

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: November 28, 2007

Inspector: Gregory Sommer & Margaret Washburn

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

Rain Event: 0.91” of precipitation was reported since the previous inspection, with 0.78” of the total recorded on 11/26. (Bridgeport, CT NOAA data).

Areas of Inspection	Observation	Recommended Action	Corrected Action
<p>Access Roads and Adjacent Roadways</p> <p>Saugatuck River</p>	<p>A stone construction entrance is in place at the access to the staging area on the east side of the Saugatuck River. The entrance is accessed from the paved parking area off of Imperial Ave. Sediment tracking was not an issue. 11/28/07</p>	<p>Continue to maintain construction entrance to reduce sediment migration from the work area. Continue to sweep the parking lot area as necessary. 11/28/07</p>	<p>Needs regular attention.</p>
<p>Ash Creek</p>	<p>Temporary work zone/ lane closures remain along Old Post Road near Ash Creek as crews continue the HDD. A bentonite reclamation machine and drilling rig were on-site within the protected work zone. Catch basins have been protected except for one near the work on the northeast side of the creek. 11/28/07</p>	<p>Monitor the work area for tracking or slurry residue as activity increases. Minimize unnecessary impacts. See erosion control section for more details. 11/28/07</p>	<p>Not Applicable (NA)</p>
<p>Housatonic River</p>	<p>A temporary staging area has been set-up on the west side of the Housatonic River in a parking lot behind a shopping plaza. A bentonite reclamation machine and</p>	<p>Monitor the work area for tracking as activity increases. Minimize unnecessary impacts. 11/28/07</p>	<p>NA</p>

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Ash Creek	<p>on the west side of the Saugatuck River (and east of Riverside Ave.) near sta. #236 to minimize ruts. Minor sediment is beginning to accumulate along the shoulder of Riverside Ave here as vacuum trucks and other vehicles exit the work area. 11/21-11/28/07</p>	<p>sack (or similar) in any catch basins located down gradient of areas where vehicles are exiting the work zone to prevent sediment from entering basin. Sweep roadway as necessary. 11/21-11/28/07</p>	
	<p>Silt fence and haybales remain around the drilling pit area on the west side of the Saugatuck River. The previously exposed soils at the drill pit were mulched. Silt fence remains around the eastern drill pit as well. 11/28/07</p>	<p>Continue to monitor and maintain the controls to ensure they adequately contain the area. 11/28/07</p>	<p>Soils at the western drill pit were mulched</p>
	<p>Catch basins near Ash Creek have been protected and surrounded with hay bales, except for the basin adjacent to the northeast drilling pit. 11/28/07</p>	<p>Place a gutter buddy (or similar) in any catch basins located down gradient of exposed soils to prevent sediment from entering basin. 11/28/07</p>	<p>Needs attention.</p>
Housatonic River	<p>A small area of soil has been excavated near the bank on the northeast side of Ash Creek to provide access to a water valve. The exposed soils have the potential to run-off into the creek. Controls were not in place. 11/28/07</p>	<p>Place sediment control measures along the down gradient side of the slope between the exposed soils and the creek to prevent sediment from entering the resource area. 11/28/07</p>	<p>Needs attention.</p>
	<p>Perimeter controls are in place around the work area on the west side of the Housatonic River but a large amount of drilling mud was present on the pavement. 11/28/07</p>	<p>Continue to monitor and maintain controls carefully. See soils section for more details. 11/28/07</p>	<p>NA</p>
<p>Inland Wetland and Watercourse</p>	<p>One of the two drill holes that are part of the</p>	<p>Continue to implement the approved monitoring</p>	<p>NA</p>

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<p>encroachment and mitigation</p>	<p>watercourse crossing of the Saugatuck River and associated wetlands in Westport has been completed. Work will continue here with the second drill site. Geotechnical borings are occurring in the river. 11/28/07</p> <p>The HDD of Ash Creek and associated wetlands in Fairfield and Bridgeport is underway. 11/28/07</p> <p>The HDD of the Housatonic River and associated wetlands in Stratford and Milford is underway 11/28/07</p>	<p>plan for the crossing of the Saugatuck River provided in the D&M plan in order to avoid impacts to the resource areas. 11/28/07</p> <p>Continue to implement the approved monitoring plan for the crossing of Ash Creek provided in the D&M plan. 11/28/07</p> <p>Continue to implement the approved monitoring plan for the crossing of the Housatonic provided in the D&M plan. 11/28/07</p>	<p>NA</p> <p>NA</p>
<p>Staging, Storage, and Parking Areas Saugatuck River</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 paved parking lot of a church. 11/28/07</p> <p>The bentonite clay reclamation/ recycling Machine and other stored materials have been temporarily covered with tarps while work is on hold. 11/28/07</p> <p>On the east side of the river, several hoses are being used in the HDD operation and are located outside of the contained, silt fence limits of the staging area. Hoses also appear to be placed</p>	<p>See erosion control section for more details. Contain all material within the established limits of both yards. 11/28/07</p> <p>Continue to monitor area for sediment tracking sweep parking lot/ roadway as necessary. Minimize vehicle traffic in the staging area when feasible. 11/28/07</p> <p>Wherever feasible, relocate hoses within the staging area, using the silt fence to protect surrounding areas from potential spills or leaks. When hoses need to leave the contained area,</p>	<p>NA at this time.</p> <p>NA at this time.</p> <p>Continue to monitor.</p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
<p data-bbox="188 432 310 457">Ash Creek</p> <p data-bbox="188 722 386 747">Housatonic River</p>	<p data-bbox="488 260 797 447">under the silt fence at one point. 10/25-11/28/07 The contractor states a natural berm here will provide additional containment.</p> <p data-bbox="488 485 792 737">A temporary work zone has been established along Old Post Road on both sides of Ash Creek to accommodate the HDD activities. A bentonite reclamation machine is also set up here. 11/28/07</p> <p data-bbox="488 772 792 1024">A staging area has been established within a paved parking lot in the back of a shopping plaza on the west side of the Housatonic River to accommodate the HDD activities. 11/28/07</p>	<p data-bbox="823 260 1130 422">construct forked or Y-shaped stakes to prop the hoses over the silt fence rather than under the controls. 10/25-11/28/07</p> <p data-bbox="823 485 1105 672">See erosion control section for more details. Contain all material within the established limits of work zone. 11/28/07</p> <p data-bbox="823 772 1130 959">See spills/material storage section for more details. Contain all material within the established limits of work zone. 11/28/07</p>	<p data-bbox="1156 485 1341 510">NA at this time</p> <p data-bbox="1156 772 1373 835">See spills/material storage section.</p>
<p data-bbox="188 1062 250 1087">Soils</p>	<p data-bbox="488 1062 792 1346">Soils are exposed as part of the drill set-up and excavations at each HDD. Drilling slurry (bentonite clay) is used in the process. A few spills of the drilling mud were noted in each location. 11/28/07</p> <p data-bbox="488 1381 792 1568">The previously exposed soils at the drilling pit on the west side of the Saugatuck River have been stabilized with hay mulch. 11/28/07</p> <p data-bbox="488 1604 792 1728">The drilling pits have been excavated on both sides of Ash Creek. 11/28/07</p> <p data-bbox="488 1892 792 1917">The drilling pit has been</p>	<p data-bbox="823 1062 1130 1186">Monitor for dust as previously indicated. See the spills and material storage section. 11/28/07</p> <p data-bbox="823 1381 1130 1505">Continue to monitor the area and ensure sufficient stabilization in the winter months. 11/28/07</p> <p data-bbox="823 1604 1130 1854">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. 11/28/07</p> <p data-bbox="823 1892 1130 1917">Continue to monitor the</p>	<p data-bbox="1156 1062 1198 1087">NA</p> <p data-bbox="1156 1381 1393 1472">Exposed soils have been stabilized with hay mulch</p> <p data-bbox="1156 1604 1198 1629">NA</p> <p data-bbox="1156 1892 1198 1917">NA</p>

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	excavated on the west side of the Housatonic River. 11/28/07	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. See spills and material storage section for more details. 11/28/07	
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.	NA
Vegetative clearing (including trees to save or danger trees noted) or stabilization	<p>A row of hedges/shrubs was removed from the west side of the river near sta. #235+75. This area was not specifically marked with a note for clearing on the 4/5/07 revised version of the D&M Plan 9/18-11/28/07</p> <p>Shrubs were removed a few weeks ago from the west side of the river near sta. #234+50. This area does appear to be part of the section marked with a note for clearing on the 4/5/07 D&M Plan 11/28/07</p>	<p>Re-establish removed vegetation when feasible or confirm removal with the CSC if not approved by the D&M Plan. If the removal is included on a more recent revision of the D&M, restore vegetation as indicated when work is complete. 11/28/07</p> <p>When work is completed, restore the area as indicated in the D&M plan. 11/28/07</p>	<p>Needs evaluation/confirmation.</p> <p>NA at this time.</p>
Dewatering	Dewatering activities were not observed at this time. 11/28/07	Continue to ensure that material is contained appropriately and treated according to the groundwater handling plan as referenced in the D&M. 11/28/07	NA
Blasting	No blasting has been proposed. 11/28/07	None 11/28/07	NA
Spills and Material Storage Saugatuck River	<p>Reserve spill cleanup materials/kits were observed in the staging area. 11/28/07</p> <p>A small drilling mud spill was previously observed on the ground near a fire tank</p>	<p>Continue to bring spill kits to active work sites. 11/28/07</p> <p>Remove and properly dispose of slurry material where possible to</p>	<p>NA</p> <p>Needs attention.</p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
Ash Creek	<p>the ground near a frac tank in the staging area on the east side of the Saugatuck (11/15). Several other spills were also observed near the bentonite reclamation machine and near the drilling pit. 11/21-11/28/07</p>	<p>where possible to minimize unnecessary impacts. 11/21-11/28/07</p>	
	<p>Sand material has been stockpiled near the entrance to the staging area on the east side of the Saugatuck River. No controls are in place around the stockpile. 11/15-11/28/07</p>	<p>Install erosion controls to properly contain the stockpiled material. 11/15-11/28/07</p>	<p>Needs attention.</p>
	<p>Several bags of Max-Gel were torn and had spilled on the ground near the entrance to the staging area on the east side. 11/08-11/28/07</p>	<p>Although non-toxic, remove the spilled Max-Gel and use caution to prevent future spills and minimize unnecessary impacts. 11/08-11/28/07</p>	<p>Needs attention.</p>
	<p>Hoses behind the bentonite reclamation machine near Ash Creek have been disconnected and slurry material has spilled on the pavement. The adjacent catch basin is protected. 11/28/07</p>	<p>Remove and properly dispose of slurry material. Use caution when disconnecting hoses to prevent incidental slurry spills. When feasible, implement secondary containment to capture any residual material remaining in the hoses. 11/28/07</p>	<p>Needs attention</p>
Housatonic River	<p>Drilling pit on the west side of the Housatonic River appears to be adequately sized, but has been located several feet from where the drill string actually enters the ground. Drilling material is not being aimed directly into the drilling pit and a significant amount is flowing over the paved areas. 11/28/07</p>	<p>Modify the drilling pit set-up to fully encompass the drilling area and minimize the amount of drilling fluid flowing over the paved surface. Remove (sweep) the material and dispose of it. Provide additional containment measures to minimize unnecessary impacts throughout the staging area. 11/28/07</p>	<p>Needs evaluation/attention.</p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
Additional Observations	None. 11/28/07	None. 11/28/07	NA

Next likely scheduled inspection:

Wednesday, December 5, 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 & Margaret Washburn, BSC Group

Reviewer: Diana Walden, BSC Group



On the west side of the Saugatuck River, the previously exposed soil at the regraded drilling pit, has been stabilized with hay mulch.



Several bags of (non-toxic) Max-Gel appear to have spilled near the bentonite reclamation machine on the east side of the Saugatuck River.



Slurry residue/drilling mud spills remain in several locations in the staging area on the east side of the Saugatuck River. Slurry spills were observed in multiple locations behind the bentonite reclamation machine and near the drilling pit.



A water valve has been excavated on the northeast side of Ash Creek leaving an area of exposed soil adjacent to the bank. The exposed soil has the potential to run-off into the water.



Horizontal directional drilling (HDD) continues near Ash Creek. A drilling pit has been excavated on the northeast side of the creek. A catch basin adjacent to the drilling pit is not protected.



Hoses behind the betonite reclamation machine near Ash Creek have been disconnected, causing drilling material to spill onto the roadway. Although the adjacent catch basin is protected, attempt to sweep up the residue.



HDD is underway on the west side of the Housatonic River. The drilling pit appears to be adequately sized, but has been located several feet from where the drill string is actually entering the ground. Slurry material is not being aimed directly into the drilling pit and is flowing over the paved area. Perimeter controls are in place around the staging area, but slurry material should be better contained to minimize unnecessary impacts.

