original conditions when access needs are complete. 12/21/07</b></p> <p><b>When work resumes, monitor the amount of slurry in relation to the size of the pit to ensure adequate storage capacity. Also consider impacts from future storm events and run-off. 12/21/07</b></p> <p><b>Ensuring adequate storage capacity for drilling muds is essential. Impacts from storm events and related run-off must also be considered in terms of a contingency plan. A large amount of stormwater could result in a discharge from the pit or where slurry had accumulated. The contractor states that they will reduce the level of mud in the pits at the end of each workday. 12/21/07</b></p>	<p><b>Stone and fabric were placed here.</b></p> <p>NA</p> <p><b>Needs evaluation.</b></p>
<p><b>State species of concern, threatened and endangered species.</b></p>	<p><b>According to the D&amp;M plan, state-listed species are not located in this work area</b></p>	<p>None.</p>	<p>NA</p>
<p><b>Vegetative clearing (including trees to save or danger trees noted) or stabilization</b></p>	<p><b>Although not marked on the D&amp;M, a row of hedges/shrubs was removed (9/18) 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. 12/5-12/21/07</b></p>	<p><b>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. 12/5-12/21/07</b></p>	<p><b>Contractor states the property owner removed the shrubs. Needs evaluation during restoration.</b></p>

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	Shrubs were removed from the west side of the river near sta. #234+50 as per the D&M Plan 12/21/07	When work is completed, restore the area as indicated in the D&M plan. 12/21/07	NA at this time.
Dewatering	Dewatering activities were not observed at this time. However vac trucks were used to attend to some frac-outs. 12/21/07	Continue to ensure that material is contained appropriately and treated according to the groundwater handling plan as referenced in the D&M. 12/21/07	NA
Blasting	No blasting has been proposed. 12/21/07	None 12/21/07	NA
Spills and Material Storage	Reserve spill cleanup materials/kits were observed in the staging area. 12/21/07	Continue to bring spill kits to active work sites. 12/21/07	NA
Saugatuck River	Stone remains spread throughout the yard. 12/21/07	All stone and remaining slurry material should be removed during restoration 12/21/07	NA at this time.
	Materials in this area were stored appropriately and placed under taps during the break in activities. 12/21/07	Continue to monitor. 12/21/07	NA at this time
Ash Creek	The slurry material regularly falls/drips on the pavement on the east side of Ash Creek adjacent to the drilling pit when active work occurs. 12/21/07	The catch basin remains protected and the contractor states they are providing regular attention here to clean the area. 12/21/07	NA at this time.
Housatonic River	The large drill pit on the west side of the Housatonic River is intended to facilitate drilling activities and project sequencing. The contractor indicated that some slurry must remain in the pit overnight during cold weather to prevent the equipment from freezing. 12/12-	Continue to monitor the amount of slurry in relation to the size of the pit to ensure adequate storage capacity. Also consider impacts from future storm events and run-off. Contractor states that the level of slurry in the pit will be lowered at the end of each workday to provide additional capacity 12/12-	Needs regular evaluation.

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	<p><b>12/21/07</b></p> <p><b>A new frac-out was observed on the east side of the Housatonic River within the paved area. There was also an area of run-off and slurry by the drill shaft. 12/21/07</b></p>	<p><b>12/21/07</b></p> <p><b>While the areas are contained within the staging area, slurry should be cleaned up to avoid unanticipated impacts. 12/21/07</b></p>	<p><b>Needs regular attention.</b></p>
<p><b>Additional Observations</b></p>	<p><b>On the east side of the Housatonic River, piles of asphalt debris were observed at the parking lot under I-95 (12/12). This appears to be due to other projects (not M/N related). 12/21/07</b></p>	<p><b>None. 12/21/07</b></p>	<p><b>NA</b></p>

**Next likely scheduled inspection:**

**Monday, December 31, 2007**

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



**In preparation for a two week holiday break, the contractors had removed the temporary lane closures on either side of Ash Creek. The drill pit had also been backfilled and paved for the break.**



**When work resumes after the break, the silt fence needs repair around the drill pit on the east side of the Saugatuck River. The pit has some additional capacity for storm runoff.**



**Materials at the staging area on the east side of the Saugatuck River have been covered in tarps and stored during the several week break in activities.**



**On the west side of the Saugatuck River, some sediment remains on the pavement of the driveway and church parking lot adjacent to the staging area. This area was temporarily opened to traffic during the break in work.**



**Booms remain in the Saugatuck River as a precautionary measure to contain materials from previous frac-outs.**



**On the west side of the Housatonic River, the drill pit was left inactive during the holiday break. Ensure adequate capacity here, including enough to accommodate stormwater run-off**



**On the east side of the Housatonic River, the dirt berm adjacent to the resource area on the western side of the staging yard was mulched with hay. Controls may still be needed between the berm and the wetland.**



**The drill pit on the east side of the Housatonic River was left with additional capacity during the break in activity.**



**A haybale barrier remains in place along the edge of the staging area. Haybales have fallen into the hole created during a previous frac-out in this area.**



**An area of runoff/drilling mud remains adjacent to the drill shaft on the east side of the Housatonic River. It is currently contained but should be cleaned up to remove a potential source of sediment and to avoid unnecessary impacts.**