

Third Party Inspection Form

This report is prepared by a Third Party Inspector to meet the requirements of the Third Party Inspector Condition attached as a Special Condition to the Department Order that was issued for the project identified below. The information in this report/form is not intended to serve as a determination of whether the project is in compliance with the Department permit or other applicable Department laws and rules. Only Department staff may make that determination.

TO: Erle Townsend, Dawn Hallowell PROJECT NAME/ LOCATION: RoxWind LLC DATE OF INSPECTION: 11-15-2021 WEATHER: Clouds, 30 deg., snow on ground	FROM: Steve Roberge DEP #: L-27863-ES-A-N, L-27863-NJ-B-N, L-27863-TG-C-N DATE OF REPORT: 11-15-2021 CONDITIONS: Good
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SITE CHARACTERISTICS:

# ACRES OPEN: 19 acres	# ACRES ACTIVE: 19.08 acres	# ACRES INACTIVE: 0 acres
LOCATION OF OPEN LAND: All areas	LOCATION OF ACTIVE LAND: All areas including access road	LOCATION OF INACTIVE LAND: none
OPEN SINCE: 08-17-2020	OPEN SINCE: 08-21-2020	OPEN SINCE: 8-21-2020

PROGRESS OF WORK:

INSPECTION OF:	Satisfactory	Minor Deviation (corrective action required)	Unsatisfactory (include photos)
STORMWATER CONTROL (VEGETATIVE & STRUCTURAL BMP'S)	Acceptable		
EROSION & SEDIMENTATION CONTROL (TEMPORARY & PERMANENT BMP'S)	Acceptable		
OTHER: (PERMIT CONDITIONS, ENGINEERING DESIGN, ETC.)	Acceptable		

COMMENTS/CORRECTIVE ACTIONS TAKEN (attach additional sheets as necessary):

See attached erosion control narrative for more detailed information....

Photos (must be labeled with date, photographer and location): Photos inserted into attached report

RoxWind LLC

Horseshoe Valley Road, Roxbury

Date: Monday, 11-15-2021 **Time:** 8:00 AM **Report:** 62
Inspected by: Steve Roberge, PE **Company/Agency:** SJR Engineering Inc.
Weather Conditions: 30 degrees, Clouds
Owner Rep: Palmer Management Corp (Sumul Shah)
Construction Site/Project Manager: Reed-Reed (Kate Doughty, Jake Hall)
Engineer: Sewall (Jody Dube-Oneal)
Site Earthwork Contractor: Sargent Construction (Tim LePage, Pete Broberg, Mark Wright)
Clearing Contractor: Comprehensive Land Technologies (CLT)
Onsite Environmental Inspections: Stephan (Reed/Reed)
Contact onsite today: **Owner Rep:** NA, **Reed/Reed:** Kate (phone), **Sargent:** Aaron (phone), **MD+B:** NA, **CMP:** NA
Date of Last Inspection: 11-08-2021
Estimated # of days since last rainfall over $\frac{1}{2}$ ": 1.18" rainfall 11/12/2021
Photographs taken: 11 photos included in report

Action item: A significant rain, ending in snow, event over the weekend has blanketed the site with 2" snow cover making observations more general. The items identified in the last report have been addressed. No significant issues noted. The Contractor should consider the following comments from today's observations:

1. The steeper sections of the soil filter media ditch have eroded. Sargent is reshaping the ditches to pre-rain conditions and adding additional check dams to the ditching. Existing check dams are being cleaned ready for the next rain event. "Work in progress"
2. Silt sediment is being tracked onto Horseshoe Valley Road and needs to be cleaned periodically throughout the day. (freezing/slippery)
3. Bottom quarter of corridor experiencing slow vegetative growth (now covered in snow).

Construction "Work in Progress" Narrative:

The entire site is covered in snow. A portion of the main access road has been plowed to Tower 2 only. Travel beyond Tower 2 was not recommended or attempted due to snow and slippery/icy conditions on the steepest portion of the tower road.

Towers 1, 2, 3, and 4 are completely erected. Testing/commissioning continues. Reed/Reed has demobilized the cranes. Sargent continues with main access road

restoration this week. Hydroseeding operations have been completed along the top of mountain. All streams within the parcel are flowing with clear water.

Underwood Electric has completed restoration of the corridor work. The top $\frac{3}{4}$ of the corridor has significant grass established. The lower quarter is struggling to get vegetation established, but more time is needed (no changes). The Contractor should consider a second application of seed/winter mulch on bare areas.

The following items were inspected:

1. Environmental flagging/signage: Clearing/grubbing activities have been completed. Flagging of resources is easily visible along the project area. Areas of encroachment into buffer areas or onsite environmental resources have been noted previously.

2. Silt Fencing/ECM Berm: Perimeter erosion control berm/silt fence has been established along the downslope work areas. No evidence of eroded soil capture has been noted along the berms/silt fence. In areas that have been blasted, the Contractor should reset the silt fence or install ECM berms along the downslope side of construction. If the sideslope area is already covered with ledge such that no soils will erode, ECM berm and/or silt fence is not necessary. Silt fencing should be removed in areas of established vegetation, or little risk for erosion.

3. Stabilized Entrance: The stabilized entrance has been established. Horseshoe Valley Road has some silt soils tracking onto the road. These need to be cleaned periodically throughout the day as they will freeze to road.

4. Soil stockpile: Grubbing stockpiles have been created as the overburden from ledge is moved. The soil stockpiles are being utilized during the restoration efforts along the tower access road and main access road.

5. Mulching: A heavy hay mulch needs to be placed at this time of year (Winter construction techniques). Mulch cover should be enough to completely cover the ground surface such that the ground surface is not visible. The wetland areas have been mulched with hay (rather than straw).

6. Erosion Control Mix: The Contractor has completed making ECM material for installation along the downslope perimeter of the project as well as other areas they deem appropriate for erosion control.

7. Dust Control: The access road has been watered (rain/snow) to control dust.

8. Hay Bales: Hay bales should be available for mulching disturbed soils that will not be in immediate work areas. In general, the bales will be broken down and used as a mulch cover on exposed soils.

9. Stone/ECM Check Dam: In several locations, the Contractor has installed stone check dams in the upslope ditching of the new rocked driveway. Check dams in the Tower access road are being cleaned of sediment. Check dams have been created along the soil filter media ditches.

10. Culverts/Riprap: Sargent has upgraded some of the existing culverts and has installed new culverts going up the mountain. New proposed culverts have been installed along the access driveway.

11. Level Spreader: Many new culverts have a level spreader installed at the discharge end of pipe. In "stream" locations, they have been removed.

12. Water Bars: New water bars are being reconstructed to divert road water into the filter media ditches. They should be installed at appropriate intervals of the narrowed rocked road based on the steepness of the slope. This will help to control the rills and washouts of the road during significant rain events. The water bar discharge area should be excavated and a ECM/stone berm established to capture sediment and filter turbid water.

Water bars/stabilized outlets along the restored transmission corridor have been created and seem to be working.

13. Catch Basins/Stormdrain system: NA at this time.

14. Ditches/Swales: New ditches have been created during the construction of the new rocked driveway leading up the hill. New soil filter media ditch erosion is being cleaned up and reshaped in the ditch with additional stone check dams installed. Both sides of the driveway ditch to the SCADA building have been cleaned of debris.

15. Retention/Sediment/Filter Ponds: NA at this time.

16. Cut/Fill Slope Protection: Silt fence/ECM berms are installed along the downslope perimeter of disturbed soil areas. Slopes have been evaluated to see if ripraping the areas will resolve the slope slides. In general, the steep slopes are riprap on fabric.

Along the restored transmission corridor, disturbed areas have been seeded and covered with mulch. Vegetation has become established on the upper $\frac{3}{4}$'s of the corridor.

18. Vegetative Cover: Most of the disturbed area along the corridor has been seeded and covered with hay mulch. The growing season has stopped and the site is covered with 2" of snow.

19. Stream/Wetland/Bridge Crossings: Appropriate erosion controls have been installed.

20. Spill Prevention: The project has an identified spill prevention control plan. The Contractor has spill containment materials within construction vehicles, equipment, and "on the ground".

21. Winter Construction: Winter construction guidelines (November 1 - April 15) are active at this time.

22. Utilities: The Contractor has notified DIGSAFE of construction of the project.

23. Areas currently under construction/disturbance: The entire project area is under construction with testing of the components being performed now. All cleared areas have been cut/cleared/stacked/removed from the site. Erosion control silt fence and ECM berms have been installed. Towers T1 thru T4 are stumped and grubbed including the access road. T1/T2/T3/T4 padsites and all of the access road have been drilled and blasted. Rock was utilized to construct the access road and new driveway. Rock crushing operations are completed. This material was being used for surface gravel along the driveway access. Erosion control material has been made onsite. T1/T2/T3/T4 tower construction has been completed. T4/T3/T2 have been loamed and partially hydroseeded.

24. Estimate total area under construction/disturbance: Approximately 19 acres are under active construction at this time.

Progress photos taken by SJR 11-15-2021



Photo #1: The Contractor has removed crushed stone from the Horseshoe Valley Road intersection with the project driveway. A slight covering of silt material is being tracked onto the paved surface that should be removed periodically throughout the day at this time of year.



Photo #2: Sediment within the rocky plunge pool area across from the driveway entrance has been removed. No significant new sediment buildup noted. Water in pool is slightly turbid.

Progress photos taken by SJR 11-15-2021



Photo #3: Some soil material within the $\frac{1}{2}$ filled stream culvert has washed and has been captured by the silt fence.



Photo #4: Snow cover in the filter media ditch construction along the main access road depicts some areas that the filter media has eroded. Sargent is repairing these locations along the bottom $\frac{1}{2}$ mile of main access road.

Progress photos taken by SJR 11-15-2021



Photo #5: The new gravel fill inside the stream culverts has washed fines from the soil by this weekend's significant rain event.



Photo #6: Outside view of same culvert (sta 124+50) showing washed gravel flowing in stream.

Progress photos taken by SJR 11-15-2021



Photo #7: While the picture does not reflect the vertical elevation very well (8' drop), the discharge end of culvert at sta 125+50 has significant riprap on fabric protection that distributes the concentrated pipe flow over the whole rock.



Photo #8: The stream along the downslope side of culvert 125+50 is relatively clear water.

Progress photos taken by SJR 11-15-2021



Photo #9: Tower 2 is barely visible in the fog/snow, with 2" of snow covering the entire project area.



Photo #10: The upper portion of the transmission corridor access road coming into the RoxWind Towers portion of the project has been restored. Water bars have captured and diverted upland areas into stabilized areas. A significant catch of vegetation is becoming established. Some erosion is beginning to occur that should be redirected at the rock barrier along the road.

Progress photos taken by SJR 11-15-2021



Photo #11: The corridor is snow covered ending any potential growing season for established vegetation.

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Email PDF Copy to: Erle Townsend, Dawn Hallowell, Sumul Shah, Lindsay Deane-Mayer, Gordon Deane, Jodi Dube-Oneal, Kate Doughty, Jake Hall, Tim LePage, Travis Fernald, Mark Wright, Peter Broberg, Justin Fike, Nick Laskovski, Faye Wexler, Ethan Smith, Jim Semones