

**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 1b (Royal Oaks Bypass) Inspection**

**Date:** April 29, 2008

**Inspector:** Matthew Creighton

**Location:** Segment 1b (Royal Oaks Bypass)

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

| <b>Areas of Inspection</b>                                                                                                                                                                                            | <b>Observation</b>                                                                                                                                                                                  | <b>Recommended Action</b>                                                                                                                         | <b>Corrected Action</b>                                     |
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| <b>Access roads and adjacent roadways</b><br><br><b>Route 17 west (through contractor yard), Rte 17 east.</b><br><br><i>This structure was incorrectly reported last week as #24580. The actual number is #24530.</i> | <b>The permanent access road remains in place east of Rte. 17 and within the contractor receiving yard. 4/29/08</b>                                                                                 | <b>Continue to monitor for sediment tracking in active areas. Sweep roadways as necessary. 4/29/08</b>                                            | <b>Active areas need regular attention</b>                  |
|                                                                                                                                                                                                                       | <b>The old wooden pole remains across the slope off Black Walnut Dr. to prevent vehicles from driving over and damaging the water bar here. 4/29/08</b>                                             | <b>None. 4/29/08</b>                                                                                                                              | <b>Not Applicable (NA) at this time</b>                     |
|                                                                                                                                                                                                                       | <b>Several areas of timber mats have been removed from wetlands in these sections. Some culverts and fill remain. 4/29/08</b>                                                                       | <b>Continue to remove and stabilize wetland crossings now that work is complete. See erosion control section. 4/29/08</b>                         | <b>NA at this time.</b>                                     |
|                                                                                                                                                                                                                       | <b>Slightly turbid water has been noted at the receiving yard during times of heavy traffic and precipitation. Controls remain in place around the pond adjacent to the receiving yard. 4/29/08</b> | <b>See erosion control section for details. Continue to evaluate the source of turbidity noted regularly in the access road crossing. 4/29/08</b> | <b>Controls are in good shape but continue to evaluate.</b> |
|                                                                                                                                                                                                                       | <b>New permanent stone access road was in place west of Rte 17 and south of the receiving yard (north of Little Ln. to</b>                                                                          | <b>A culvert or similar is needed at the channel crossing to prevent flooding and erosion of the access road and to</b>                           | <b>Channel hydrology needs attention/evaluation.</b>        |

| Areas of Inspection                                                                                                                                 | Observation                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Recommended Action                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Corrected Action                                                                                                                                                           |
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|                                                                                                                                                     | <p>structure #24530) where timber mats had been removed. The access road bisects a small channel and a culvert was not installed. This area is flooding and forming a new channel around the access road. 4/14-4/29/08</p> <p>The area from Rte 17 to the edge of the wetlands remains reclaimed with mulch and seed. A gate is in place off Rt 17. 4/29/08</p> <p>The timber mats, pads, and access roads located from Rte 17 to Little Ln were removed, graded, and seeded. 4/29/08</p> | <p>maintain the hydrology in the currently bisected channel. 4/14-4/29/08</p> <p>Contractors will be evaluating this and may wait to make repairs/improvements during low flow. 4/29/08</p> <p>Continue to monitor for final stabilization and vegetative cover. Access through here may still be needed in order to maintain hydrology at the crossing. 4/21-4/29/08</p> <p>Monitor this area for run-off and add controls as needed until stable. 4/29/08</p>                | <p>Contractors are evaluating this area.</p> <p>Monitor for stabilization.</p> <p>Restoration is complete. Monitor for stabilization.</p>                                  |
| <p><b>Foundation and site construction</b></p>                                                                                                      | <p>Final grading off Little Ln. is complete. 4/29/08</p>                                                                                                                                                                                                                                                                                                                                                                                                                                  | <p>Monitor the area for stabilization. 4/29/08</p>                                                                                                                                                                                                                                                                                                                                                                                                                             | <p>Reclamation complete in this area.</p>                                                                                                                                  |
| <p><b>Erosion and sediment controls</b></p> <p><i>This structure was incorrectly reported last week as #24580. The actual number is #24530.</i></p> | <p>A stone road remains in place of timber mats west of Rte. 17 within the wetlands to structure #24530. Channel crossing is flooded and no culvert has been installed (4/14). Floodwaters are flowing around the new access road creating a new channel and flowing into an adjacent stream and off site. 4/29/08</p> <p>Haybales, stone sediment traps, check dams, and/or fiber rolls were used to filter water flowing from the access road east of Rte 17. 4/29/08</p>               | <p>Ensure sufficient stabilization or controls following the access road construction. The channel will require a culvert to maintain hydrology. Monitor the new access road for erosion. See access roads section. 4/14-4/29/08</p> <p>Continue to monitor and stabilize disturbed areas when work is complete and activity will not return within 21 days. Add/maintain controls as necessary. Ensure areas are sufficiently stabilized until final restoration. 4/29/08</p> | <p>Area needs attention. Stabilize exposed soils. Add controls around newly installed access road.</p> <p>Contractors are evaluating this area.</p> <p>NA at this time</p> |

| Areas of Inspection                                                                                                                                                              | Observation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Recommended Action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Corrected Action                                                                                                                                                                                                                                                  |
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|                                                                                                                                                                                  | <p>Pad and edges of the access road have been reclaimed, mulched, and seeded at structure #24531. 4/29/08</p> <p>Areas west of the Black Walnut Drive entrance remains reclaimed and temporarily stabilized. 4/29/08</p> <p>Controls remain in place at the CSC approved line-pulling area located adjacent to wetlands. Some exposed areas remain seeded and mulched and silt fence remains adjacent to the wetlands. Stockpiles have been removed. 4/29/08</p>                                                                                                               | <p>Add controls as necessary and monitor for erosion and final vegetative cover. 4/29/08</p> <p>Continue to monitor for final stabilization in the growing season. 4/29/08</p> <p>Upon completion of work provide full restoration of the area. Good controls are in place. 4/29/08</p>                                                                                                                                                                                                                                                                                                 | <p>Restoration complete at this structure.</p> <p>Monitor stabilization measures for effectiveness.</p> <p>Stockpiles were removed. The area will still require restoration.</p>                                                                                  |
| <p><b>Inland Wetland and Watercourse encroachment and mitigation</b></p> <p><i>This structure was incorrectly reported last week as #24580. The actual number is #24530.</i></p> | <p>Access road, pads, and timber mats west of Rte 17 and east of Little Ln have been reclaimed. 4/29/08</p> <p>New (permitted) permanent access road was installed through wetlands to reach #24530. However, hydrology in a small channel was bisected. 4/14-4/29/08</p> <p>The area is flooding and flowing around the new access road, creating new eroded channels flowing into the nearby stream and off site. 4/29/08</p> <p>Access road is in place west of Rte 17 in the receiving yard wetlands. Three streams were crossed with culverts. Controls and mulch are</p> | <p>Monitor newly reclaimed areas until stabilized. 4/29/08</p> <p>See Access road and Erosion control sections for more information but a solution should be evaluated. Either take the grade of the road down here or install a culvert. Controls may also be needed to prevent run-off. 4/14-4/29/08</p> <p>Contractors were evaluating this area but suggest waiting until low flow to prevent further disturbance. 4/29/08</p> <p>Monitor area closely for erosion and run-off. Add controls as needed to prevent road run-off. Any temporary wetland crossings will have to be</p> | <p>Final reclamation is complete in this area. Monitor until stable.</p> <p>Needs evaluation and attention.</p> <p><i>Contractors were evaluating. If the road is being washed out, attention may be needed sooner than low flow.</i></p> <p>NA at this time.</p> |

| Areas of Inspection                                                                                                                                                             | Observation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Recommended Action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Corrected Action                                                                                                                                                                                                |
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|                                                                                                                                                                                 | <p><b>in place adjacent to the roads. 4/29/08</b></p> <p><b>One of the streams has a considerable amount of sediment accumulation in the wetlands at the culvert, likely from off-site erosion and/or turbidity in the adjacent pond. 4/29/08</b></p> <p><b>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 in adjacent upland areas when work is complete. Reclamation has occurred several areas. Wetland areas within the watershed are waiting for reclamation. 4/7-4/29/08</b></p> | <p><b>removed when work is complete. 4/29/08</b></p> <p><b>Although the sediment accumulation does not appear to be project related, consider carefully removing the sediment accumulation in the wetlands to improve conditions. 3/24-4/29/08</b></p> <p><b>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. 4/7-4/29/08</b></p> | <p><b>Needs evaluation and consideration.</b></p> <p><i>Contractors stated they will make improvements upon restoration.</i></p> <p><b>Reclamation has occurred in several areas. Continue to evaluate.</b></p> |
| <p><b>State species of concern, threatened and endangered species.</b></p> <p><i>According to the D&amp;M plan, state-listed species are not located in this work area.</i></p> | <p><b>Frogs, tadpoles, turtles and <i>Ambystoma</i> (salamander) egg masses were noted in the small pond within the ROW last spring. These are not state-listed species but do indicate good amphibian breeding habitat. 4/29/08</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                      | <p><b>Continue using separate access points to reduce impacts to the pond. 4/29/08</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                          | <p>NA</p>                                                                                                                                                                                                       |
| <p><b>Vegetative clearing or stabilization</b></p>                                                                                                                              | <p><b>Restoration was complete west of Rt 17 at the intersection of Little Lane and the upland portion of the access to structure #24530 was mulched and seeded. 4/29/08</b></p> <p><b>Restoration completed from the access road entrance within the</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                 | <p><b>Continue to restore and stabilize any work areas that will no longer be active, or temporarily stabilize areas where work will not return within 21 days. 11/5-4/29/08</b></p> <p><b>Monitor restored areas for stabilization and add controls as needed.</b></p>                                                                                                                                                                                                                                             | <p><b>Final restoration has occurred in some areas.</b></p> <p><b>Final restoration has occurred.</b></p>                                                                                                       |

| <b>Areas of Inspection</b>                | <b>Observation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Recommended Action</b>                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Corrected Action</b>                                                 |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
|                                           | receiving yard to #24531 as well as off Little Lane. 4/29/08                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4/29/08                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                         |
| <b>Dewatering</b>                         | Active work associated with dewatering was no longer observed. 4/29/08                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | NA 4/29/08                                                                                                                                                                                                                                                                                                                                                                                                                 | NA                                                                      |
| <b>Blasting</b>                           | No blasting is proposed at this time. 4/29/08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | None                                                                                                                                                                                                                                                                                                                                                                                                                       | NA                                                                      |
| <b>Spills, soils and material storage</b> | <p>Contractor receiving yard is set up near Rte. 17 in Middletown for 1A work. Spill kits move from site to site with equipment. 4/29/08</p> <p>Monitor equipment closely when working within the Laurel Brook watershed protection area. Any refueling and equipment maintenance should be done outside of the protected area. 4/29/08</p> <p>Most of the soil stockpiles noted along this segment have been removed. The small stockpiles were noted at the edge of the wetlands near the receiving yard have been removed. 4/29/08</p> | <p>Continue to use and restock materials as needed. 4/29/08</p> <p>In general, if a leak is observed, contain it and remove equipment from water department property. Proactively check equipment for leaks when working in the protected area. 4/29/08</p> <p>Monitor and add controls as needed. Attempt to keep stockpiled soil greater than 100 feet of wetlands proactively. See erosion control section. 4/29/08</p> | <p>NA</p> <p>NA at this time.</p> <p>Small stockpiles were removed.</p> |
| <b>Additional Observations</b>            | None. 4/29/08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | None. 4/29/08                                                                                                                                                                                                                                                                                                                                                                                                              | NA                                                                      |

**Next likely scheduled inspection:**

Monday May 5, 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:** Matt Creighton, BSC Group

**Reviewer:** Diana Walden, BSC Group



**Small stockpiles have been removed from the upland adjacent to the contractor yard.**



**Stone pad was removed, graded and hay and seed applied at structure #24531.**



**Water levels were higher at the channel bisected by the new access road. Either reduce the grade or install a culvert to maintain flow/hydrology in this area. Contractors will be evaluating this area but improvements will likely wait until a low flow period.**



**Timber mat removal and final grading from Rte 17 to Little Ln is complete. Monitor for final stabilization with vegetative cover.**