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.

Beseck Switching Station Inspection

Date: **February 27, 2007**

Inspector: **Matthew Creighton**

Location: **Beseck Switching Station**

Rainfall: **0.77" of precipitation was recorded between 2/22 and 2/27, with 0.35" of the total reported on 2/26 (NOAA data at Meriden, CT).**

Areas of Inspection	Observation	Recommended Action	Corrected Action
Access roads and adjacent roadways	All traffic to the site is using the driveway on the east side. Recent improvements to the stone access pad and detention swale have reduced suspended sediment in stormwater but minor amounts of turbid run-off were again observed leaving the site and reaching the roadway. 2/21-2/27/07	Continue to monitor and evaluate during larger storm events. Adjust controls as necessary. Efforts have been good but warmer temperatures are leading to run-off again. 2/21-2/27/07	Adjust controls if necessary. Needs regular attention.
	Carpenter Lane was free from project related sediment tracking. Gutters had accumulated sand from town snow removal and some turbid run-off from the site. 2/27/07	Clean/sweep roadway regularly, including the gutters by hand if necessary. 2/27/07	Provide regular attention.
	The site entrance near the Old Zolnik driveway has been closed in an effort to reduce site run-off. A stone water bar was installed across the drive to slow, filter and divert run-off. Haybales were also installed across the entrance to filter any	Monitor new controls for effectiveness, especially when snow cover melts. Add/adjust controls as necessary. Good efforts were noted. 2/27/07	Good efforts were noted. The entrance was closed to traffic and a new water bar and haybales were installed to control run-off.

Areas of Inspection	Observation	Recommended Action	Corrected Action
Access roads and adjacent roadways (continued)	**remaining sediment. With new controls and snow cover, no run-off was observed leaving the site. 2/27/07**		
	The CB within the entrance drive cannot be sealed yet so a drainage ditch was installed to prevent turbid water from flowing into the storm-water system. 2/27/07	**CB will be sealed during final grading. Continue to monitor existing controls. 2/27/07**	**A drainage ditch was added to prevent water from reaching the system.**
	Even though sediment accumulation is partially due to town sanding activities, CB liners along Carpenter Lane should be cleaned. Town plowing and sanding required removal of gutter buddies (filter socks) but site-related turbid run-off is flowing through one of the curb drop inlets. 2/27/07	**Clean and maintain liners and controls. If feasible, replace gutter buddies if weather permits and remove only for plowing. 2/27/07**	**Needs regular attention. Replace gutter buddies when feasible.**
	Standing water has evaporated or filtered out and sediment appears contained within the sediment trap at the culvert under the ROW access road. 2/27/07	**This area will still require regular attention by all contractors (BSS and Segment 1A) to ensure water does not ever spill-over the trap. Maintain basin/ trap and haybales at the outlet when necessary. 2/27/07**	**Not Applicable (NA).**
Foundation and site construction	**Minor grading continues as needed. The majority of the site is at finished grade. 2/27/07**	**Erosion controls need to be adjusted as grading changes, especially at catch basins on site. 2/27/07**	**NA**
	Excavations for foundation work continue within the site, resulting in small soil stockpiles. Contractors are setting rebar, pouring concrete, and regrading soils. Chain link fence installation is almost	**Concrete washouts are being conducted within the excavations. Continue to monitor and control soil stockpiles at new excavations as needed. 2/27/07**	**NA**

Areas of Inspection	Observation	Recommended Action	Corrected Action
	complete. 2/27/07		
Erosion and sediment controls	**Perimeter silt fence along the east side of the site is secure and well-maintained. 2/27/07**	**Continue to inspect and maintain silt fence throughout site and repair as needed. 2/27/07**	**NA**
	Plows have knocked down the silt fence along Carpenter Lane. Adjacent area is stable, no erosion noted. 2/27/07	**Silt fence needs repair to the extent feasible (however, adjacent areas are not exposed or contributing to run-off). 2/27/07**	**Repair if necessary.**
	The site entrance (west side) was closed and new controls were added to reduce turbid run-off from leaving site. Snow cover also helps. 2/27/07	**Monitor controls for effectiveness, especially when snow melts. Stabil-ize remaining areas when feasible. See Access Roads and Adjacent Roadways. 2/27/07**	**New controls have been added and no run-off was noted.**
	Filter fabric and numerous haybales remain in place over and around the drain inlets in the permanent detention basins. Snow cover is also present and helps to stabilize. 2/27/07	**Continue to monitor and replace haybales as needed within the detention basins. See dewatering section for more information. 2/27/07**	**NA**
	The storm water outlet pipe at the wetland across Carpenter Lane has several layers of haybales in place to help filter turbid water. Ice/snow was observed within the culvert outlet. Water flowing into the wetland was clear and free of sediment. In general, sediment from the site is very fine and difficult to filter but increased efforts on site appear to have helped. 2/27/07	**Haybales should be monitored and replaced as needed at the storm drain outlet. Stormwater should continue to be contained and filtered before leaving the site. Continue addressing stormwater issues at the source. Good efforts were made on site as only a minor amount of sediment was noted leaving the site through the east side entrance/exit 2/27/07**	**The quality of stormwater was improved as good efforts were made on site.**
Inland Wetland and Watercourse encroachment and mitigation	**Clear water was leaving the outlet across Carpenter Lane. Ice and snow cover was present in the wetlands. Small**	**Several areas have sediment accumulation. Sediment should be removed from the outlet and adjacent areas when**	**Continue to evaluate and add controls as needed. Improvements were made at the source of**

Areas of Inspection	Observation	Recommended Action	Corrected Action
	channels of water can be observed through the snow cover and appear free of sediment. 2/27/07	**water levels recede 12/26/06- 2/27/07. It will be evaluated whether the accumulation justifies the minor disturbance required to remove it. 1/23-2/27/07**	**the stormwater on site**
	A timber mat staging area is in place in the wetlands on east side of site. 2/27/07	**These activities are covered in the Segment 1a inspection report. 2/27/07**	**Not jurisdictional to this D&M plan.**
State species of concern, threatened and endangered species.	**According to the D&M plan, state-listed species are not located in this work area.**	**None. 2/27/07**	**NA**
Vegetative clearing or stabilization	**Most exposed soil surfaces around the site, which are not currently active, are hydroseeded (including a tackifier) to promote stabilization until grass growth can establish in the spring. This includes the slopes of the detention basins. 2/27/07**	**Continue to place hay mulch (or similar) for temporary stabilization, and closely monitor detention basin slopes. Monitor site closely, especially during warmer temperatures; snow melt and ground thaw increase sedimentation. Regrade any erosion (gullies) in the spring. 2/27/07**	**NA**
	Erosion control mats are in place on steep slopes. Some areas were at final grade and crushed stone base was installed at work trailer locations. 2/27/07	**Continue to reduce areas of exposed soil where work is not actively occurring or not expected to occur for more than 14 days (including soil stockpiles). 2/27/07**	**NA**
Dewatering **(***As of 1/12/07 contractors stated: the detention ponds will be monitored during rain events and spring thaw to ensure that neither pond reaches capacity. Water will be pumped to the larger pond and then to the frac tank if any component of the system is reaching capacity.)*	**When dewatering is needed to remove rainwater from foundation pits, the turbid water is being pumped into two frac tanks on site in order to settle. Clean water will be released to the controlled CBs within the detention basins onsite. 2/27/07**	**When dewatering is required, pumping must be monitored to avoid, overwhelming controls, or increasing sediment in the basins. Clean water from the frac tank can be pumped directly into the controlled CBs in the detention basins as long as water is released slowly. This will prevent overwhelming controls and forcing sediment, from the stormwater**	**Continue to evaluate controls for effectiveness.**
	Dewatering has not been necessary in the past few weeks due to lack of rain		

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Dewatering (continued)	**and frozen ground conditions. 2/27/07**	**system into the wetlands at the outlet. 2/27/07**	
	Muddy River, located a distance down gradient from the wetland across Carpenter Lane, is also being monitored. At this time no turbidity from the site appears to have reached Muddy River. 2/27/07	**Continue to monitor and evaluate Muddy River during rain events and dewatering activities. Reinforce and improve controls on site as needed. 2/27/07**	**NA**
Blasting	**All blasting was complete as of 9/7/06.**	**None. 2/27/07**	**NA**
Spills, soils and material storage	**All remaining soil on site will be used as fill in construction activities. 2/27/07**	**Soils appear to be handled appropriately. 2/27/07**	**NA**
	A few small stockpiles resulted from the foundation excavations. 11/20/06-2/27/07	**Install controls for the stockpiles where/if needed. 11/20/06-2/27/07**	**NA**
	Spill cleanup materials were available on site and are being used and restocked as needed. 2/27/07	**Always use spill control materials when working on equipment and during refueling. 2/27/07**	**NA**
Additional Observations	**Non-project related vehicles used the old access road to the ROW and took out some silt fence. 1/27/07**	**Although activities were non-project related, repair controls if necessary. 1/27/07**	**NA**

Next likely scheduled inspection: **Tuesday March 6, 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: *Matthew Creighton, BSC Group*

Reviewer: *Diana Walden, BSC Group*

Site entrance/exit off Carpenter Lane is at final grade; erosion controls are intact along the driveway. Minor amounts of turbid run-off were noted reaching the roadway.

View of Carpenter Lane and retaining walls. Sand accumulation was noted along the gutters from town sanders but is not a result of the project. However, catch basins controls could use maintenance.

Haybales were placed across the closed site entrance (west side) in an effort to reduce turbid run-off from the site. A small detention area was also constructed. Snow cover also helps to stabilize the area; continue to monitor during thaw periods.

Surface areas on site are temporarily stabilized with snow cover. Haybales and controls remain in place at the inlet of the detention basin.

Photos by BSC Group

Another view of the closed site entrance where a water bar was installed in an effort to divert turbid run-off from leaving the site.

View of the culvert under the new access road. Turbid water from last week has since filtered out of the trap. Sediment appears containe within the trap.

Storm drain outlet across Carpenter Lane has clear water flowing through the haybales. Ice and snow cover were observed in the culvert and wetlands. The majority of sediment appears to be retained onsite.

Snow and ice cover made observation difficult in the wetlands across Carpenter Lane. Clear water was observed leaving the haybales and entering the wetlands. Evaluate whether the amount of sediment accumulation justifies the minor disturbance needed to remove it, once the water subsides.

Photos by BSC Group