

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: February 14, 2008

Inspector: Gregory Sommer

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

Rain Event: A trace of precipitation was reported on 2/13 which was the only precipitation recorded since the previous week's inspection. (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 stone construction entrance to the adjacent paved parking lot off Imperial Ave. remains in good shape, however, some ruts were noted along the shoulder of the roadway. 2/7/08 The bituminous curb near the access driveway has been damaged by heavy truck traffic. 1/24-2/14/08	Continue to sweep the parking lot area as necessary. Restore rutted area and temporarily stabilize. Repair damaged curbing when work is complete. 2/14/08	Continue to monitor.
Ash Creek	A temporary work zone has been set-up along the south side of Post Road/ Fairfield Avenue however, the bentonite reclamation machine and drilling rig were removed from within the protected work zone and work is demobilizing. 2/14/08	Continue to sweep up remaining debris and dust. See Erosion and Sediment Controls section for more details. 2/14/08	Not Applicable (NA)
Housatonic River	A temporary staging area is in place on the west side of the Housatonic River in a parking lot behind a shopping plaza. A bentonite reclamation machine and drilling rig	Continue to monitor for tracking or slurry residue. See Erosion and Sediment Control section for more details. 2/7/08	NA

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	were on-site. A work area is also in place on the eastern bank. 2/14/08		
<p>Vault Openings and Trench Construction Saugatuck River</p> <p>Ash Creek</p> <p>Housatonic River</p>	<p>HDD work on the Saugatuck River is almost complete. River clean-up is complete and the booms have been removed. 2/14/08</p> <p>Drilling work has been completed at Ash Creek. Crews were fusing final sections of conduit and were preparing to backfill the drilling pits. 2/14/08</p> <p>Drilling continues at the Housatonic River. Drilling rigs were set-up on the west side of the river. Divers continue to monitor the river. 2/14/08</p>	<p>Monitor and maintain sediment and erosion controls. 2/14/08</p> <p>Monitor and maintain sediment and erosion controls. 2/14/08</p> <p>Continue to monitor carefully for drilling fluid releases and continue to address as specified in the monitoring plan provided in the D&M. Contractors have been monitoring pressure and making regular visual inspections of the river. 2/14/08</p>	<p>NA</p> <p>NA</p> <p>NA</p>
<p>Erosion and Sediment Controls</p> <p>Saugatuck River</p>	<p>Any exposed soils have potential for airborne dust migration. Contractors are aware of the potential. 2/14/08</p> <p>On the west side of the Saugatuck River, hay bales and mulch remain in place around the drill pit. Hay bales have been placed along Lincoln St. in place of the deteriorated silt fence. 2/14/08</p> <p>Stone and geo-textile fabric has been removed from the park on the west side of the Saugatuck River near sta. #236 where vac trucks and other vehicles had been</p>	<p>Prevent dust migration by implementing the dust control measures. 2/14/08</p> <p>Continue to monitor and maintain the controls to ensure they adequately contain the area until drilling pit is backfilled. Continue to sweep the roadway as necessary. 2/14/08</p> <p>Re-grade the rutted areas and provide final restoration in the growing season. Temporarily stabilize areas of exposed soil with hay mulch. Remove remaining cable</p>	<p>NA at this time.</p> <p>Hay bales have been placed along Lincoln St.</p> <p>Needs attention.</p>

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Ash Creek	<p>accessing. Large boulders have been replaced to limit access to this area. Some minor ruts and exposed soil remain. Black cable from the work remains in this area. 2/14/08</p>	<p>from HDD operation. 2/14/08</p>	
	<p>The staging area at the east side of the Saugatuck River, has been partially restored. Hay mulch remains over the areas of exposed soils but ruts were noted in the shoulder of Imperial Ave. 2/7-2/14/08</p>	<p>Continue to monitor and maintain the controls. Backfill and stabilize the drilling pit when feasible. Continue to provide restoration to pre-construction conditions (gravel parking area). Also, see both the Spills section and Storage section for additional information. 2/14/08</p>	<p>Restoration will need to continue.</p>
	<p>Two minor frac outs were observed (on 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. 2/14/08</p>	<p>Properly contain and remove the material. Restore the area to pre-construction conditions. 1/24-2/14/08</p>	<p>Needs attention.</p>
	<p>Work has neared completion at Ash Creek and the haybales around the catch basins have been removed. Catch basins did not appear to be impacted by HDD work. Remnant amounts of mud and slurry material were observed over the surface of paved areas and along the curb line. 2/14/08</p>	<p>Thoroughly sweep roadway within the staging area to remove and sediment and debris prior to removing the temporary work zone. 2/14/08</p>	<p>Needs attention.</p>
Housatonic River	<p>Perimeter controls are in place around the work area on the west side of the Housatonic River. A dirt berm remains in place around the drilling pit. A minor amount of</p>	<p>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.</p>	<p>Needs regular attention.</p>

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	<p>mud/slurry was observed over portions of the paved parking lot throughout the staging area. 2/14/08</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. 2/14/08</p> <p>A line of haybales remains in place along the eastern bank of the river. The staging area was in good condition. 2/14/08</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, there are no other controls between the berm and the resource area. 12/21-2/14/08</p>	<p>Continue to clean any areas where incidental spills may have occurred due to construction activities. 1/24-2/14/08</p> <p>Continue to monitor the area. Replace/secure controls as needed. 2/14/08</p> <p>Continue to maintain controls to provide complete coverage and containment of the area. 2/14/08</p> <p>Add controls if necessary. Permanently stabilize area when feasible. 12/21-2/14/08</p>	<p>NA</p> <p>Continue to monitor.</p> <p>Continue to monitor.</p>
<p>Inland Wetland and Watercourse encroachment and mitigation</p>	<p>The HDD of the Saugatuck River and associated wetlands in Westport is complete. Clean-up of the river is also complete and the booms have been removed from the river. 2/14/08</p> <p>The HDD of Ash Creek and associated wetlands in Fairfield and Bridgeport is nearing completion. 2/14/08</p> <p>The HDD of the Housatonic River and</p>	<p>None. 2/14/08</p> <p>Continue to implement the approved monitoring plan for the crossing of Ash Creek provided in the D&M plan 2/14/08</p> <p>Continue to implement the approved monitoring plan</p>	<p>Clean up in the river is complete and booms have been removed.</p> <p>NA</p> <p>NA</p>

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	<p>associated wetlands in Stratford and Milford continues. 2/14/08</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. 2/14/08</p>	<p>for the crossing of the Housatonic provided in the D&M plan. 2/14/08</p> <p>Install erosion control measures between the dirt berm and the adjacent resource area if needed. See Erosion and Sedimentation Controls section for more details. 2/14/08</p>	<p>The berm was mulched, but additional controls may still be needed.</p>
<p>Staging, Storage, and Parking Areas Saugatuck River</p>	<p>A staging area remains on either side of the Saugatuck River. On the east side of the river, much of the equipment has been removed and the area has been partially restored. Minor construction related debris (wooden stakes, metal banding, conduit sections, toed-in portions of silt fence, etc.) remains near the perimeter of the area. On the west side, the staging area is in a church parking lot. 2/14/08</p> <p>Chain link fencing that had previously prevented vehicles from accessing the staging area directly from Imperial Ave. had been repositioned and large ruts have formed in the shoulder. 2/14/08</p>	<p>See Erosion and Sedimentation Controls section for more details. Continue to restore staging areas and removing any remaining construction debris. Final restoration will mostly likely be on hold until after the vaults are installed and final connections are made. 1/31-2/14/08</p> <p>Re-grade rutted area and stabilize exposed soils. Coordinate efforts with contractor installing vaults and making the final connections. Temporary barriers may be recommended in this area to reduce vehicle traffic and tracking through this area. 2/14/08</p>	<p>NA at this time but needs final restoration.</p> <p>Needs attention.</p>
<p>Ash Creek</p>	<p>Temporary work zones remain along Post Road/Fairfield Ave on both sides of Ash Creek. 2/14/08</p>	<p>Contain all material within the established limits of work zone. 2/14/08</p>	<p>NA at this time.</p>
<p>Housatonic River</p>	<p>A staging area remains within a paved parking</p>	<p>Contain all material within the established limits of</p>	<p>Continue to monitor.</p>

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	lot behind a plaza on the west side of the Housatonic River for the HDD activities. A drill pit/work area is also located to the east of the River within a paved access. 2/14/08	work zone. Further containment and planning may be necessary here. See erosion control and spills/material storage sections for more details. 2/14/08	
Soils	<p>Soils are exposed as part of the drill set-up and excavations at each HDD. Drilling slurry (bentonite clay) is used in the process. 2/14/08</p> <p>Drilling pits remain open on both sides of the Saugatuck River. 2/14/08</p> <p>On the west side of the Saugatuck River, stone and geotextile fabric have been removed from the park adjacent to the river. Minor ruts remained in the area and soil remains exposed. 2/14/08</p> <p>Drilling is complete at Ash Creek. The drilling pit was adequately sized and crews were preparing to backfill the drilling pits on both sides of the creek. 2/14/08</p> <p>Drilling pits are excavated on both sides of the Housatonic River. The drilling pits on the west side have a small dirt/sand berm around portions of the perimeter. Both drill pits appear adequately sized. 2/14/08</p>	<p>Monitor for dust as previously indicated. See the Spills and Material Storage section. 2/14/08</p> <p>Backfill the drilling pit as soon as feasible and stabilize the surface. 2/14/08</p> <p>Re-grade ruts and temporarily stabilize exposed soil with mulch until final restoration can occur. See Erosion and Sediment Controls section for more details. 2/14/08</p> <p>Continue to monitor the amount of slurry/ runoff in drilling pit. Backfill the drilling pit as soon after the conduit pull as feasible and stabilize the surface. 2/14/08</p> <p>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. 2/14/08</p>	<p>NA</p> <p>Continue to monitor, needs attention when feasible.</p> <p>Needs attention.</p> <p>NA</p> <p>NA</p>
State species of concern, threatened and endangered species.	According to the D&M plan, state-listed species are not located in this work area.	None. 2/14/08	NA

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	2/14/08		
Vegetative clearing (including trees to save or danger trees noted) or stabilization	<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. 12/5/07-2/14/08</p> <p>Shrubs had previously been removed from the west side of the river near sta. #234+50 as per the D&M Plan. 2/14/08</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. 12/5/07-2/14/08</p> <p>When work is completed, restore the area as indicated in the D&M plan. 2/14/08</p>	<p>Contractor states the property owner removed the shrubs. Needs evaluation during restoration.</p> <p>NA at this time.</p>
Dewatering	Dewatering activities were not observed at the time of the inspection. 2/14/08	Continue to ensure that material is contained appropriately and treated according to the ground-water handling plan as referenced in the D&M. 2/14/08	NA
Blasting	No blasting has been proposed. 2/14/08	None 2/14/08	NA
Spills and Material Storage Saugatuck River Housatonic River	<p>Reserve spill cleanup materials/kits were observed in the staging area. 2/14/08</p> <p>Spilled gel-max remains in the yard on the east side of the Saugatuck River. The area has been covered with mulch but the (non-toxic) material is evident from the slick surface beneath the hay. Small, new frac-outs were also observed near the drilling pit (since 1/24). 2/14/08</p> <p>The large drill pit on the west side of the Housatonic River is intended to facilitate</p>	<p>Continue to bring spill kits to active work sites. 2/14/08</p> <p>Properly contain and remove the material. Restore the area to pre-construction conditions. 2/14/08</p> <p>Continue to monitor the amount of slurry in relation to the size of the pit to ensure adequate storage</p>	<p>NA</p> <p>Needs attention.</p> <p>Needs regular evaluation.</p>

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	<p>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. 2/14/08</p> <p>On the west side of the Housatonic River, the spill/leak near the generator trailer noted since 1/31 continues to worsen. Absorbent material and booms were in place but a small, uncontrolled, pool of yellow liquid had spread near the hay bale barrier. 2/14/08</p> <p>On the west side of the Housatonic River a minor amount of mud/slurry was previously observed over the paved surface of the parking lot in various areas throughout the staging area. The area appeared to have been recently cleaned and the staging area was in good condition. 2/14/08</p>	<p>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 12/12/07-2/14/08</p> <p>Properly contain, clean, and dispose of the spilled substance ASAP. Identify the source of the spill/leak and repair the equipment ASAP. 2/14/08</p> <p>Continue to clean any areas where incidental spills may have occurred due to construction activities. 2/14/08</p>	<p>Needs attention.</p> <p>Slurry appears to have been swept recently.</p>
<p>Additional Observations</p>	<p>On the east side of the Saugatuck River a broken light standard was observed near the entrance drive to the staging area where the construction trailer had been previously located. 1/31-2/14/08</p>	<p>Replace the broken light standard as part of final restoration efforts. 1/31-2/14/08</p>	<p>Needs attention.</p>

**Next likely scheduled
inspection:**

Thursday, February 21, 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*



On the east side of the Housatonic River, a hay bale barrier remains in place near the edge of the paved surface.



On the east side of the Housatonic River just adjacent to the work area, a small section of pavement had collapsed due to drilling activities. The area remains fenced.



The spill/leak that has been observed for the last two weeks near the generator trailer is worsening. Absorbent material remains spread over some portions of the spill and absorbent booms were in use. However, material continues to leak and a small pool of yellow liquid was observed adjacent to the hay bale barrier. Repair the leaking machinery ASAP and provide additional containment and clean-up.





The drilling rig and bentonite reclamation machine have been removed from the temporary work zone at Ash Creek. A minor amount of sediment and debris remain throughout the work area. Hay bales protecting the catch basins have been removed.



Crews at Ash Creek are fusing the final sections of conduit and preparing to cap the ends and temporarily backfill the drilling pit.



Clean-up efforts within the Saugatuck River have been completed. The crushed stone has been removed from the park area near Riverside Ave. where vacuum trucks had accessed the river. Minor ruts remains in this area. Final restoration will be needed during the growing season.



The staging area on the east side of the Saugatuck River has been partially restored. Additional restoration efforts are still required in some areas.