

**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 1a Inspection**

**Date:** November 5, 2007

**Inspector:** Matthew Creighton

**Location:** Segment 1a – Scovill Rock Switching Station to Chestnut Junction, Oxbow Junction to Beseck Switching Station (excluding Royal Oak Bypass), and Black Pond Junction to Beseck Switching Station

**Rainfall:** 0.18” of precipitation was recorded in the week prior to the inspection (NOAA data at Meriden, CT). Some portions of the route were observed in rainy conditions on 11/6/07

Areas of Inspection	Observation	Recommended Action	Corrected Action
Access roads and adjacent roadways  Most work areas (including Oxbow Junction, Black Pond, Black Walnut Dr., Contractor Receiving Yard, Valley View Dr., Rte. 157, High Hill Rd., East Main Street and Fleming Rd.)	Access roads and stone tracking pads are in place at the ROW entrance in these locations. Associated roadways are free of project related sediment at this time. 11/5/07	Continue to sweep roadways and refresh stone as needed. Clean existing controls in CBs as necessary. 11/5/07	Not Applicable (NA)
Scovill SS west to Chestnut Junction  Scovill SS to Rte. 9 Rte. 9 to East Mount Rd.	Access road and pads are in place in these sections. Culverts are in place at some of the wetland crossings with minimal flow noted in the streams. Timber mats are in place at stream/wetland crossings here. Several timber mat stream crossings remain at the old access road east of Scovill SS. 11/5/07	Sweep Freeman Road and Rte 9 as needed. Monitor wetlands around the site for run-off. Controls should be added as needed to protect sensitive areas. Monitor mats for sediment accumulation. 11/5/07	NA
	Slight turbidity remains in the wetland following run-off noted at one culverted crossing off Shumpike Rd last week. However, water bars had	Continue to monitor for effectiveness of the diversions and add fiber rolls or controls along the access road as needed upgradient from	Water bars were installed.

Areas of Inspection	Observation	Recommended Action	Corrected Action
<p>Oxbow Junction to Beseck SS</p> <p>Haddam Quarter Rd. (Oxbow Junction); Johnson Ln; Foot Hills Rd.; Arbutus Street; Little Ln.; Cherry Hill Rd.; Elihu Dr.; Rte. 157 (west) Private Driveway; Valley View Dr.;</p>	<p>been installed along the access road slope. 11/5/07</p> <p>Access roads and pads are in place along the majority of this section of ROW. Timber mats are in place at wetland crossings. Controls remain at all wetlands and no issues have been noted. 11/5/07</p>	<p>crossings. 11/5/07</p> <p>Continue to add controls where needed, i.e. mulch, check dams, silt fence, to control sediment and prevent erosion. Sweep roadways as needed. See erosion control section. 11/5/07</p>	<p>NA</p>
<p>Durham Rd</p>	<p>Stone access road/pads are in place to structure # 24521. Timber mats and a culvert remain in place in the wetlands. Access road stone is sinking/ compressing into the wetland in some locations. 9/4-11/5/07 Sediment is migrating/ accumulating over the stone road and pad. 10/9-11/5/07</p>	<p>Sweep Durham Rd. as needed. Provide timber mats to reduce impact if further access is necessary. Contractors are working to determine the status of this road. See wetland section for more details. 11/5/07</p>	<p>Needs evaluation</p>
<p>Durham Rd. to Elihu Dr.</p>	<p>Access roads and pad site installation started within the golf course. 11/5/07</p>	<p>Add controls as needed during access road installation. 11/5/07</p>	<p>NA</p>
<p>East of Beseck SS</p>	<p>The riprap sediment trap east of Beseck SS (and eventually the wetland) is receiving sediment laden stormwater from the access road during periods of heavy rain (noted on 9/11 &amp; again on 11/6). 11/5/07</p>	<p>Continue to monitor. Evaluate and adjust controls to slow and filter stormwater flow. Install controls adjacent to the wetland. 11/5/07</p>	<p>Needs attention</p>
<p>Black Pond Junction to Beseck SS</p> <p>ROW, North of Beseck SS</p>	<p>The original ROW access off Carpenter Ln. is in use. Stone was being installed along the access to prevent sediment tracking onto Carpenter Ln. 11/5/07</p>	<p>Carpenter Lane should be swept on a regular basis. This responsibility falls to 1A contractors. 11/5/07</p>	<p>Stone tracking pad was being installed.</p>
<p>Black Pond Junction to Beseck SS</p> <p>ROW, North of Beseck SS</p>	<p>Water bars and haybales along the access road are deteriorating but grass growth and vegetation is helping to reduce erosion</p>	<p>Continue to monitor and adjust controls as needed. Regrade access road as needed. 11/5/07</p>	<p>Area needs regular attention.</p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
<p>South of High Hill Rd. crossing (vicinity of East Meriden SS)</p> <p>Black Pond and East Main St.</p>	<p>helping to reduce erosion and filter stormwater. 11/5/07</p> <p>Access road crosses several streams and wetlands in this section. 11/5/07</p> <p>Timber mats and sediment remain in place over the riprap stream bypass following active work here. 11/5/07</p> <p>Sediment tracking was not observed on these roadways this week. 11/5/07</p>	<p>Monitor area for run-off and add controls as needed. 11/5/07</p> <p>Monitor this area closely as access is directly over the stream bypass. Add more controls as needed. Regrade and stabilize the area as soon as possible. 10/9-11/5/07</p> <p>Continue to sweep roadways where necessary and ensure inlets are protected. 11/5/07</p>	<p>Needs regular attention.</p> <p>Needs to be monitored/evaluated.</p> <p>Roadways were clean.</p>
<p>Foundation and site construction Scovill SS west to Chestnut Junction</p> <p>Oxbow Junction to Beseck SS</p> <p>East Meriden SS South</p> <p>Black Pond Junction to Beseck SS ROW, North of Beseck SS to Black Pond Jct.</p>	<p>No active work was noted in this area this week following installation of foundations and poles. 11/5/07</p> <p>Access road installation has started within the golf course off Durham Rd. 11/5/07</p> <p>Crews were performing line work, via helicopter, off Beseck Mt. 11/5/07</p> <p>Crews were working on line connections at several poles. 11/5/07</p> <p>Crews were delivering structures north of High Hill Rd. 11/5/07</p> <p>Site grading was underway at Black Pond Jct. Foundations have been installed from Black Pond Jct. to E. Meriden SS. 11/5/07</p>	<p>Monitor and add controls as needed. See erosion control section. 11/5/07</p> <p>Add controls as needed as work progresses. 11/5/07</p> <p>Monitor and add controls as needed. 11/5/07</p> <p>Monitor controls when working near/in resource areas. 11/5/07</p> <p>Monitor controls when working near/in resource areas. 11/5/07</p> <p>Carefully monitor work around wetlands. See erosion control section. 11/5/07</p>	<p>NA</p> <p>NA at this time</p> <p>NA</p> <p>NA</p> <p>NA</p> <p>Foundation installation complete.</p>
<p>Erosion and sediment controls</p>	<p>Upgraded access road in place with culverts at</p>	<p>Continue to add controls along access road</p>	<p>Continue to evaluate</p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
Scovill SS west to Chestnut Junction Rte. 9 to East Mount Rd.	streams. Grass growth noted at recently seeded areas. Timber mats, silt fence, and filter socks remain along the access road and at wetland crossings. 11/5/07	upgradient from wetlands to filter run-off and prevent turbidity. The area has high flow during heavy rains. Watch for sediment accumulation on the mats 11/5/07	
Shumpike Rd.	Slight turbidity was noted in the wetlands here due to last week's run-off. However, water bars were installed along the access road to help alleviate the situation. 11/5/07	Install fiber rolls or controls where needed to prevent turbid run-off from reaching the culvert. 11/5/07	Water bars were installed.
Oxbow Junction to Beseck SS Oxbow Jct. To Arbutus Street	Controls (Haybales, filter socks) were filtering water as it leaves the site, including at the turn onto the ROW and along the pond. 11/5/07	Monitor controls and adjust as needed. Add controls as needed upgradient from wetlands. 11/5/07	NA
Black Walnut Dr.	An eroded washout was noted on the steep slope of the last pad site upgradient from Ball Brook despite past controls. 10/15-11/5/07	Adjust controls to protect the resource area downgradient. Consider an erosion control blanket if necessary to stabilize the slope and establish vegetative cover as soon as possible. 10/15-11/5/07	Needs attention
	The small deteriorated section of silt fence along the ROW has been repaired. 11/5/07	Continue to monitor controls and replace as needed. 11/5/07	Silt fence was repaired.
Contractor Receiving Yard and Storage Area	Silt fence and fiber rolls are in place at the perimeter of the yard and drainage areas/swales but several areas need repair. 4/23-11/5/07	Continue to add, maintain, and monitor controls as necessary. Repair deteriorating controls. 4/23-11/5/07	Needs repair when feasible. Existing vegetation helps contain/filter the area.
South of Contractor Yard Along Rte. 17 and Little Lane	Silt fence typically filters turbid run-off here before it leaves site. Timber mats are in place at the crossing and areas remain seeded. 11/5/07	Monitor and reinforce controls to ensure they adequately filter run-off. Monitor for stabilization. 11/5/07	NA
Durham Rd.	Timber mat/stone access road crossing is in place	Some controls have been added, but additional	Needs to be monitored

Areas of Inspection	Observation	Recommended Action	Corrected Action
<p>Rt 157 (east &amp; west) &amp; Elihu drive</p>	<p>west of Durham Rd. Some controls are in place including fiber rolls adjacent to the stone pad at structure # 24521. 11/5/07</p>	<p>controls may be needed here. 11/5/07</p>	
<p>Powder Hill Rd.</p>	<p>Controls were in place along pad sites. 11/5/07.</p>	<p>Continue to monitor until final stabilization is achieved. 11/5/07</p>	<p>NA</p>
<p></p>	<p>Numerous controls remain in place along the access road. Filter socks and haybales remain upgradient of the stream and pond (both sides) at the base of slope. Sediment accumulation has occurred at the controls. 8/20-11/5/07</p>	<p>Remove sediment accumulated around the controls and vegetation. Stream crossings/culverts are temporary and will be removed at the end of the work. Turbid run-off has not been noted recently however, area should be monitored during large storms. 11/5/07</p>	<p>Some controls are working well but sediment accumulation needs proactive attention/evaluation when feasible.</p>
<p>East of Beseck SS</p>	<p>With the exception of access roads, vegetative cover has re-established completely along the slopes of Beseck Mtn. Controls along the access roads have deteriorated however; vegetation appears to filter almost all of the run-off. Wetlands adjacent to the pond do contain some sediment but vegetation has established over the sediment, stabilizing the area. 11/5/07</p>	<p>Controls should be maintained along the access road as needed especially around wetlands. Minimize impacts to the vegetative cover to the extent feasible during line work. Remove and stabilize the access road upon completion of work to provide final restoration for the site. 11/5/07</p>	<p>Controls need maintenance along the access road.</p>
<p></p>	<p>A pad remains in place up-gradient from the wetlands and drilling is complete (as of 10/22). Erosion controls provide sufficient coverage in the area following the breach. 11/5/07</p>	<p>Monitor new controls and adjust as needed. Watch timelines for restoration. Areas should be temporarily stabilized when work will not return in 21 days (per D&amp;M). 11/5/07</p>	<p>Restoration needed within timelines.</p>
<p></p>	<p>The temporary lay-down area adjacent to wetlands and BSS remains graded and seeded. 11/5/07</p>	<p>Monitor controls and exposed areas for vegetative cover and until stable. 11/5/07</p>	<p>NA at this time.</p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
West of Beseck SS	The area west of Beseck SS remains mulched and seeded. The stockpile has been moved to the edge of the road to allow vegetation to establish on the slope. Haybales were removed from across the site entrance. 10/9-11/5/07	Replace haybales at the entrance, especially with the remaining active stockpile. Continue to monitor until final stabilization is achieved. Adjust controls as necessary. 10/9-11/5/07	Needs some minor follow-up.
Black Pond Junction to Beseck SS ROW, North of Beseck SS to East Meriden Substation	Vegetative growth continues on the slopes upgradient from wetlands near structure #24450 11/5/07  Some pad sites north of Beseck remain graded and seeded. 11/5/07	Continue to monitor the exposed areas until it is stabilized. 11/5/07  Continue to monitor for final stabilization and cover. 11/5/07	Vegetative cover continues to establish.  NA at this time.
Fleming Road	A line of haybales surrounded by two lines of silt fence is in place. Adjacent slopes remain mulched for stabilization. 11/5/07	Monitor, adjust, and extend controls as needed. Continue to remove sediment from controls as needed. 11/5/07	NA
South of High Hill Rd. (vicinity of East Meriden Substation)	A new pad site installed west of the substation contains a steep slope with exposed soils. 9/24-11/5/07  The foundation is in place above the riprap stream channel bypass. The area appears contained. Controls are in place around the pad. 11/5/07	Stabilize the slope with seed/mulch and add controls as necessary to slow/filter stormwater flow. 9/24-11/5/07 Consider erosion control blankets if run-off is an issue. 10/15-11/5/07  Monitor this area closely as the site is still disturbed and adjacent to a stream. Consider filling the bypass channel if no longer needed to remove a potential sediment source to the stream. Stabilize the area as soon as work is complete. 10/15-11/5/07	Needs attention.  Restoration needed within timelines.
South of High Hill Rd.	Foundation installation complete (as of 10/29). A large, disturbed area was noted upgradient from wetlands. Controls were	Add controls around the pad. Watch timelines for restoration. Areas should be temporarily stabilized when work will not	Needs attention.



Areas of Inspection	Observation	Recommended Action	Corrected Action
<p>Oxbow Junction to Beseck SS Contractor Storage Yard</p>	<p>Perimeter controls are deteriorating in spots and should be repaired. 5/14-11/5/07</p>	<p>Continue to monitor and adjust/repair controls as needed around the site. 11/5/07</p>	<p>Controls need attention.</p>
<p>Durham Rd.</p>	<p>Sediment migration/accumulation was noted over the stone road and pad. More controls may be needed here. 10/9-11/5/07</p>	<p>If further access is needed in this area, mats should be installed. BSC will discuss the area further with the contractors. 10/9-11/5/07</p>	<p>Needs evaluation.</p>
<p>Powder Hill Rd.</p>	<p>Several smaller streams remain culverted. Some accumulated sediment from past heavy rains has been noted in wetland areas however, vegetation was noted growing on top of the sediment. 11/5/07</p>	<p>All crossings are temporary and will require restoration at the end of the work. Where exposed sediment is greater than 2", it should be removed carefully by hand from the wetland. 11/5/07</p>	<p>Needs evaluation/attention when access is complete.</p>
<p>East of Beseck SS</p>	<p>A pad is in place just upgradient from wetlands here. Sediment and stone/soil from the old pad remain in the wetlands. 10/22- 11/5/07</p>	<p>Remove any stone/soil accumulation in the wetlands during final restoration of the site. This should happen before vegetation establishes further, reducing the possibility that material will be removed. 10/22-11/5/07</p>	<p>Controls repaired but additional attention is needed in the wetland.</p>
<p>Black Pond Junction to Beseck SS Fleming Rd. High Hill Rd. South to East Meriden Substation and north to Black Pond</p>	<p>The stream at structure 24415 (near East Meriden Sub) had previously been re-routed through a riprap channel and culvert. Timber mats remain over the riprap channel for foundation 24464 on the final line. Controls are in place around the area. Adjacent areas including the restored stream are seeded, with grass growth but are not yet stable. 11/5/07</p>	<p>Monitor controls closely as work was performed adjacent to the stream. Continue to monitor the area until vegetative cover has fully established. Perform final restoration in all areas when feasible. 11/5/07</p>	<p>Needs to be monitored.</p>
	<p>Timber mats remain within the wetland south and north of High Hill</p>	<p>Monitor controls and stabilize soils as soon as possible. See erosion</p>	<p>NA</p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
	<p>Rd. Areas of exposed soil are present adjacent to wetlands due to the recent work. 11/5/07</p> <p>Grading is occurring adjacent to wetlands at Black Pond Jct. 11/5/07</p>	<p>controls section. Stabilize in accordance with D&amp;M timelines. 11/5/07</p> <p>Continue to monitor carefully and reduce impacts to the extent feasible. 11/5/07</p>	<p>Continue to monitor</p>
<p>State species of concern, threatened and endangered species.</p> <p>Multiple ROW areas including: Scovill SS; Haddam Quarter Rd. To Foot Hills Rd.; Johnson Lane; Powder Hill Rd.; Contractor Storage Yard Pond; East of Beseck SS</p>	<p>Potential habitat for wood turtles exists at Ball Brook in this section. Contractors have avoided crossing this area through the access road in from Black Walnut Dr. The final pad and structure on this line is installed upgradient from the habitat. 11/5/07</p> <p>A variety of wildlife has been noted in and adjacent to the majority of wetlands in the ROW at access and work areas. Turtles, frogs, fish, salamanders, tadpoles, several different types of egg masses, deer, small mammals, coyote pups and wild turkeys have been observed during past inspections. These are not state listed species, but indicate good habitat. 11/5/07</p>	<p>November 1<sup>st</sup> was the start of the wood turtles dormant season; Sweeps at this last pad can cease until the active season begins in April. 11/5/07</p> <p>Continue to be very mindful of controlling sediment and reducing access near wetlands used for amphibian breeding. Also monitor controls for effectiveness and be mindful that the controls can block foraging/migrating wildlife. 11/5/07</p>	<p>NA at this time.</p> <p>Continue to monitor</p>
<p>Vegetative clearing or stabilization</p> <p>ROW west of Scovill Rock SS to Chestnut Junction Powder Hill Rd.; Little Lane; Durham Rd; Black Walnut Dr; Valley View Dr.; Rte 157;</p> <p>Rte. 9 to East Mount Rd.</p>	<p>The clearing that had been performed is largely complete in these areas. Some pad sites are along slopes and may have issues with erosion during heavy rains. Most disturbed soil areas have been mulched and seeded as needed. Grass growth noted in many areas. 11/5/07</p> <p>Clearing and grading appears complete in this</p>	<p>Retain species approved by the D&amp;M plan wherever feasible. Continue to stabilize areas and monitor for vegetative cover. 11/5/07</p> <p>Add controls as needed along slopes and stabilize</p>	<p><i>In all areas, be aware of limits of clearing and stick to the specifications of the D&amp;M plan</i></p> <p>Grass growth and natural revegetation noted in many areas.</p> <p>NA at this time</p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
<p><b>Black Pond Junction to Beseck SS.</b></p> <p><b>North of East Main Street</b></p>	<p><b>section. Mulch remains in place on steep slopes. 11/5/07</b></p> <p><b>Some of the existing pad sites from the first line installation remain restored/ seeded and mulched. 11/5/07</b></p> <p><b>Slopes above the new foundation have been mulched and seeded. Some large areas of exposed soil remain adjacent to wetlands in nearby sections due to recent foundation work. 11/5/07</b></p>	<p><b>areas as soon as possible. 11/5/07</b></p> <p><b>Continue to restore and stabilize old pad sites and work areas that will no longer be needed or active, prior to crews leaving an area. If work activities will not return in 21 days, temporary stabilization is needed. 11/5/07</b></p> <p><b>Maintain controls and monitor for vegetative growth. If work activities will not return in 21 days, temporary stabilization is needed in the remaining areas. 11/5/07</b></p>	<p><b>Needs regular attention.</b></p> <p><b>Some disturbed areas were mulched/seeded.</b></p>
<p><b>Dewatering Oxbow Junction to Beseck SS</b></p> <p><b>Black Walnut Dr.</b></p> <p><b>East of Beseck SS.</b></p> <p><b>Black Pond</b></p> <p><b>Black Pond Junction to Beseck SS</b> <b>North of Beseck SS to East Meriden Substation, Fleming Rd.</b></p>	<p><b>Several settling basins remain off Black Walnut Dr. 11/5/07</b></p> <p><b>Settling tank was used during drilling to contain slurry. 11/5/07</b></p> <p><b>Dewatering was complete at the new foundation. Pump truck and settling tanks were used. 11/5/07</b></p> <p><b>Dewatering basins remain in place at the pad sites. 11/5/07</b></p>	<p><b>Continue to use settling basins as needed. Monitor capacity of the basin when in use. Restore areas when work is complete. 11/5/07</b></p> <p><b>Add controls as needed. Continue removing sediment from the site. 11/5/07</b></p> <p><b>Monitor and add additional controls as needed. 11/5/07</b></p> <p><b>Continue to monitor adjust controls as necessary. Re-use existing basins whenever possible for final line construction to reduce disturbance. Restore areas whenever feasible. 11/5/07</b></p>	<p><b>NA</b></p> <p><b>NA.</b></p> <p><b>Dewatering complete and slurry was contained.</b></p> <p><b>NA at this time.</b></p>
<p><b>Blasting</b></p>	<p><b>No blasting is proposed. 11/5/07</b></p>	<p><b>None 11/5/07</b></p>	<p><b>NA</b></p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
Spills, soils and material storage All active areas	Spill controls move from site to site with the equipment. 11/5/07	Always use spill control materials when working on equipment and during refueling. Park equipment 100 feet from wetlands when feasible 11/5/07	NA
	Concrete washout containment was noted in the form of lined, dug basins in several locations. 11/5/07	Provide appropriate containment for washouts. Be especially careful of concrete containment near wetlands. Remove the material once work is complete. 11/5/07	NA at this time.
Oxbow Junction to Beseck SS Contractor Receiving Yard and Staging Area	Materials are being stored and structures staged in this area. Fuel tanks are not present. 11/5/07	Continue to locate hazardous materials and equipment away from wetland inlets such as culverts and CBs. 11/5/07	NA
Black Pond Junction to Beseck SS	Some equipment and supplies are being stored here. A large spill kit is stored onsite. 11/5/07	Always store equipment and supplies away from sensitive areas. Monitor and maintain equipment as needed and provide housekeeping on a regular basis. 11/5/07	NA at this time
	Equipment noted parked adjacent to wetlands south of East main St. has been removed. 11/5/07	Keep equipment parked 100-feet from wetlands when feasible. 11/5/07	Equipment was removed.
Additional Observations	None. 11/5/07	None. 11/5/07	NA

Next likely scheduled inspection:

Monday November 12, 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: Matt Creighton, BSC Group

Reviewer: Diana Walden, BSC Group



**Shumpike Rd: Controls are in place along a timber mat bridge crossing.**



**Shumpike Rd: Water bars installed along the access road upgradient from the wetland crossing. Slightly turbid water remains in the wetlands.**



**Black Walnut Dr: Ruts and erosion noted along a steep slope on the last pad site upgradient from Ball Brook. Regrade and stabilize; consider adding an erosion control blanket due to the grade.**



**East of Beseck SS: Stormwater flowing off site along the access road during heavy rains on 11/6/07**



**East Meriden SS: Pad site at the edge of a steep slope needs controls.**



**N. of High Hill Rd: Crews were delivering structures. More controls needed upgradient from wetlands.**



**South of East Main St: Large, disturbed soil area located upgradient from wetlands. Controls are needed here. Grade, remove stone, and temporarily stabilize the soils if work will not return in 21 days.**



**North of East Main St: Disturbed area located within the wetlands as a result of construction. Controls are in place and working well. Area upgradient from foundations has been mulched and seeded. Temporarily stabilize area adjacent to foundations if work will not return in 21 days.**