



Oregon

Kate Brown, Governor

Department of Environmental Quality

Northwest Region

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Portland, OR 97232

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TTY 711

April 7, 2022

Trevor & Rachel Wood
3510 Jasma Lane
Klamath Falls, OR 97601

RE: Annual Inspection for Parcel BR (part of)
North Ridge Estates Superfund Site
ECSI No. 6018

Dear Mr. & Mrs. Wood:

The Oregon Department of Environmental Quality (DEQ) completed an annual inspection of the protective cap on your property located at 3510 Jasma Lane during the week of October 11, 2021. Enclosed for your information is a summary of the inspection.

Several gullies were noted during the inspection (see map in inspection report). The two foot soil cover must be maintained to remain protective. The Easement and Equitable Servitude recorded with Klamath County requires you to maintain and keep the protective caps in good repair. Please smooth out and repair the areas identified in the enclosed inspection report within the next 30 days.

DEQ is shifting the annual inspection from the fall to the spring. The next inspection will be performed in May 2022. This will allow DEQ to complete the inspections, notify the owners of any repairs needed, for the owners to perform repairs, and for DEQ to perform a follow-up inspection prior to snow accumulation.

Please continue to contact DEQ prior to any disturbing any of the protective caps on your property with the exception of soil disturbances less than 2 feet below the ground surface. A fact sheet with additional information is enclosed.

If you have any questions, please contact me at 503-860-3943, or via email at Katie.Daugherty@deq.oregon.gov.

Sincerely,

Katie Daugherty, R.G.
Project Manager and Hydrogeologist
NWR Cleanup and Leaking UST Section

Enclosures

Digging at the North Ridge Estates Superfund Site

What do I need to do or know?

- 1) Perform all other normal permitting and utility locates as you would for any other project.
- 2) Be familiar with the types of protective caps at North Ridge Estates. The protective cap is intended to prevent people's exposure to any remaining asbestos-contaminated materials, including asbestos fibers in soil. Protective caps include:
 - A two-foot layer of clean soil with vegetation
 - Asphalt and concrete surfaces, such as garage concrete floor or basement concrete floor
 - Boulders
 - Black liners installed below covered porches and in home crawl spaces
 - Orange liners below the soil cap
- 3) Review the terms of the Easement and Equitable Servitude (EES) document recorded on the deed of your property. Determine if your planned activity is within the area covered by restrictions outlined in the EES. Some properties on the edge of the Superfund site only have a portion of the property restricted. *General rule of thumb: if the area was excavated during the Superfund Cleanup, the area is restricted.* Can't find your EES? Contact the Oregon Department of Environmental Quality (DEQ) project manager and they will email you a copy.
- 4) All activities or uses that could jeopardize the function of the protective cap, are prohibited without prior written approval from the DEQ.
- 5) Follow the steps below for your specific activity.

I want to dig **less than two feet** - what are the required steps?

- 1) Minor activities are allowed within the **soil protective cap**, such as installing fence posts, planting, or other activities that go no deeper than two feet below the ground surface without prior written approval from DEQ.
- 2) You must fully restore the cap to the surface after the activities are completed.
- 3) Stop immediately and call the DEQ project manager if you see an orange liner. **No matter the depth!** You are entering an asbestos contamination zone and risk exposure to asbestos if you continue.



Example of Orange Liner. 2018. Installing marker barrier consisting of rock base and orange liner on Parcel B prior to covering with clean soil.



Example of Black Liner. 2018. Black liner with rock to hold in place on Parcel A.

I want to dig deeper than two feet, dig below a black or orange liner, dig through asphalt or concrete, or move boulders on my property - what are the required steps?

- 1) Fill out the *North Ridge Estates Earthwork Notification and Reporting Form* and submit this form to the DEQ project manager. Can't find the form? Contact the project manager and they will email you a copy.

The project manager will review the information provided in the form and work with you to determine the conditions under which your work may be performed.

If your work will breach the cap, you must, at your own expense, use an Oregon-licensed asbestos abatement company during any action that may disturb a contaminated area. Any excavated material, including soil, will be required to be disposed at a landfill. If the liner is damaged during work, you must replace it at your expense.

- 2) Once work is complete, fill out the reporting section of the *North Ridge Estates Earthwork Notification and Reporting Form* and return to the DEQ project manager.



State of Oregon
Department of
Environmental
Quality

Cleanup Program

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Contact: Katie Daugherty

www.oregon.gov/DEQ

DEQ is a leader in restoring, maintaining and enhancing the quality of Oregon's air, land and water.

Alternative formats

DEQ can provide documents in an alternate format or in a language other than English upon request. Call DEQ at 800-452-4011 or email deqinfo@deq.oregon.gov

Parcel BR

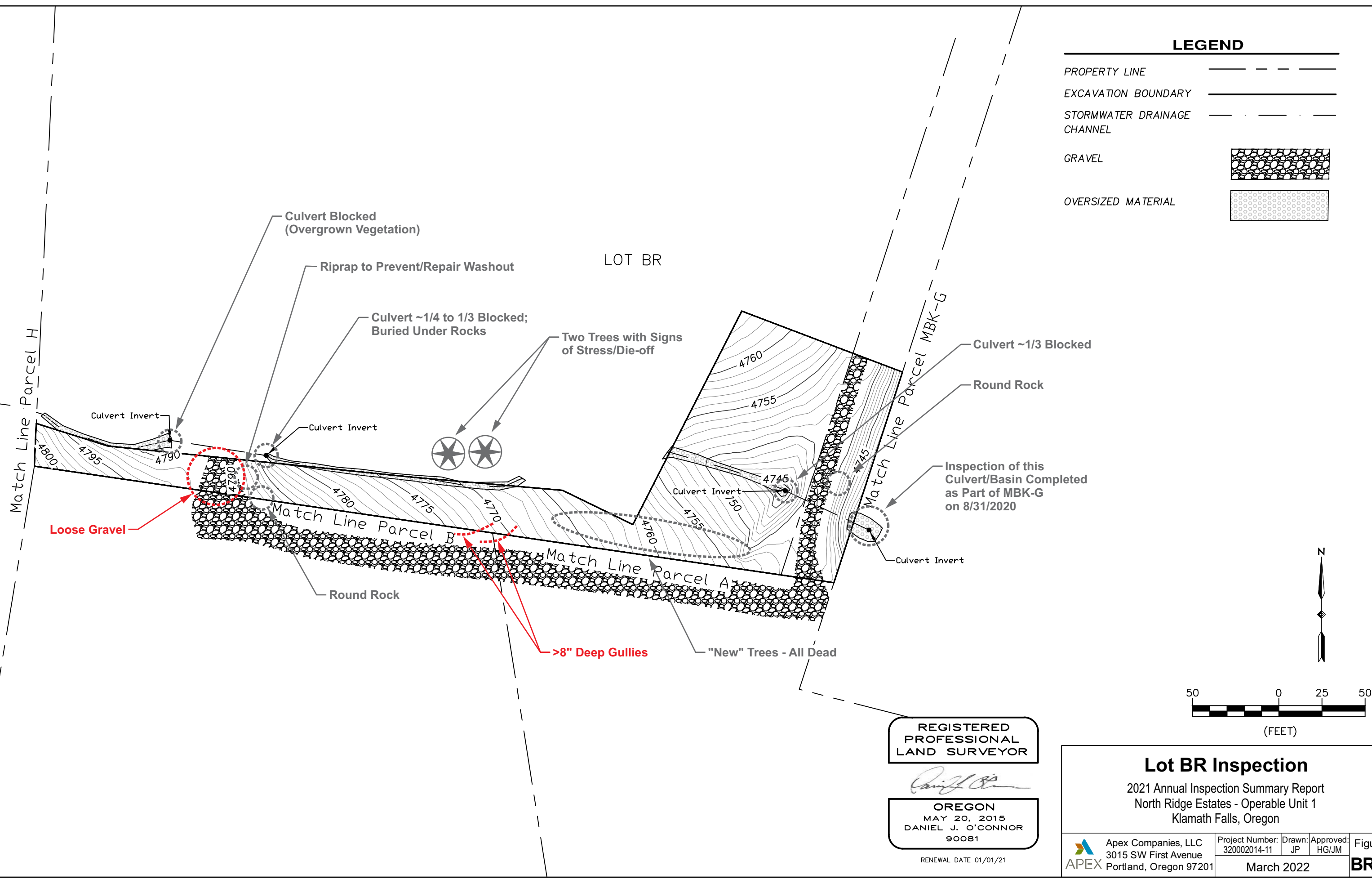
Operations and Maintenance Inspection Form

Part I. General Site Information							
Site Name:	North Ridge Estates		State/County:	Oregon (Klamath County)		Parcel/Tax ID:	Parcel BR
EPA Point of Contact	Linda Meyer (206) 553-6636		ODEQ Point of Contact	Katie Daugherty (503) 860-3943			
Inspection Date:	10/12/2021		Person(s) Performing Inspection:	Saul Montes (Apex Companies, LLC)		Person(s) Performing Inspection:	
Part II. Remedy Performance Assessment							
Remedy Component	Potential Problem	Yes (Repair Needed)	Yes (Monitor/No Repair)	No	N/A	If Yes, Describe Extent of Problem	Describe Potential Repair Solution
Protective Cap	Have rills developed deeper than 2 inches?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Are the rills within a 10-foot interval?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Have gullies developed deeper than 6 inches?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8-inch deep gullies are present near the southern portion of the parcel.	The surface should be restored at the gullies.
	Have animals created burrows in the protective cap?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Have vehicles damaged the protective cap?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Any evidence of ACM on Site including areas where the protective cap is less than 2 feet (see as-built drawings) or within the dripline of the legacy trees?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Are there areas that show evidence of unstable slopes, subsidence, or slope failure? Are there signs of active bank erosion and/or lateral cutting?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Any visible ACM along the perimeter of the Site (where applicable)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Vegetation	Evidence of distressed or sparse vegetation? (sparse vegetation no greater than 10 percent of area and bare areas no greater than 100 square feet)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Evidence of trees and shrubs in distress?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes. Many of the newly planted trees are showing signs of stress and two legacy trees just to the north of the removal area are showing signs of die off. (Same as 2020)	Vegetation will be watched during subsequent inspections to verify that dead vegetation does not impact soil cap.
	Are there any stressed or dying trees that may impact or damage the protective when felled?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Two legacy trees (mentioned above) are not believed to be able to damage the cap. (Same as 2020)	Trees will be watched during subsequent inspections to verify that dead vegetation does not impact soil cap.

Operations and Maintenance Inspection Form

Ditches and Culverts	Obstructions observed in ditches or culverts that may impede conveyance of stormwater?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	All onsite culverts have some level of blockage (~1/4 to 1/3), but may not significantly impact drainage. (Same as 2020)	Culverts could be cleared.
	Damaged observed to riprap surface? Note if riprap is not intact or not effectively providing armor protection.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Are there any areas that show signs of excessive scour? (i.e., gullies forming along centerline of ditch)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Are culvert inlets and outlets damaged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Driveways and Walkways	Are the driveways showing signs are failure? (i.e., alligator cracking)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Driving surfaces were gravel.	
	Are there any other signs of considerable damage to paved surfaces, other than normal wear and use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Crawlspaces and Decks	Are the liners inside crawlspaces and under covered decks damaged or punctured?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Are the liners exposed to UV radiation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Access Controls	Are access controls damaged?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Are changes to the access controls needed?	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Miscellaneous Features / Changes in Site Conditions / Misc.	Are there any new site features installed that have damaged the protective cap?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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View of the southern edge of the BR removal area/cap, looking west from the SE corner.



View of the NE portion of Parcel BR, looking from the SW corner.



View of the SE portion of the property line, looking from the southwest corner.



Majority of newly planted trees are dead or stressed along the southwest hill of Parcel BR.



Round rocks were placed to create a drainage to prevent/repair erosion in the southwest portion of the property.



Culverts under the driveway were severely obstructed by overgrown vegetation and soil.



One of the culverts could not be identified under overgrown vegetation, rocks, and dead shrubs.



Two legacy trees just north of the cap were stressed/dying. If felled, it is unlikely to damage the cap.



Typical condition of the driveway pavement made up of loose gravel, looking from the northwest portion of the property.



Deep tire tracks were noted along the ditch near the southwest edge of the property.



View of the southern edge of the BR removal area and cap, looking west.



View of the northwest corner of Parcel BR, showing straw wattles still present and dead newly planted trees.



View of the west edge of the BR removal area/cap looking north from the southwest corner.



View of the southern end of Parcel BR removal area/cap from the southwest corner.