

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: January 31, 2008

Inspector: Gregory Sommer

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

Rain Event: 0.07" of precipitation was reported since the previous inspection, all of which was recorded on 1/30 (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. Sediment tracking was not an issue. The bituminous curb near the access driveway has been damaged by heavy truck traffic. 1/24-1/31/08 | Continue to maintain construction entrance to reduce sediment migration from the work area. Continue to sweep the parking lot area as necessary. Repair damaged curbing when work is complete. 1/24-1/31/08 | Continue to monitor. |
| Ash Creek | A temporary work zone remains along the south side of Post Road/Fairfield Avenue as crews continue HDD. A bentonite reclamation machine and drilling rig were on-site within the protected work zone. 1/31/08 | Continue to monitor for tracking or slurry residue. See Erosion and Sediment Controls section for more details. 1/31/08 | 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 were on-site. A work area is also in place on the eastern bank. 1/31/08 | Continue to monitor for tracking or slurry residue. See Erosion and Sediment Control section for more details. 1/31/08 | NA |

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|---|--|---|--|
| <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. Electrical crews were pulling fish lines through the conduits. Final clean-up in the river is expected to take a couple more weeks. Booms remain in place. 1/31/08</p> <p>Drilling continues at Ash Creek. The reaming from east to west was in progress. 1/31/08</p> <p>Drilling continues at the Housatonic River. Drilling rigs were set-up on both sides of the river to deal with the difficult material beneath the River. Divers continue to monitor the river. 1/31/08</p> | <p>Monitor and maintain sediment and erosion controls. 1/31/08</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 creek. 1/31/08</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. 1/31/08</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. 1/31/08</p> <p>On the west side of the Saugatuck River, haybales and mulch remain in place around the drill pit. The silt fence along Lincoln St. still needs repair (since 12/31), but the sediment has been removed from along the shoulder of Lincoln Street. 1/31/08</p> | <p>Prevent dust migration by implementing the dust control measures. 1/31/08</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. Repair damaged sections of silt fence or remove once drilling pit is backfilled and stabilized. 1/31/08</p> | <p>NA at this time.</p> <p>Accumulated sediment has been removed. Additional attention needed.</p> |

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| Ash Creek | <p>Stone and geo-textile fabric remain in the park on the west side of the Saugatuck River near sta. #236 where vac trucks and other vehicles have access. Minimal sediment tracking was noted. 1/31/08</p> | <p>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. 1/31/08</p> | <p>NA</p> |
| | <p>On the east side of the Saugatuck River, most of the equipment has been removed from the staging area and the site has been partially restored. Crushed stone has been removed and hay mulch has been spread over the areas of exposed soils. Fence remains in place around the drilling pit. 1/31/08</p> | <p>Continue to monitor and maintain the controls. Backfill and stabilize the drilling pit when feasible. 1/24/08</p> | <p>Mulch was applied on exposed soils. Needs additional stabilization when feasible.</p> |
| | <p>Two minor frac outs and resulting holes 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 frozen over at the time of the inspection. 1/31/08</p> | <p>Properly contain and remove the material. Restore the area to pre-construction conditions. 1/24-1/31/08</p> | <p>Needs attention.</p> |
| | <p>Catch basins near Ash Creek have been protected and surrounded with hay bales. The overall work zone appeared to be well maintained. Minor amounts of mud and slurry material were observed over the pavement surface and along the curb line. 1/31/08</p> | <p>Continue to monitor and maintain sediment control measures. Contractors state the area is cleaned regularly as minor spills are common during active work. 1/31/08</p> | <p>NA at this time.</p> |
| Housatonic River | <p>Perimeter controls are in place around the work area on the west side of the Housatonic River. A</p> | <p>Continue to monitor the area and maintain the controls to ensure they adequately contain the area.</p> | <p>Needs regular attention.</p> |

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| | <p>dirt berm remains in place around the drilling pit. A minor amount of mud/slurry was observed over portions of the paved parking lot throughout the staging area. 1/31/08</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. 1/31/08</p> <p>A line of haybales remains in place along the eastern bank of the river. An area of run-off/slurry adjacent to the drill shaft, and trailer appears to have been removed. A large amount of slurry previously covered portions of the paved surfaces within the work area. The material has been cleaned up, but a thin layer of frozen mud/slurry remains over the surface. 1/31/08</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. 12/21-1/31/08</p> | <p>Ensure adequate capacity for drilling materials as well as stormwater run-off. Continue to clean any areas where incidental spills may have occurred due to construction activities. 1/24-1/31/08</p> <p>Continue to monitor the area. Replace/secure controls as needed. 1/31/08</p> <p>Continue to maintain controls to provide complete coverage and containment of the area. Continue to attend to spilled drilling slurry/mud on a regular basis. 1/31/08</p> <p>Add controls if necessary. Permanently stabilize area when feasible. 12/21-1/31/08</p> | <p>NA</p> <p>Crews removed most of the slurry/mud. Some additional attention is needed.</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.</p> | <p>Continue to implement the approved monitoring plan for the crossing of the Saugatuck River</p> | <p>NA</p> |

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| | <p>Booms remain in the river to contain materials from previous frac-outs and full clean-up is supposed to be completed in several weeks. 1/31/08</p> <p>The HDD of Ash Creek and associated wetlands in Fairfield and Bridgeport continues. 1/31/08</p> <p>The HDD of the Housatonic River and associated wetlands in Stratford and Milford continues. 1/31/08</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. 1/31/08</p> | <p>provided in the D&M plan. 1/31/08</p> <p>Continue to implement the approved monitoring plan for the crossing of Ash Creek provided in the D&M plan 1/31/08</p> <p>Continue to implement the approved monitoring plan for the crossing of the Housatonic provided in the D&M plan. 1/31/08</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. 1/31/08</p> | <p>NA</p> <p>NA</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, etc.) remains near the perimeter of the area. On the west side, the staging area is in a church parking lot. 1/31/08</p> <p>On the east side of the river, hoses used in the HDD operation have been removed as work has been completed. 1/31/08</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. 1/31/08</p> <p>None at this time. 1/31/08</p> | <p>NA at this time.</p> <p>Work has been completed and hoses have been removed.</p> |

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| <p>Ash Creek</p> <p>Housatonic River</p> | <p>A temporary work zone has been set-up along Post Road/ Fairfield Avenue on both sides of Ash Creek. 1/31/08</p> <p>A staging area remains within a paved parking 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. 1/31/08</p> | <p>See erosion control section for more details. Contain all material within the established limits of work zone. 1/24/08</p> <p>Contain all material within the established limits of work zone. Further containment and planning may be necessary here. See erosion control and spills/material storage sections for more details. 1/31/08</p> | <p>NA at this time.</p> <p>Continue to monitor.</p> |
| <p>Soils</p> <p><i>Soils are exposed as part of the drill set-up and excavations at each HDD. Drilling slurry (bentonite clay) is used in the process</i></p> | <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. 1/31/08</p> <p>Drilling is complete at the Saugatuck River. The drilling pit was adequately sized and remains open on both sides of the river. 1/31/08</p> <p>On the west side of the Saugatuck River, stone and geotextile fabric remain in place on the exposed soil in the park adjacent to the river. 1/31/08</p> <p>The drilling pits were active on both sides of Ash Creek and appear adequately sized for the drilling operations. 1/31/08</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</p> | <p>Monitor for dust as previously indicated. See the Spills and Material Storage section. 1/31/08</p> <p>Continue to monitor the amount of slurry/ runoff in drilling pit. Backfill the drilling pit as soon as feasible and stabilize the surface. 1/31/08</p> <p>Continue to provide soil stabilization. Restore the area to original conditions when access needs are complete. 1/31/08</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. 1/31/08</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</p> | <p>NA</p> <p>Continue to monitor, needs attention when feasible.</p> <p>NA at this time.</p> <p>NA</p> <p>NA</p> |

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| | portions of the perimeter. Both drill pits appear adequately sized. 1/31/08 | events and run-off. 1/31/08 | |
| State species of concern, threatened and endangered species. | According to the D&M plan, state-listed species are not located in this work area. 1/31/08 | None. 1/31/08 | NA |
| 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. 12/5/07-1/31/08</p> <p>Shrubs had previously been removed from the west side of the river near sta. #234+50 as per the D&M Plan. 1/31/08</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. 12/5/07-1/31/08</p> <p>When work is completed, restore the area as indicated in the D&M plan. 1/31/08</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. 1/31/08 | Continue to ensure that material is contained appropriately and treated according to the ground-water handling plan as referenced in the D&M. 1/31/08 | NA |
| Blasting | No blasting has been proposed. 1/31/08 | None 1/31/08 | NA |
| Spills and Material Storage Saugatuck River | <p>Reserve spill cleanup materials/kits were observed in the staging area. 1/31/08</p> <p>Spilled materials appear to have been removed from the east side of the Saugatuck River; during partial restoration. Small, new frac-outs were also observed near the drilling pit. 1/31/08</p> | <p>Continue to bring spill kits to active work sites. 1/31/08</p> <p>Properly contain and remove the material. Restore the area to pre-construction conditions. 1/31/08</p> | <p>NA</p> <p>Spilled materials were cleaned during the partial restoration. New frac-outs need restoration.</p> |

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| <p>Housatonic River</p> | <p>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. 1/31/08</p> <p>On the west side of the Housatonic River, a spill/leak was observed near the generator trailer. Absorbent material was appropriately spread over the area. 1/31/08</p> <p>On the east and west side of the Housatonic River minor amounts of mud/slurry have been observed in portions of the paved parking lot throughout the work areas. 1/31/08</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. Contractor states that the level of slurry in the pit will be lowered at the end of each workday to provide additional capacity 12/12/07-1/31/08.</p> <p>Continue to properly contain, clean, and dispose of the spilled substance. Use caution to prevent future spills. 1/31/08</p> <p>Continue to clean any areas where incidental spills may have occurred due to construction activities. See Erosion and Sediment Controls section for more detail. 1/31/08</p> | <p>Needs regular evaluation.</p> <p>Spilled material appeared to be appropriately controlled.</p> <p>Crews removed most of the slurry/mud. Some additional attention is needed.</p> |
| <p>Additional Observations</p> | <p>The sandbags being utilized near Ash Creek are beginning to deteriorate as a result of the changing freezing/thawing temperatures. Some of the bags have begun to tear and sand is spilling onto the pavement. 1/31/08</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. 1/31/08</p> | <p>Replace sandbags as necessary to avoid unnecessary impacts. 1/31/08</p> <p>Replace the broken light standard as part of final restoration efforts. 1/31/08</p> | <p>Needs attention.</p> <p>Needs attention.</p> |

**Next likely scheduled
inspection:**

Thursday, February 7, 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 the drilling pit is adequately contained with a sand berm. Hay mulch also remains on portions of the containment berm for stabilization.



On the west side of the Housatonic River, a minor amount of slurry/mud was noted on portions of the paved surfaces in several areas throughout the staging yard.



Spilled substance near the generator trailer appeared to be properly handled. At the time of the inspection, the spill was covered with an absorbent material.



Mud and slurry material were observed on the paved surface near the bentonite reclamation machine.



On the east side of the Saugatuck River, most of the drilling equipment has been removed from the staging area. Some minor ruts were noted off the edge of the access drive.



On the east side of the Saugatuck River, two small holes have formed between the drilling pit and the access drive. The area will need to be properly cleaned, stabilized, and backfilled.



Sediment has accumulated along the curb on Post Road near Ash Creek. Continue to sweep work area to reduce tracking and unnecessary impacts.



On the east side of Ash Creek, drilling continues. The drilling pit is adequately contained with sand bags. Some of the bags are deteriorating as a result of the changing temperatures and may need to be replaced.