

Docket No. 217 – Development and Management Plan Inspection

Northeast Utilities Service Company Certificate of Environmental Compatibility and Public Need for the construction of a 345-kV electric transmission line and reconstruction of an existing 115-kV electric transmission line between Connecticut Light and Power Company's Plumtree Substation in Bethel, through the towns of Redding, Weston, and Wilton, and to the Norwalk Substation in Norwalk, Connecticut.

Date: December 22, 2005

Inspector: Diana Walden

Location: 345kV Underground Route

Storm/

Rain Event: Approximately 1.05" of precipitation fell mostly in the form of rain on 12/16 as reported by NOAA.

Areas of Inspection	Observation	Recommended Action
Vault Openings and Trench Construction	<ul style="list-style-type: none">- Trenching and pipe installation, continue in several locations off Rt. 7 in Wilton including near #387. 12/22/05- Some of the work near Catalpa Rd. is attributable to other utility work. 12/22/05- Roadwork along Rt. 107, south of the Georgetown Deli has resumed and pipe is being installed along a steep slope above a bridge over the Norwalk River. 12/22/05- Trenching and pipe installation, continued during the day along Umpawaug Road. 10/5-12/22/05- The Horizontal Direction Drill at School Rd. issues with turbid water and the containment are still present. 12/8-12/22/05- The Georgetown Deli J&B experienced another flood event but the trench is being partially backfilled. 12/22/05- Excavation for a vault along	<ul style="list-style-type: none">-Continue providing good "house- keeping" along the roadways. A few spots are ready for restoration. See additional sections for more information. 12/1-12/22/05-None at this time. See other sections for more information 12/22/05-Some controls were needed. See additional sections for more information. 12/22/05Turbid water as a result of drilling needs attention here. There is a large amount of exposed surfaces as well. See additional sections for more details.12/8-12/22/05- This area looks mostly well contained, but see additional sections for more details. 12/22/05

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	the Archers Lane access road is complete. 12/22/05	- None at this time. 12/22/05
Erosion and Sediment (E&S) Controls (includes inspection within 24 hours of a storm event) continued	<ul style="list-style-type: none"> - The settling basin at the old HS J&B has been backfilled as recommended. However, stone and haybales remain at the streambank and the silt fence has some gaps. 12/22/05 	<ul style="list-style-type: none"> - The silt fence needs to be toed in and repaired as soon as possible and the stone/haybale pile will eventually need to be removed. 12/22/05
Route 7	<ul style="list-style-type: none"> -Underwater sediment accumulation was still noted in the stream in several locations. This should be removed before spring flows disperse it downstream. 11/10-12/22/05 	<ul style="list-style-type: none"> -The least impacting way to remove the sediment is likely by hand/shovel. It should be done carefully and with the instream controls in place. 11/10-12/22/05
	<ul style="list-style-type: none"> - At the HDD, the detention area continued to receive turbid water and mud, directly due to wash from the bore operation. 12/14-12/22/05 - Water levels in the basin are increasing and the basin was not cleaned out as discussed. 12/22/05 	<ul style="list-style-type: none"> - Mud is still escaping the bore in the area of the basin due to a lack of structure created when the area was previously excavated. 12/14-12/22/05. -It was determined that a lined area would be constructed and the mud from the basin would be excavated to this daily and removed to Danbury. 12/14-12/22/05
	<ul style="list-style-type: none"> -A large amount of rutted and disturbed soil is present on site which can create turbid run-off and equipment access will continue to make matters worse. 12/22/05 	<ul style="list-style-type: none"> - We recommend placing swamp mats for equipment accessing the basin for future clean-outs or other movement on site, in order to provide additional stabilization and prevent future disturbance. If mats are not financially feasible, consider temporary stone on fabric. 12/22/05
	<ul style="list-style-type: none"> - Disturbed soil was also noted to the west of the basin, beyond the areas encompassed by the basin. 12/22/05. 	<ul style="list-style-type: none"> -Toe-in the fence as soon as there is a period of thaw to prevent run-off from the disturbed area getting to the wetland. 12/14-12/22/05
	<ul style="list-style-type: none"> - Silt fence was installed across the connection to the eastern wetland but could not be toed in due to frozen ground. 12/14-12/22/05 	<ul style="list-style-type: none"> -Watch and improve condition of controls around the basin. 12/8-12/22/05
	<ul style="list-style-type: none"> - Some internal E&S controls near the basin were degraded where the silt fence is down and haybales pushed over. 12/8-12/22/05 	<ul style="list-style-type: none"> - Continue to monitor activity
	<ul style="list-style-type: none"> - The roadside swale at the 	

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Route 7 continued	storage area near #848 (Rt.7) does not have controls in place mostly due to landowner activity. Project controls in the back of the yard are also affected. 12/8-12/22/05	in here. Most of the work is due to the landowner. Watch placement of project materials in the vicinity of this roadside swale. 12/8-12/22/05
Rt. 107 Daywork	<ul style="list-style-type: none"> - The J&B operation at the Georgetown Deli appears mostly contained following another flood event. Filter fabric was placed on an adjacent catch basin. 12/22/05 -The silt fence at the base of the dewatering outlet had been washed out due to the storm. The stream was flowing slightly turbid at this time but an obvious source was not identified. 12/22/05 - Active trench work/pipe installation was occurring on a slope above the Norwalk River. Silt fence was in place. 12/22/05 	<ul style="list-style-type: none"> - Continue to monitor and maintain controls adjacent to the stream . 12/22/05 - Continue to perform regular filter changes and monitoring during non-active work hours as stated by NU to the siting council. 12/1-12/22/05 - The silt fence should be reinstalled. Sandbags were also installed along the stream bank at the receiving side following the flood. 12/22/05 - None at this time but monitor the status of fence and controls here carefully due to the steep grade and river below. 12/22/05
Umpawaug Rd.	<ul style="list-style-type: none"> -Active trenching work had moved towards Diamond Hill Rd. and swales were placed with haybales and silt fence. Some sedimentation was observed. 12/22/05 - Controls were installed in the wet swale near #144 as recommended. Adjacent bare soil is still present here on the bank cuts between #134-#144. 12/22/05 - Another work area near #79 resulted in sediment and turbid water migrating through a swale to adjacent wetlands. Haybales had been installed at the inlet of the swale but it was not enough to prevent the issues. 12/22/05 	<ul style="list-style-type: none"> -The disturbed soil should be restored to the extent feasible now that work is complete. 12/22/05 - Haybales were placed at the outlet in an attempt to filter additional water at BSCs request. If the sediment can be shoveled out without further damage to the wetland, it should be done. 12/22/05

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	<ul style="list-style-type: none"> - Across the road from #79, a gully has formed leading down the recent bank work to the stream. 12/22/05 - Sediment was noted across the roadway. Make sure this is being swept on a regular basis. 12/8-12/22/05 	<ul style="list-style-type: none"> - Haybales should be installed here as a temporary solution. 12/22/05 -Street sweep/hand sweep as necessary. 12/22/05
Adjacent Wetlands and Waterways	<ul style="list-style-type: none"> -At the jack and bore near Allens Meadow Park, the stream had some remaining accumulated sediment under the water which needs to be removed. 11/10-12/22/05 -The stream at the Georgetown Deli jack and bore was running slightly turbid following the flood event here. 12/22/05 - Bubbling, apparently from a ground fracture, was noted in the wetlands beyond the HDD site. An observable deposit of sediment had occurred into a channel adjacent to the Norwalk River. A line of coloration was noted. 12/14-12/22/05 	<ul style="list-style-type: none"> - Hand shoveling or careful vac-truck use are likely the best solutions with instream controls in place. This needs to happen before spring rains disperse it. 10/27-12/22/05 - Contractors state that they have been performing filter changes on a regular basis to prevent turbidity. 12/8-12/22/05 - Contractors were to watch this spot carefully as well as clean up all deposited sediment. They were also going to install haybales at the confluence of the channel and the river. This has not been done yet. 12/14-12/22/05
Staging, Storage, and Parking Areas	<ul style="list-style-type: none"> - The silt fence at the equipment storage yard located on property south of the Rt. 7 &107 intersection is down in a few locations. Landowner activities continue here. 11/23-12/22/05 -The overall condition at School Rd. HDD area includes a lot of bare, exposed soil and turbid washwater. Stabilization is needed here for equipment movement as well. 12/14-12/22/05 	<ul style="list-style-type: none"> - In general, materials should be placed appropriately in storage areas or immediately adjacent to work each night. No potentially spillable materials should be left behind or out overnight. 12/22/05 - Take care with materials or disturbance too close to the swale by Rt.7. 12/22/05 -Determine how to contain the area better. A lined area still needs to be created for daily excavation of the basin or it can be removed straight to Danbury. 12/14-12/22/05

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	<ul style="list-style-type: none"> - The racquet club storage yard has been very active with a lot of materials. Make sure inlets here are protected. 10/27-12/22/05 - The CL&P yard had a slight sag in the silt fence near the stockpile but all other controls were good. 12/22/05 	<ul style="list-style-type: none"> - Keep within the limits of the yard and don't encroach into the brush. 10/27-12/14/05 - Make sure the fence is in good shape before any thaw periods. 12/14-12/22/05
Soils	<ul style="list-style-type: none"> - Most soils adj. to roadways on the project route are being trucked to a waste facility in Danbury for storage and eventual disposal. - Backfill soils are allowed to be stored along Umpawaug Rd. but only for the day. 10/5-12/22/05 (A large amount of disturbed areas/bare soil was noted. 12/14-12/22/05) - Mud will be excavated from the HDD basin to a lined area or directly transported to Danbury as a solution to the turbidity issues here. 12/14-12/22/05 	<ul style="list-style-type: none"> - Soils appear to be handled appropriately. 12/22/05 -In general, if any pile remain longer than the day, controls should be placed. Controls should be placed prior to work when it is adjacent to swales or wetlands. 12/22/05 - This work on containing the basin has been performed yet. 12/14-12/22/05
State species of concern, threatened and endangered species	<ul style="list-style-type: none"> - No species of concern are located in this area of construction. 	<ul style="list-style-type: none"> - N/A
Vegetative clearing limits (including trees to save or danger trees noted)	<ul style="list-style-type: none"> -Snow cover/frozen ground is now a factor in restoration/stabilization attempts. 12/8-12/22/05 - A number of bare bank cuts area present along Umpawaug Rd. 12/22/05 	<ul style="list-style-type: none"> - Attend to disturbed areas as feasible in the appropriate time frames. 11/10-12/22/05
Dewatering	<ul style="list-style-type: none"> -Several frac tanks are still in place at the Georgetown Deli parking lot in order to hold the water from the jack and bore pits here. They have cycled over several million gallons of water since the start of the project. 12/1-12/22/05 	<ul style="list-style-type: none"> - Continue to monitor for effectiveness. The water in the stream was running slightly turbid through the project and downstream at the time of inspection. No direct cause was noted. 12/1-12/22/05

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	<ul style="list-style-type: none"> - The water is filtered through the tanks, sent to a filter bag on a riprap pad and back to the stream. The silt fence has come down due to the recent flood event. 11/23-12/22/05 	<ul style="list-style-type: none"> - Slight turbidity occurs when filters are changed along the system but the silt fence helps to control this. 11/23-12/22/05 The fence needs to be re-installed. 12/22/05 - Contractors have stated that filters are being changed regularly. 12/22/05
Blasting	<ul style="list-style-type: none"> - No blasting is occurring on site at this time. 	<ul style="list-style-type: none"> - None at this time.
Spills and Material Storage	<ul style="list-style-type: none"> - The turbid washwater and sediment containment issues from the bore work are still causing issues here. 12/8-12/22/05 - A small spill (likely from overfueling) was observed below a tank at the HDD site. 12/22/05 - Oily drip spots were noted near the work area near #79 Umpawaug, likely from a leaky concrete truck. 12/22/05 	<ul style="list-style-type: none"> - The basin will be excavated of mud on a regular basis. -It has not been done yet. 12/14-12/22/05 - Affected soil needs to be removed and if this is due to a leak, it needs repair. 12/22/05 - These spots were shoveled up of the asphalt to the extent practicable and disposed of properly. Spill kits were not on hand at the time but always should be. 12/22/05
	<ul style="list-style-type: none"> - In general, make sure that glues, asphalt components and other materials are stored well overnight and not left out along the roadway. 12/14/05 	<ul style="list-style-type: none"> - The contractors should remain vigilant about securing and handling fuel containers. - Continue to keep all vehicles maintained well (i.e. no apparent fluid leaks) if they will be used or stored on site. - Check equipment status on a regular basis and keep spill kits on hand. - Report spills immediately, even if they are being controlled.
Additional Observations		

Next likely scheduled inspection: Friday, December 30, 2005

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.

Inspector's Signature: *Diana Walden*



345kV (Umpawaug Rd Daywork): Silt fence and haybales have been installed along swales and wetland areas near the Diamond Hill Rd. intersection. Some sedimentation buildup was noted near the controls. It should be removed if possible. 12/22/05



View of the wet swale near #144 Umpawaug Rd which had been placed with some haybales and controls as recommended. A significant amount of disturbed bank cuts remain following the completed work. The area should be mulched/restored when feasible. 12/22/05



Photo on the left shows the continued active trench work in the street near #79 and resulting disturbed soil. Photo on the right shows the recently completed work at the vault near #134.

12/22/05



Both photos show a view of where sediment and turbid water migrated through a swale to the adjacent wetland near the work at #79 Umpawaug Rd. The inlet to this swale did have haybales installed but it wasn't enough prevent the sedimentation. 12/22/05



345kV (Georgetown Deli Jack and Bore): Photo on the left shows the receiving pit side where additional sandbags had been installed following the recent rain and flood event. Photo on the right shows where the silt fence at the dewatering outlet had been washed down. The stream was slightly turbid at this inspection. 12/22/05



Photos show views of the bore pit which is currently being backfilled and moving towards completion. 12/22/05



345kV (Rt 107): Photo on the left shows a view of where pipe is being installed above a bridge over the Norwalk River. Sit fence is in place at this time. Photo on the right shows a view of this work from the roadway. 12/22/05



345kV (Wilton High School J&B): Photo on the left shows where the old settling basin has been filled in and the area regraded. Photo on the right shows a spot where the remaining erosion controls are lacking. This fence should be repaired as soon as possible. 12/22/05



345kV (HDD School Rd.) Both photos show views of the settling basin, still receiving turbid water and mud. No excavation or cleaning of the basin has occurred as discussed. 12/22/05



Photo on the left shows some disturbed areas to the west of the basin while the photo on the right is a view of the work area and associated disturbed soil. Any equipment access to or around the basin should be done on mats preferably, or temporary stone on fabric to prevent further disturbance or ruts. 12/22/05



View of the “bubbling spot” noted last week near the Norwalk River. This area was flowing clear water at this time but the deposited sediment from last week has not cleaned up as discussed.

12/22/05



Photo on the left shows the perimeter silt fence and disturbed soil surface along the east of the site. Additional stability is needed here to prevent further disturbance during equipment access. The photo on the right shows a small spill (likely of fuel) near the tank on site. 12/22/05

