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: July 23, 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: 2.24" of precipitation was recorded in the week prior to inspection, with 1.32" reported on

7/19 (NOAA data at Meriden, CT).

| Areas of Inspection | Observation | Recommended Action | Corrected Action |
|--|---|--|--------------------------------|
| Access roads and adjacent roadways Most work areas (including Oxbow Junction, Black Pond, Contractor Receiving Yard, Valley View Dr., Rte. 157, High Hill Rd., East Main Street, Fleming Rd.; | Access roads and stone tracking pads are in place at the ROW entrance in these locations. Associated roadways were free of project related sediment at this time. 7/23/07 | Sweep the roadways and refresh stone as needed. Clean existing controls in CBs as necessary. 7/23/07 | Not Applicable (NA) |
| Black Walnut Dr.) Scovill SS west to Chestnut Junction | Access road and pads are install from Rte. 9, east past Scovill SS. Silt fence remains along some of the wetlands. Culverts are in place at some of the wetland crossings with minimal flow noted in the streams. Several stream crossings, via timber mats remain at the old access road east of Scovill SS. 7/23/07 | Clean/sweep Freeman Road and Rte 9 as needed. Monitor wetlands at and around the site for run-off and add controls as needed. See erosion control section. 7/23/07 | NA |
| | Mulch remains at previously disturbed areas adjacent to the access road and pads. 7/23/07 | Continue to stabilize areas whenever feasible and monitor for vegetative cover. 7/23/07 | Mulch was applied proactively. |

| Areas of Inspection | Observation | Recommended Action | Corrected Action |
|---|---|--|--|
| Oxbow Junction to Beseck SS 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.; East of Beseck SS | All access roads and pad sites have been installed along the majority of this section of ROW. Timber mats used to cross wetlands as needed. Controls have been installed at all wetlands and no issues have been noted. 7/23/07 | 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. 7/23/07 | NA |
| Durham Rd | Timber mats remain in place for accessing pads in wetlands to the west of Durham Rd. 7/23/07 | Clean/sweep Durham Rd. as needed. See erosion control section. 7/23/07 | NA |
| Durham Rd. to Elihu Dr. | Access road and pad site installation on hold until winter. 7/23/07 | Add controls as needed during access road installation. 7/23/07 | NA |
| Rte. 157 (west) Private Driveway | Private dirt driveway being used to access a pad site. A section of lawn was damaged from equipment accessing the ROW. 4/23-7/23/07 | Maintain and adjust controls as needed. Work with landowner to repair the area of lawn as needed. 4/23-7/23/07 | Needs attention and evaluation at completion of work in the area. |
| East of Beseck SS | The timber mat staging area remains at the wetlands east of Beseck SS. Controls were not in place 6/11- 7/23/07 | Controls needed to be installed/extended to prevent sediment from entering the adjacent wetlands. 6/11-7/23/07 | Needs evaluation/ attention |
| Black Pond Junction to Beseck SS ROW, North of Beseck SS | Water bars are in place along the access road to divert turbid run-off to lines of staked haybales 7/23/07 | Continue to monitor and adjust controls as needed 7/23/07 | NA |
| | Stone pads, staging areas, and accesses north of Beseck SS remain in place. Some ruts were forming, 7/23/07 | Monitor area for run-off and add controls as needed. 7/23/07 | NA at this time. |
| South of High Hill Rd. crossing (vicinity of East Meriden SS) | Access road crosses several streams and wetlands in this section 7/23/07 | Continue to adjust and maintain controls as needed. See erosion controls section. 7/23/07 | NA |
| North of High Hill Rd. crossing (north to Black | Access road is in place off East Main Street, within a | Monitor tracking into the development parking lot | NA |

| Areas of Inspection | Observation | Recommended Action | Corrected Action |
|--|--|---|------------------|
| Pond) | condo development and to the north of E. Main St. Area looks good; no tracking noted. Fiber rolls in place along the slope. 7/23/07 | and sweep as needed. Continue to add controls as work progresses. 7/23/07 | |
| Foundation and site construction Scovill SS west to Chestnut Junction | Access road upgrade and pad construction is complete. Foundation drilling continues at two pad sites. 7/23/07 | Monitor and add controls as needed. See erosion control section. 7/23/07 | NA |
| Oxbow Junction to Beseck SS Oxbow Jct. to Haddam Quarter Rd. to Foot Hills Rd. to Arbutus Street | Foundations and/or poles are in place in most locations. Minor access road and pad grading was noted at Arbutus St. 7/23/07 | Monitor and add controls as needed. 7/23/07 | NA at this time |
| Black Walnut Dr. (east) | No new work since the foundation was installed at the last pad upgradient from the Ball Brook habitat. 7/23/07 | Monitor and add/adjust controls as needed. See state listed species section. 7/23/07 | NA at this time |
| South of Contractor Yard Along Rte. 17 and Little Lane | Structures are in place here at the point where 1A and 1B rejoin. 7/23/07 | Monitor and add/adjust controls as needed. See erosion control section. 7/23/07 | NA |
| Cherry Hill Rd. | Soil stockpiles were generated as a result of foundation drilling between the transfer station and Little Ln. 7/23/07 | Continue to monitor and ensure soil is contained. See erosion control section. 7/23/07 | NA |
| Durham Rd. | A pole/structure had been installed on the foundation within the wetland. 7/23/07 | Controls appear to be needed. See erosion control section. 6/18-7/23/07 | NA |
| Black Pond Junction to Beseck SS ROW, North of Beseck SS to Black Pond Jct. | Foundations and poles have been installed. Line pulling continues from Black Pond Jct. to Beseck SS. 7/23/07 | Continue to monitor controls in this area and stabilize soils as soon as possible. 7/23/07 | NA |
| | One more line of poles and foundations will be needed to complete this | Monitor controls; adjust as needed. 7/23/07 | NA |

| Areas of Inspection | Observation | Recommended Action | Corrected Action |
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| | area. 7/23/07 | | |
| Erosion and sediment controls Scovill SS west to Chestnut Junction | Silt fence remains in some areas along the access road to filter runoff. 7/23/07 | Add controls when entering sites for clearing, as soon as soil is disturbed, and when resource areas are adjacent. 7/23/07 | NA |
| | Upgraded access road in place with culverts at 3 streams. Some turbid water from installation noted 6/25. Mulch and seed remain at exposed soil areas along the road. 7/23/07 | Continue to add controls along access road upgradient from wetlands to filter run-off and prevent turbidity. 7/23/07 | Mulch and seed were applied. Continue to evaluate |
| Oxbow Junction to Beseck SS Haddam Quarter Rd. To Foot Hills Rd. (east) | Controls (Haybales, filter socks) were filtering any water as it leaves the site. Controls are needed still upgradient of the wetlands. 5/21-7/23/07 | Add controls as needed upgradient from wetlands. Monitor wetlands for run-off. 5/21-7/23/07 | Needs evaluation. |
| | Filter socks remain at the turn onto the ROW and at the wetland crossing to filter run-off. 7/23/07 | Add controls as needed upgradient from wetlands. Monitor wetlands for run-off. 7/23/07 | Controls may be needed. |
| Foot Hills Rd. (west) Arbutus Street | Silt fence, filter socks and hay mulch and other controls remain along the timber mat wetland crossing and to filter runoff in these locations. 7/23/07 | Monitor controls and adjust as needed. Add controls along access road at run-off point. 7/23/07 | NA |
| Black Walnut Dr. | Some of the installed stone was pushed into controls along the road. 4/2-7/23/07 | Continue to adjust controls as needed and pull stone back from swales if necessary. 4/2-7/23/07 | NA |
| | Bark mulch, haybales and filter socks remain along the steep slope of the pad upgradient of Ball Brook. 7/23/07 | Continue to adjust controls as needed and ensure that the filter socks and drainage ditches are adequate to filter run-off. 7/23/07 | NA |
| Contractor Receiving Vand and Storage Area | A few fiber rolls have | Repair/replace damaged | NA |

| Areas of Inspection | Observation | Recommended Action | Corrected Action |
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| Yard and Storage Area | been run over along the access drive. 2/12- 7/23/07 | fiber rolls as needed. 2/12-7/23/07 | |
| | Silt fence and fiber rolls are in place at the perimeter of the yard and along drainage areas/swales but several sections have fallen. 4/23- 7/23/07 | Continue to add, maintain, and monitor controls as necessary. Repair fallen/untoed sections of silt fence 4/23- 7/23/07 | Needs repair |
| South of Contractor Yard Along Rte. 17 and Little Lane | Silt fence typically filters turbid run-off before it leaves site. Mulch is in place in some areas. 7/23/07 | Monitor and reinforce controls to ensure they adequately filter run-off. 7/23/07 | NA |
| Cherry Hill Rd. | Timber mats are in place but controls have not been added in one section to the west. (noted 4/2). 7/23/07 | Ensure that controls are adequate to control run-off. 7/23/07 | Needs evaluation |
| | Large soil stockpiles were generated moving east towards Little Ln. 7/23/07 | Ensure that stockpiles are contained and add controls where needed. 7/23/07 | Needs evaluation |
| Durham Rd. | Timber mat crossing is in place west of Durham Rd. within the ROW. Foundation installed. No controls have been added; clear water is flowing off site. 6/11-7/23/07 | Although run-off is less turbid, controls are still needed at this site. 6/11- 6/11-7/23/07 | Needs attention |
| Rte. 157 (east & west) & Elihu Dr. | Controls were in place along pad sites. Grass growth was noted in the recently restored area. 7/23/07 | Continue to adjust or extend controls when work progresses in this area. Monitor area until grass growth is established. 7/23/07 | Grass growth noted. |
| Powder Hill Rd. | N | D | N7 1 .0 |
| | Numerous controls remain in place along the access road. Filter socks and haybales remain | Remove sediment accumulated around the controls and vegetation. Stream crossings/culverts | Needs proactive attention/evaluation when feasible. |
| | upgradient of the stream and pond (both sides) at the base of slope. Sediment accumulation | are temporary and will be removed at the end of the work. Despite good efforts on controls, turbid | Grass growth continues in hydroseeded areas. |

| Areas of Inspection | Observation | Recommended Action | Corrected Action |
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| | has occurred at the controls. 7/23/07 | run-off is still an issue during larger storms. 7/23/07 | |
| | Turbid water was noted flowing off-site, maintenance of silt socks and haybales is needed along the slopes of Beseck Mtn. Vegetation is helping to trap sediment before it reaches streams. 7/23/07 | Adjust and maintain controls as necessary to prevent turbid run-off or erosion until sites can stabilize. 7/23/07 | Needs evaluation/ maintenance |
| | Accumulated sediment from past heavy rains can be seen in the wetlands west of Powder Hill Rd. when standing water recedes. 6/11-7/23/07 | Any sediment accumulation over 2" should be carefully removed from the wetland by hand. 5/29-7/23/07 | Needs evaluation. |
| East of Beseck SS | At the spot adjacent to the wetlands east of Beseck SS, fiber rolls (filter socks) remain adjacent to the timber mat pads but sediment (likely from snow clearing) has been piled on and over the socks. 4/2-7/23/07 | Adequately contain all sediment; the soil in the wetland will have to be removed carefully be hand. 4/2-7/23/07 | Needs attention |
| | Timber mats were in place through the wetlands for pulling wire. No controls were noted. (since 6/4) Turbid run-off is an issue during heavy rain. 7/23/07 | Add controls at crossing and monitor pond/wetlands for turbid runoff. 6/4-7/23/07 | Needs attention |
| Black Pond Junction to Beseck SS ROW, North of Beseck SS to East Meriden Substation | Several areas of exposed soil remain mulched and seeded along this section of ROW. 7/23/07 | Monitor exposed areas until stabilized. 7/23/07 | NA. |
| Fleming Road | The second line of silt fence remains in place at the pole immediately adjacent to the pond. A line of haybales was in place downgradient from another recently poured foundation 7/23/07 | Monitor, adjust, and extend controls as needed. Continue to remove sediment from controls as needed. 7/23/07 | NA |

| Areas of Inspection | Observation | Recommended Action | Corrected Action |
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| South of High Hill Rd. (vicinity of East Meriden Substation) | The redirected stream splits, flowing partially through a culvert and partially through the center of the timber pad site. The banks and adjacent, exposed soil remain stabilized with erosion control mats. 7/23/07 | Ensure the controls are adequate for run-off in this area. Stabilize soils as soon as possible. Controls or regular cleaning will be needed on the timber mats as well to prevent sediment from seeping through. 7/23/07 | Needs proactive attention. |
| High Hill Rd. (north to Black Pond) | Controls are in place along the access off High Hill Rd., and upgradient from wetlands in all locations. 7/23/07 | Monitor controls closely. Adjust as needed Continue to extend controls along wetlands as work progresses. 7/23/07 | NA |
| Inland Wetland and Watercourse encroachment and mitigation | ACOE permit is in hand. 1/22/07 | Perform work in wetlands under the permitted guidelines. 7/23/07 | NA |
| Most access areas (including: ROW North of Beseck SS; Arbutus St.; Little Lane; Durham Rd.; Powder Hill Rd. Black Walnut Dr.; Johnson Ln.; Foot Hills Rd.) | A number of wetland crossings (via timber mats) were noted. Adjacent controls were installed. 7/23/07 | Monitor closely for sedimentation and add controls as needed. All crossings are temporary and will require restoration at the end of the work. 7/23/07 | NA |
| Scovill SS west to Chestnut Junction | Slight turbidity was noted in the culverted flow under the access road after installation (6/25). Adjacent areas remain mulched. 7/23/07 | See erosion control section. 7/23/07 | NA. |
| Oxbow Junction to Beseck SS Contractor Storage Yard | Perimeter controls are deteriorating in spots and should be repaired. The suspended sediment in the adjacent pond has settled. 5/14- 7/23/07 | Adjust/repair controls as needed around the site. 5/29-7/23/07 | Continue to monitor pond. Controls need attention. |
| Durham Rd. | The pole is in place at the wetland/ upland boundary off Durham Rd. Run-off to adjacent wetlands was no longer turbid but controls are still needed. 6/25-7/23/07 | Controls needed within the wetland to prevent sediment from leaving the timber mat pads. 6/25- 7/23/07 | Turbidity and run-off were reduced but adequate controls were not in place. |

| Areas of Inspection | Observation | Recommended Action | Corrected Action |
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| Powder Hill Rd. | Several smaller streams remain culverted. When standing water recedes, some accumulated sediment from past heavy rains has been noted in wetland areas. 5/29-7/23/07 Some turbid run-off noted leaving the site. 7/23/07 | All crossings are temporary and will require restoration at the end of the work. Where sediment is greater than 2", it should be removed carefully by hand from the wetland. 5/29-7/23/07 | Needs evaluation. |
| East of Beseck SS | Timber mat staging areas are in and adjacent to wetlands. Sediment was noted on and beyond the filter sock at the wetland's edge. 4/2-7/16/07 Turbid run-off is an issue during heavy rain (noted 6/4) 7/23/07 | Adequately contain all sediment; the soil in the wetland will have to be removed carefully be hand. 4/2-7/23/07 Controls are needed around the pads. 6/11-7/23/07 | Needs attention. |
| Black Pond Junction to Beseck SS High Hill Rd. South to East Meriden Substation and north to Black Pond | Pole installation is complete within the stream/wetlands. The flow is being re-routed through a riprap channel and culvert. Erosion control mats are in place at the top of bank. Several other poles/foundations in this section have been installed immediately adjacent to wetlands. 7/23/07 | Continue to stabilize soils and adjust controls as necessary to protect wetlands. Stabilize adjacent area as soon as possible. See erosion control section for more details. 7/23/07 | NA |
| State species of concern, threatened and endangered species. | 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. However, the final pad is installed upgradient from the habitat and foundation installation was completed here but minor grading was ongoing. 7/23/07 | April 1st was the start of the active wood turtle season; contractors will require training for mitigation if work occurs in the Ball Brook habitat. Ball Brook is not scheduled to be accessed, however consider performing sweeps at this last pad as turtles do forage/migrate away from streams. 7/23/07 | Consider mitigation/sweeps in this area. |
| Multiple ROW areas | A variety of wildlife has | Continue to be very | Continue to monitor. |

| Areas of Inspection | Observation | Recommended Action | Corrected Action |
|--|--|--|--|
| including: Scovill SS; Haddam Quarter Rd. To Foot Hills Rd.; Johnson Lane; Powder Hill Rd.; Contractor Storage Yard Pond; East of Beseck SS | 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. 7/23/07 | mindful of controlling sediment and reducing access near wetlands used for amphibian breeding Also monitor controls for effectiveness and be mindful that the controls will block foraging/migrating wildlife 7/23/07 | |
| | Many turtles have previously been observed basking in the ponds south of High Hill Rd and near Fleming Rd. A spotted turtle was also noted in the wetland near Scovill Rock SS in past months. 7/23/07 | Although these are not state listed species, continue to be mindful of equipment movement and work activities in these areas. 7/23/07 | Continue to monitor. |
| Vegetative clearing or stabilization ROW west of Scovill Rock SS to Chestnut Junction Powder Hill Rd.; Little Lane; Durham Rd; Black Walnut Dr; Valley View Dr.; Rte 157; ROW North of Beseck SS to Black Pond | The clearing that had been performed for access road and pad construction 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. 7/23/07 | Retain species approved by the D&M plan wherever feasible. Temporarily stabilize exposed soil as necessary, especially in slope areas such as Beseck Mtn. Continue to stabilize areas and monitor for vegetative cover. 7/23/07 | In all areas, be aware of limits of clearing and stick to the specifications of the D&M plan Grass growth and natural revegetation noted in many areas. |
| Arbutus Street | The minor vegetative clearing and chipping/grinding was complete. 7/23/07 | Continue to monitor activities and keep mulched material out of wetlands areas. Add controls as needed. 7/23/07 | NA at this time. |
| Dewatering Oxbow Junction to Beseck SS Black Walnut Dr. | Several settling basins remain in place off Black Walnut Dr. 7/23/07 | Continue to use settling basins as needed. Monitor capacity of the basin when in use. 7/23/07 | NA |

| Areas of Inspection | Observation | Recommended Action | Corrected Action |
|---|--|---|--|
| Cherry Hill Rd. (west) | Settling tank used for dewatering 7/23/07 | Monitor area closely, use settling tanks and pump trucks as needed. 7/23/07 | Settling tank used for dewatering |
| Durham Rd. | Pole installed within wetlands. Settling tank used for dewatering. 7/23/07 | Settling tank remains here on the mats. 7/23/07 | A settling tank was used, but controls still need attention. |
| Black Pond Junction to Beseck SS North of Beseck SS to East Meriden Substation | No active dewatering noted at this time in the High Hill Rd. area. A few foundations had been installed in this section of ROW. 7/23/07 | Continue to monitor capacity of the basin and adjust controls as necessary. 7/23/07 | NA |
| Blasting | No blasting is proposed. 7/23/07 | None 7/23/07 | |
| Spills, soils and material storage All active areas | Spill controls move from site to site with the equipment. 7/23/07 | Always use spill control materials when working on equipment and during refueling, 7/23/07 | NA |
| | Concrete washout containment was noted in the form of lined, dug basins in several locations. 7/23/07 | Provide appropriate containment for washouts. Be especially careful of concrete containment near wetlands. Remove the material once work is complete. 7/23/07 | Concrete washout basins were noted in several locations. |
| Oxbow Junction to Beseck SS Contractor Receiving Yard and Staging Area | Materials are being stored and structures staged in this area. No issues were currently noted 7/23/07 | Always use spill control materials when working on equipment and during refueling. Continue to locate hazardous materials and equipment away from wetlands inlets such as culverts and CBs. when possible. Remove spills as needed. 7/23/07 | NA |
| Black Pond Junction to Beseck SS | Some equipment and supplies are being stored here. A large spill kit is stored onsite. 7/23/07 | Always store equipment and supplies away from sensitive areas. Monitor and maintain equipment as needed and provide housekeeping on a regular basis. 7/23/07 | NA at this time |

| Areas of Inspection | Observation | Recommended Action | Corrected Action |
|----------------------------|--|---|---|
| | Three pieces of equipment were parked on timber mats, within two separate wetland areas in this section of ROW. This included north of Beseck SS and off High Hill Road. The equipment near Beseck was moved by the next day for line pulling. 7/23/07 | Avoid storage and parking of equipment within wetlands, even temporarily. Attempt to keep them over 100ft from sensitive areas whenever feasible. 7/23/07 | The equipment near Beseck SS had been removed the day after the inspection and the contractor was looking into the other vehicles. |
| Additional Observations | NA | | |

| Next likely scheduled | |
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| inspection: | Monday July 30, 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 | |



Drilling was occurring west of Scovill SS off Rte 9.



Minor grading activities were occurring off Arbutus Street.



Crews have been spreading mulch along previously disturbed areas west of Scovill SS off Rte 9. Photo also shows a view of foundation drilling occurring in the area.



View of the foundation off Black Walnut Drive, upgradient from Ball Brook.



Some grass growth was noted at the recently seeded area near Little Lane and Rte $17\,$



View of soil stockpiles resulting from foundation drilling between Little Lane and the Durham Transfer Station off Cherry Hill Road. Ensure that soil is contained appropriately.



Vegetative growth noted along work areas and wetlands off Cherry Hill Road



Pole installed off Durham Road. Sediment accumulation was noted on timber mats in the wetlands. Remove sediment to the extent feasible and install controls where needed.



Grass growth noted in the recently seeded area off Elihu Drive.



View of the existing controls within wetlands off Powder Hill Rd.



View of the wetland crossing off Powder Hill Rd.



Turbid water flowing from the access road, through controls, and off site to the sediment trap/basin east of Beseck SS.



View of the sediment trap east of Beseck SS. The trap is also receiving turbid water from the switching station and does not have the capacity during larger rain events.



Equipment was parked on mats within wetlands north of Beseck SS. Equipment was moved the next day and used for line puling in this area. Avoid equipment storage in wetlands, even if it is temporary.



Two pieces of equipment were parked on mats within wetlands off High Hill Road. Avoid equipment storage in wetlands, even if it is temporary



Hay and seed spread to stabilize soils north of High Hill Road along the slope to a stream.