

**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.**

**Segment 2a Inspection**

**Date:** April 29, 2008

**Inspector:** Matthew Creighton

**Location:** Segment 2a – Beseck Switching Station to Cheshire/Hamden Town Line

**Rainfall:** 2.37" of precipitation was recorded in the week prior to inspection, all falling on 4/28 (NOAA data at Meriden, CT).

Areas of Inspection	Observation	Recommended Action	Corrected Action
Access roads and adjacent roadways	Timber mats are in place at wetland crossings and staging areas. 4/29/08	See Erosion Control Section for more details 4/29/08	Not applicable (NA)
Carpenter Ln. to Rte 68	South of Carpenter Ln, a large area upgradient remains rutted, muddy, and disturbed following recent activity 4/1-4/29/08	See the erosion control section for more details. Continue to sweep the roadway as needed. 4/29/08	See erosion control section.
	New stone was installed within the wetlands (4/15). BSC was informed that crews are reducing the overall wetland impact by eliminating one of the proposed access roads to the structures. A spur road between the two sets of structures was created instead but it is unclear whether work is complete. Material is still stockpiled. 4/29/08	Evaluate the placement of the new stone to determine whether impacts can be even further reduced by using the existing access footprint. Culverts will need to be installed and controls should be fixed prior to working in the wetlands. 4/15-4/29/08 See erosion control section.	Needs evaluation. See erosion control section.
Durham Rd. Liney Hall Ln.	An equipment bridge crossing remains over the Muddy River tributary and a second bridge is in place off Liney Hall Rd. Water flowing across the road off Durham Rd. was clear this week. 4/29/08	Continue to monitor and add controls as needed. Keep equipment out of the access road south of Durham Rd (if possible), while it is flooded. 2/20-4/29/08	Continue to restrict access at Durham Rd. if possible.

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Tamarack Swamp Rd.	<p>No sediment was noted on Liney Hall Ln. at the ROW access but the ruts remain at the entrance. 3/11-4/29/08</p> <p>Snow and stone had been plowed onto the timber mats and subsequently into the wetlands. 2/26-4/29/08</p> <p>Access road within the pasture east of the roadway includes wetland crossings via culverts. Roadway is free of sediment. Turbid water has been noted flowing around the site during storms but largely due to the existing field conditions. 4/29/08</p>	<p>Continue to sweep the roadway on a regular basis and install a tracking pad (or refresh stone at the entrance.) 3/11-4/29/08</p> <p>Carefully remove stone from the wetlands. 2/26-4/29/08</p> <p>Clean/sweep roadway as needed during work and monitor controls at wetland crossings. Continue to monitor and see erosion control section for details. 4/29/08</p>	<p>Entrance needs attention when feasible.</p> <p>Needs attention during final restoration.</p> <p>NA at this time</p>
Powers Rd.	<p>The access road installed to bypass the line anchors was removed. Controls remain in place and are working well. 4/29/08</p>	<p>Controls should be monitored and replaced as needed. If sediment has accumulated more than 2" here, it should be removed from the wetlands by hand, not to disturb the natural vegetation. 4/29/08</p>	<p>Controls were in good shape. Timber mats were removed.</p>
Williams; S. Turnpike + Merritt Parkway; Mansion Rd.; Durham Rd.; Stony Brook; Pent Rd.; Oliver Creek Rd.	<p>No sediment tracking was noted on any of these roadways and the adjacent areas appear stable. Stone construction entrance pads remain in place at entrances. 4/29/08</p>	<p>Continue to monitor entrances and sweep as needed. 4/29/08</p>	<p>NA</p>
Pond Hill Rd. Docker Dr.	<p>ATVs have been causing ruts and disturbance in areas between Pond Hill Rd and Docker Dr. (since 12/4). Contractor has placed heavy mulch along the slopes at Docker to stop erosion problems from getting worse.</p>	<p>Contractors have made efforts to stabilize the area several times but ATV traffic is high in this area. Mulch should help reduce the impacts from ATV's. See erosion control section for more details.</p>	<p>Mulch was placed along the slopes for stabilization.</p>

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<p><b>Mansion Rd to Tuttle Ave.</b></p> <p><b>Old Farms Road</b></p>	<p><b>4/29/08</b></p> <p><b>A culvert remains in place to help prevent ponding on the access road. Water bars remain in place across the access road to slow and filter stormwater. 4/29/08</b></p> <p><b>Plywood is being used on driveways crossing the ROW to reduce the impact from equipment. 12/18-4/29/08</b></p> <p><b>Drainage swale/ waterbar was installed at the low, saturated area along driveway (1/15). Turbid water was not noted leaving the driveway via this swale. 4/29/08</b></p> <p><b>Equipment has damaged the access driveway for overhead work. (Since 1/8) New stone remains at the access driveway over the pavement to reduce tracking and run-off. 4/29/08</b></p> <p><b>The previously hydroseeded area along the shoulder of the roadway is rutted and disturbed from vehicle access. 1/8-4/29/08</b></p>	<p><b>4/29/08</b></p> <p><b>Monitor the area and add controls if needed. 4/29/08</b></p> <p><b>Continue to monitor for sediment on roadway and driveways; continue to use rubber mats or plywood to protect driveways. 12/18-4/29/08</b></p> <p><b>Additional controls are needed here for heavy rains, potentially haybale check dams along the swale. 4/29/08</b></p> <p><b>Remove stone upon completion of work and evaluate and repair the driveway as needed where damaged. 1/22-4/29/08</b></p> <p><b>Re-grade and restore the rutted areas when feasible. 1/8-4/29/08</b></p>	<p><b>NA</b></p> <p><b>NA at this time</b></p> <p><b>Needs attention when working in saturated conditions.</b></p> <p><b>Needs evaluation and attention upon project completion.</b></p> <p><b>Needs attention when feasible.</b></p>
<p><b>Foundation and site construction</b></p>	<p><b>Heavy mulch was placed on the exposed slopes off Docker Dr. 4/29/08</b></p>	<p><b>Continue to monitor and maintain controls in this difficult area. 4/29/08</b></p>	<p><b>Mulch was applied on exposed slopes.</b></p>
<p><b>Erosion and sediment controls Carpenter Ln. to Rt. 68</b></p>	<p><b>The high flow that is present, during heavy rains, within the ditch/outlet here will not allow haybales to remain in place. However, stone</b></p>	<p><b>The outlet needed effective controls when working on the pad in order to filter turbid water before it leaves the site. Ensure these controls</b></p>	<p><b>Needs attention.</b></p>

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<p>Durham Rd. Liney Hall Ln.</p>	<p>work (4/8) had created turbidity in the wetland surface water which flowed off site. A stone/sediment pile was also left in/adjacent to the wetlands. 4/15-4/29/08.</p> <p>Area is heavily rutted and disturbed from recent activities. 3/18-4/29/08</p> <p>ATV traffic was also noted in this area, damaging controls and leaving ruts (since 1/16).</p> <p>Steep slope off High Hill Rd. has a small, eroded washout channel. ATV tracks were also noted disturbing the vegetative cover in this area. Water bars are installed to contain and filter stormwater. 12/4-4/29/08</p> <p>Controls remain intact along the access road and bridge south of Durham Rd. Timber mats and fiber rolls remain in place. The flooded portion of the road was being filtered well by controls. 4/29/08</p> <p>Exposed slopes upgradient of wetlands north of Durham need stabilization and silt fence needs repair due to large stones and material from the slope. 4/22-4/29/08</p>	<p>are in place during active work or rain events due to the adjacent exposed soil. 4/8-4/29/08 The stone needs to be removed. See Inland wetland section.</p> <p>Disturbed areas will need temporary stabilization. Provide additional attention to establish vegetative cover. 3/18-4/29/08 Evaluate measures to keep ATVs out of the area. 4/29/08</p> <p>Evaluate measures to keep ATVs out of the area. Regrade and add controls as needed to the slope. Perform final slope stabilization in the growing season. 12/4-4/29/08</p> <p>Monitor and add controls along the road or wetland as needed. See Access Road and Inland wetland sections for more information on this area. 4/29/08</p> <p>Stabilize the slope &amp; soils north of Durham Rd. Pull back stones and material and repair controls 4/22-4/29/08</p>	<p>Area has been inactive several weeks and needs final grading and stabilization per timelines.</p> <p>Continue to monitor.</p> <p>Restrict access in flooded areas when feasible.</p> <p>Liney Hall Rd needs attention upon completion of work.</p> <p>Needs attention</p>
<p>Williams Rd to East Center St.</p>	<p>Timber mats and silt fence remain in place at the Stony Brook site access. 4/29/08</p> <p>Two small detention basins were used as slurry dewatering areas. Silt</p>	<p>Add controls as needed in this area. Stabilize soils when applicable. 4/29/08</p> <p>If these pump-out areas are no longer needed, they should be final</p>	<p>NA</p> <p>NA</p>

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<p><b>Tamarack Swamp Rd.</b></p>	<p>fence and a mulched berm are in place around the basins. Basins are dry. 4/29/08</p> <p>A pad and foundation remain within wetlands with an adjacent area of standing water west side of roadway. Some encroachment has occurred both during installation and wire grounding. Controls were replaced around the sediment on 12/26 and hay mulch was applied. 4/29/08</p> <p>On the east side, a soil stockpile remains in place with some adjacent controls. However, the pile is not fully stabilized. 4/1-4/29/08</p>	<p>graded and stabilized when feasible. 4/29/08</p> <p>Ensure that sediment from both encroachments is removed, not just encompassed, or determine if existing conditions are covered by the permit 12/26-3/4/08 Contractors are regularly evaluating pads to ensure impacts are within permitted dimensions. See Inland wetland section for more details 12/26-4/29/08</p> <p>Remove or stabilize the stockpile as soon as feasible in accordance with the D&amp;M Plan. 4/1-4/29/08</p>	<p>See Inland wetland section.</p> <p>Stockpile should be stabilized or removed.</p>
<p><b>Powers Rd. Woodhouse Ave. Harrison Rd.</b></p>	<p>Timber mats on the bypass access road off Powers Rd. were removed. Existing controls remain. 4/29/08</p> <p>The previously seeded stockpile area off Woodhouse Ave. may need additional hay and seed now that spring and the growing season has arrived. 4/29/08 Vehicle tracks were noted in the reclaimed areas. 11/27- 4/29/08</p> <p>The stone settling and overflow area installed at the outlet at Harrison Rd appears to be working well for handling stormwater run-off issues during heavy rain. Water was pooling and percolating through the</p>	<p>Continue to stabilize the area and maintain controls. If sediment has accumulated in the wetland, it should be removed by hand. 3/18-4/29/08</p> <p>Ensure sufficient stabilization and add hay/seed as needed. Avoid access once an area is temporarily or permanently stabilized. 11/27-4/29/08</p> <p>This area should be monitored closely to evaluate the effectiveness over time. Any existing exposed soils should be stabilized upon completion of work. 4/29/08</p>	<p>Timber mats were removed from the saturated crossing.</p> <p>Monitor this area for stabilization. Additional hay and seed may be needed.</p> <p>The new stormwater solution appears to be working well.</p>

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<p>Pond Hill Rd. &amp; Docker Dr. (I 91 – Rte. 5)</p> <p>Old Farms Rd.</p>	<p>percolating through the riprap pad. 4/29/08</p> <p>A layer of heavy bark mulch has been applied along the slopes off Docker to stop the erosion/gullyng issues. The mulch should hold up to some ATV traffic. 4/29/08</p> <p>Turbid run-off was noted several times (since 11/6) from work near structure #24209, on the access roads, and roadway. A drainage swale is in place (since 1/16) to prevent turbid run-off from the saturated driveway crossing however, run-off was noted during heavy rains when active. 4/29/08</p> <p>Two soil stockpiles remain onsite, one upgradient from wetlands with sediment observed migrating beneath the filter sock controls (since 3/4) Crews were in the process of removing the pile but work was on hold. 4/1-4/29/08</p>	<p>Continue to maintain controls and monitor the effectiveness against the ATV traffic. ATV traffic will be difficult to control as they are accessing from abutting land and have always disturbed this area. 4/29/08</p> <p>Continue to stabilize disturbed areas to the extent feasible and ensure the area is contained by controls, including CB liners, as needed to filter run-off. Additional controls should be used in the drainage areas. 4/29/08 Continue to stabilize all areas of exposed soils on site.</p> <p>Temporarily stabilize soils in this area as soon as possible. 12/26-4/1/08 Continue to remove stockpiles and reinforce controls until this work is complete. 3/18-4/29/08</p>	<p>Heavy bark mulch has been applied along the exposed slopes.</p> <p>Continue to evaluate and stabilize.</p> <p>Area needs additional attention when active, in periods of heavy rain.</p> <p>Controls Need Attention.</p> <p>Stockpile removal is on hold.</p>
<p>Inland Wetland and Watercourse encroachment and mitigation</p>	<p>Work has occurred in jurisdictional wetlands under an ACOE permit</p> <p>In accordance with the D&amp;M Plan, all work occurring in and around wetlands should be expedited to minimize potential adverse impacts to wetlands and reduce disturbances to wetland soils. This includes attending to restoration of adjacent upland areas</p>	<p>Approved work in wetlands will follow the permit guidelines. 4/29/08</p> <p>Final stabilization and reclamation efforts should occur in completed areas in and around wetlands. Any additional work needed in and around wetlands should be expedited to allow for final stabilization procedures to commence. Weather is becoming</p>	<p>NA</p> <p>Continue to evaluate.</p>

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Carpenter Ln. to Rte 68	<p>when work is complete. 4/29/08</p> <p>Sections of ROW are located within the McKenzie Watershed Protection District of the Town of Wallingford from existing pole #8798 to Beseck SS. 4/29/08</p> <p>Some of the timber mat and stone staging areas remain in place within wetlands off Carpenter Ln. Large disturbed area is still noted upgradient from wetlands 3/18-4/29/08</p> <p>A pile of stone and material from recent work is still present in/ adjacent to the standing water. 4/22-4/29/08</p> <p>Haybales cannot remain upright in the high flow at the outlet during heavy rain. However effective controls were needed as turbid water is noted during active stone work. 4/8-4/29/08</p>	<p>conductive to restoration. 4/29/08</p> <p>This area should be closely monitored. Monitor equipment for leaks whenever working in these sensitive areas. Refuel and store equipment outside of the district. 4/29/08</p> <p>Continue to remove any staging areas from the wetlands as soon as feasible and monitor for sufficient stabilization. 3/18-4/29/08</p> <p>Remove, relocate or use the stockpiled material. 4/22-4/29/08</p> <p>Effective/alternative controls are needed to protect wetlands downstream and filter the turbid water. 4/8-4/29/08</p>	<p>Needs to be monitored</p> <p>Work should be expedited here. Stabilization needed per timelines as the area has been inactive for several weeks.</p> <p>Needs attention</p> <p>Controls need attention</p>
Durham Rd. Liney Hall Ln.	<p>Timber mats are in place at the wetland crossings in these sections and well installed bridges are in place for two larger stream channels. The access off Durham Rd. is flooded but flow is filtered by controls. 4/29/08</p> <p>Snow removal (on 2/26) has pushed stone onto timber mats and subsequently into wetlands off Liney Hall Ln. 4/29/08</p>	<p>Continue to monitor and add controls as needed. Monitor the bridge surface for sediment tracking. Avoid equipment access through flooded areas if feasible. 4/29/08</p> <p>Remove stone, by hand, from wetlands and pull stone back off of the timber mats. 2/26-4/29/08</p>	<p>Restrict access in flooded areas when feasible.</p> <p>Needs attention upon completion of work.</p>
Tamarack Swamp Road	Pad and adjacent controls	Area is sensitive and	The contractor has stated

Areas of Inspection	Observation	Recommended Action	Corrected Action
<p><b>Powers Rd. &amp; Woodhouse Ave.</b></p> <p><b>Mansion Rd to Tuttle Ave.</b></p> <p><b>Old Farms Rd.</b></p>	<p>remain within wetlands. In two separate occasions, during active work, sediment was pushed over controls into wetlands. Controls were replaced around the sediment each time but the encroachments were not removed. However, the contractor is evaluating pads with GPS to ensure limits are within what was permitted. 2/20-4/29/08</p> <p>Soils exposed by timber mat removal were seeded, but not all stone was removed from the wetland prior to seeding (noted 9/25) Well-established grass cover is in place. Turbid run-off noted from the access road bypass was reaching the wetland (3/4-3/11) but additional controls have since been installed and timber mats were removed. 4/29/08</p> <p>Several wetland crossings are in place. 4/29/08</p> <p>Wetland clearing and crossing complete via an existing bridge and culvert. Disturbed areas remain mulched and seeded. 4/29/08</p>	<p>should be monitored closely. Pull soil back before installing new controls, do not just encompass it. 12/4-2/20/08</p> <p>The contractor stated that pads are within the proposed/permitted size limits. 2/20-4/29/08</p> <p>Contractors will also make an effort to pull back the stone during reclamation. 4/29/08</p> <p>Remove the stone from the wetlands to the extent feasible (recommended since 9/25) However, crews continue to return here for line work, potentially disturbing the area again before final stabilization. 3/24/08</p> <p>Check wetlands for accumulated sediment and remove by hand if necessary. 3/18-4/29/08</p> <p>Monitor and maintain controls. Crossings will need to be restored when access needs are complete. 4/29/08</p> <p>Additional controls may be needed to prevent run-off from any soil disturbance. See access road and erosion control sections. 4/29/08</p>	<p>that pads are within the proposed/permitted size limits but will attempt to remove spoil to the extent feasible.</p> <p>1<sup>st</sup> area needs attention during final restoration</p> <p>Good controls are in place.</p> <p>Wetlands need evaluation. Timber mats were removed.</p> <p>NA at this time.</p> <p>NA at this time.</p>
<p><b>State species of concern, threatened and endangered species.</b></p> <p><b>Liney Hall Rd</b></p>	<p>A no entry sign remains near the potential vernal pool off Stony Brook Rd. as an appropriate alternative to construction fencing. 4/29/08</p> <p>Several frog and</p>	<p>Continue to monitor area and retain distance from active work. 4/29/08</p> <p>Prevent turbidity and</p>	<p>NA</p> <p>NA</p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
<p>Woodhouse Ave; Harrison Rd. Mansion Rd. to Tuttle Ave</p>	<p>salamander egg masses were noted last spring within prime amphibian breeding habitat, located off Liney Hall Ln. This is not a state listed species issue but indicates good amphibian breeding habitat. 4/29/08</p> <p>Evidence of Eastern Box turtles has been confirmed off Woodhouse Ave on 5/8/07 and in the section between Mansion Rd. and Tuttle Ave on 7/17/07. 4/29/08</p>	<p>direct impacts to these areas to the extent feasible. 4/29/08</p> <p>Both areas should receive the same attention as known protected habitat area along the ROW. The dormant season has ended as of April 1<sup>st</sup> and sweeps for turtles are required prior to accessing the site. 4/29/08</p>	<p>Eastern Box turtles active season has begun and sweeps are needed.</p>
<p><b>Vegetative clearing or stabilization</b></p> <p>Most work areas Have been cleared</p> <p>Woodhouse Ave and Harrison Rd.</p> <p>Pond Hill Rd. &amp; Docker Dr. (I 91 – Rte. 5) Pent Rd. &amp; Oliver Creek Rd.</p> <p>Old Farms Rd. (115kV Underground trench-</p>	<p>Vegetation was preserved in areas where invasive species were not dominant. 4/29/08</p> <p>Work is complete, at least temporarily, in many areas along the route. However, crews continue working on lines through the ROW. 4/29/08</p> <p>As requested by state representatives and Siting Council staff, native shrubs were planted (9/18) in clusters to provide shading for Allen Brook. 4/29/08</p> <p>Contractors have spread heavy bark mulch over the exposed areas and rills/gullies for stabilization. 4/29/08</p> <p>Previously hydroseeded areas along the shoulders</p>	<p>Retain vegetation where feasible; confirm that cutting is limited only to areas defined in D&amp;M plan. Be extremely mindful of the extent of clearing flags. 4/29/08</p> <p>The D&amp;M states that areas should be temporarily stabilized if work will not return in 21 days. At this time, weather is becoming conducive to final restoration. 4/29/08</p> <p>Continue to monitor and replace shrubs if needed. 4/29/08</p> <p>See erosion control section. Monitor new controls for effectiveness. 4/29/08</p> <p>Regrade the disturbed/ rutted area and stabilize. 4/29/08</p>	<p>NA</p> <p>Final stabilization will be needed upon completion of work.</p> <p>NA at this time.</p> <p>Mulch has been spread over exposed areas.</p> <p>Needs additional stabilization.</p>



**Next likely scheduled  
inspection:**

**Tuesday May 6, 2008**

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**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:**     *Matt Creighton, BSC Group*    

**Reviewer:**     *Diana Walden, BSC Group*



**Carpenter Ln:** Large area disturbed/exposed during line crew work remains upgradient from wetlands. Final grade and stabilize this area which has remained inactive for several weeks.



**Carpenter Ln:** Stone/sediment stockpile from pad work was located in/adjacent to wetlands. Relocate or remove the stockpile greater than 100 feet from wetlands. Also, controls at the outlet should be repaired prior to additional work.



**Tamarack Swamp Rd:** View of timber mat access road through the farm fields and wetlands.



**Tamarack Swamp Rd.:** Stockpile located east of the roadway is not fully contained with controls. Add controls and stabilize or remove the stockpile.



**Powers Rd: Timber mat removal complete at the saturated crossing. Controls remain in place at the wetland.**



**Harrison Rd: View of the recently installed stormwater solution for run-off from the roadway. The detention area had some pooled water and stormwater was percolating through the stone during heavy rain. Continue to evaluate.**



**Pond Hill Rd: Grass growth noted at exposed soils graded and seeded over winter. Continue to monitor for full stabilization.**



**Docker Dr: Heavy mulch was applied over exposed soils for stabilization from stormwater/ erosion and ATV traffic.**