



# Oregon

Kate Brown, Governor

Department of Environmental Quality

Northwest Region

700 NE Multnomah Street, Suite 600

Portland, OR 97232

(503) 229-5263

FAX (503) 229-6945

TTY 711

December 31, 2020

Mindy Schell  
110 Ce Lee Drive  
Huntsville, AL 36806

RE: Annual Inspection for Parcels BL, MBK-F, & part of AI  
North Ridge Estates Superfund Site  
ECSI No. 6015

Dear Ms. Schell:

The Oregon Department of Environmental Quality (DEQ) completed an annual inspection of the protective cap on your property located on North Ridge Drive during the week of August 31, 2020. The protective cap appears to be in good condition with a few minor areas to watch. Enclosed for your information is a summary of the inspection.

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 503-229-6748, or via email at [Daugherty.Katie@deq.state.or.us](mailto:Daugherty.Katie@deq.state.or.us).

Sincerely,

*Katie Daugherty*

Katie Daugherty, R.G.  
Project Manager  
NWR Cleanup and Tanks Program

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

700 NE Multnomah St.,  
Suite 600  
Portland, OR 97232  
Phone: 503-229-6748  
800-452-4011  
Fax: 503-229-6124

[Daugherty.Katie@deq.state.or.us](mailto:Daugherty.Katie@deq.state.or.us)  
[r.us](http://r.us)

Contact: Katie Daugherty

[www.oregon.gov/DEQ](http://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.state.or.us](mailto:deqinfo@deq.state.or.us).

***Antenna Road (ACM Surface Pickup Area)***

## Operations and Maintenance Inspection Form

Part I. General Site Information							
Site Name:	North Ridge Estates	State/Country:	Oregon (Klamath County)	Parcel/Tax ID:	Antenna Road		
EPA Point of Contact	Linda Meyer (206) 553-6636	ODEQ Point of Contact	Katie Daugherty (541) 229-6748				
Inspection Date:	9/3/2020	Person(s) Performing Inspection:	Chris Clough (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 type="checkbox"/>	<input checked="" type="checkbox"/>	No protective cap at this parcel.	
	Are the rills within a 10-foot interval?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Have gullies developed deeper than 6 inches?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Have animals created burrows in the protective cap?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Have vehicles damaged the protective cap?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" type="checkbox"/>		
Any visible ACM along the perimeter of the Site (where applicable)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	One piece of suspected ACM (C.A.B.) was located on the roadway. It was approximately 1 square inch. The piece was placed in an asbestos sample bag and removed.		
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 type="checkbox"/>	<input checked="" type="checkbox"/>		
	Evidence of trees and shrubs in distress?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Are there any stressed or dying trees that may impact or damage the protective when felled?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		



## Operations and Maintenance Inspection Form

Ditches and Culverts	Obstructions observed in ditches or culverts that may impede conveyance of stormwater?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Damaged observed to riprap surface? Note if riprap is not intact or not effectively providing armor protection.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" type="checkbox"/>		
	Are culvert inlets and outlets damaged?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Driveways and Walkways	Are the driveways showing signs of failure? (i.e., alligator cracking)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Road is gravel and dirt	
	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 checked="" type="checkbox"/>	<input type="checkbox"/>	Gate is in place and locked	
	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 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"/>		

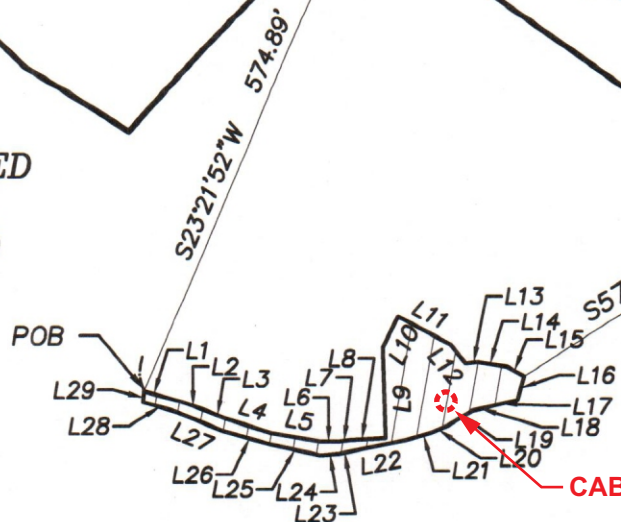
# EXHIBIT MAP

PARCEL 1, LP 02-19  
ACM PICK UP AREA

LOT 18  
TRACT 1306

UNSURVEYED  
PARCEL 1  
LP 02-19

NORTH RIDGE DRIVE



PARCEL 1  
LP 28-18

Line Table

Line #	Direction	Length
L1	S73°50'17"E	39.10'
L2	S70°11'11"E	30.92'
L3	S67°08'23"E	19.39'
L4	S72°46'09"E	50.85'
L5	S80°04'37"E	52.79'
L6	S89°25'28"E	17.37'
L7	N81°26'14"E	12.45'
L8	N86°47'22"E	37.44'
L9	N01°31'12"W	93.90'
L10	N26°19'39"E	36.10'
L11	S61°34'20"E	61.89'
L12	S39°56'15"E	25.23'
L13	N82°52'46"E	11.99'
L14	S81°21'23"E	31.40'
L15	S60°08'11"E	20.58'

Line Table

Line #	Direction	Length
L16	S15°22'01"W	25.74'
L17	S75°44'46"W	30.00'
L18	S77°51'10"W	18.58'
L19	S59°43'21"W	30.74'
L20	S67°08'23"W	19.41'
L21	S73°50'52"W	26.65'
L22	S79°00'16"W	59.57'
L23	S77°39'00"W	10.92'
L24	S85°06'15"W	19.61'
L25	N77°34'10"W	55.22'
L26	N74°14'55"W	50.84'
L27	N67°37'59"W	51.39'
L28	N73°35'01"W	36.52'
L29	N05°26'39"E	11.77'



1"=200'

REGISTERED  
PROFESSIONAL  
LAND SURVEYOR

*Keith R. Rhine*

OREGON  
JULY 11, 2000  
KEITH R. RHINE  
58985

RENEWAL DATE: 12-31-20

**R-C**  
RHINE-CROSS  
GROUP

**RHINE-CROSS GROUP LLC**

ENGINEERING - SURVEYING - PLANNING  
112 N 5th ST - SUITE 200 - P.O. BOX 909  
KLAMATH FALLS, OREGON 97601

Phone: (541) 851-9405

Fax: (541) 273-9200

admin@rc-grp.com





View of the Antenna Road Surface Pickup Area from the northern corner, looking SE.



View of the Antenna Road Surface Pickup Area from the east corner, looking west.





View of the Antenna Road Surface Pickup Area from the southern edge looking north.



View of the Antenna Road Surface Pickup Area from the western edge looking east.





One piece of concrete asbestos board (CAB) was located during inspection. It was approximately 1" square.



The piece of CAB was placed in a sample bag and removed from the site.





View from the Antenna Road Surface Pickup Area, looking west along the roadway.



View up the roadway to the west.



***Parcel BL***

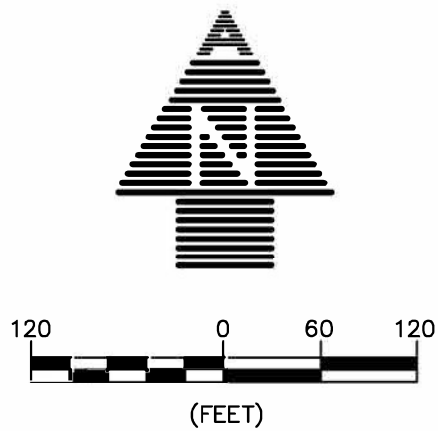
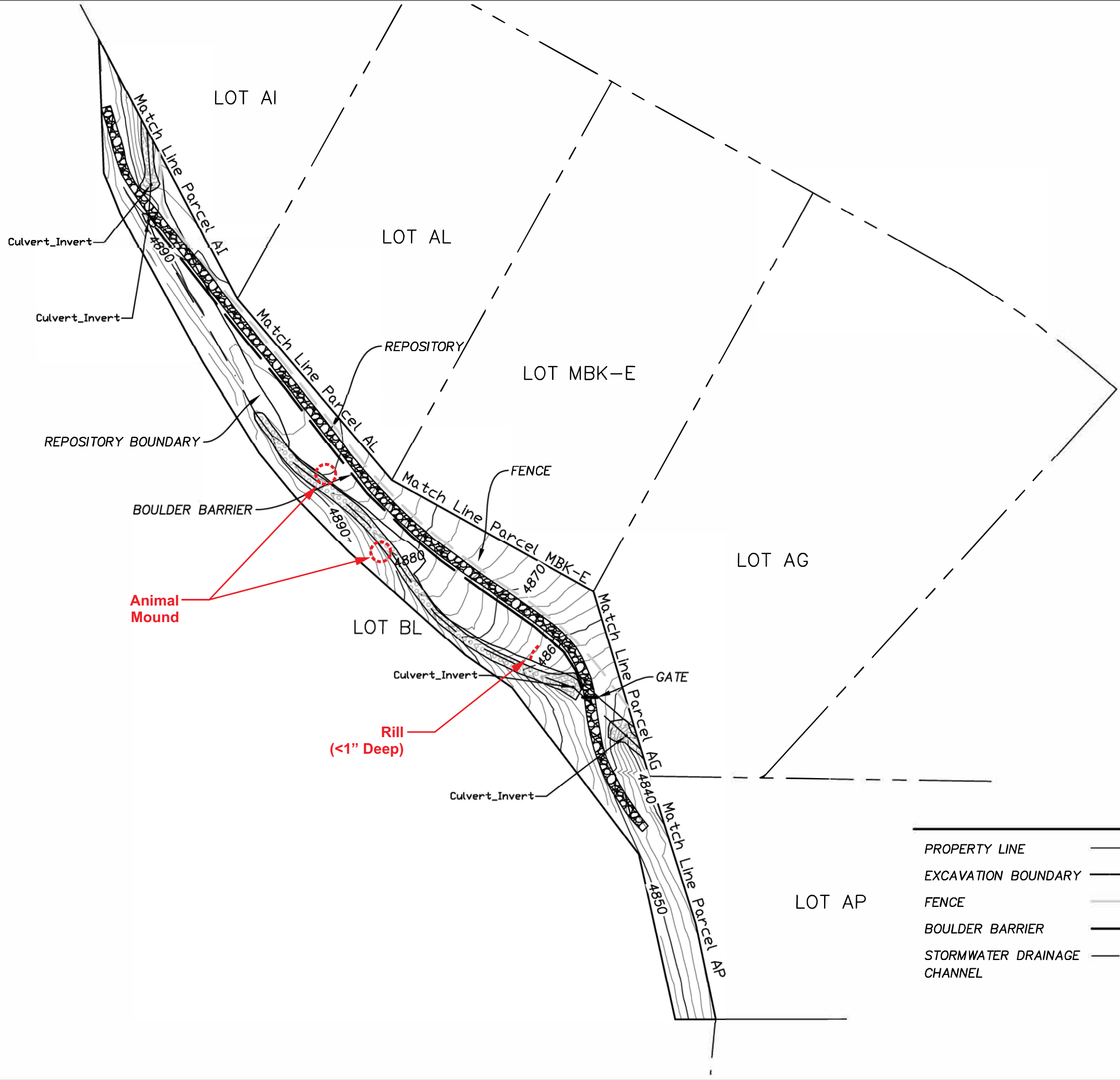
## Operations and Maintenance Inspection Form

Part I. General Site Information							
Site Name:	North Ridge Estates	State/County:	Oregon (Klamath County)	Parcel/Tax ID:	Parcel BL		
EPA Point of Contact	Linda Meyer (206) 553-6636	ODEQ Point of Contact	Katie Daugherty (541) 229-6748				
Inspection Date:	9/1 and 9/3/2020	Person(s) Performing Inspection:	Chris Clough (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"/>	One rill notes, less than 1" deep.	
	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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Have animals created burrows in the protective cap?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Limited animal burrows noted. Not requiring repair, but should be followed up on during subsequent inspections.	
	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"/>	Limited vegetation established where heavy mulch was placed.	
	Evidence of trees and shrubs in distress?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	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"/>		



## Operations and Maintenance Inspection Form

Ditches and Culverts	Obstructions observed in ditches or culverts that may impede conveyance of stormwater?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	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 of failure? (i.e., alligator cracking)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Driving surfaces are 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 checked="" type="checkbox"/>	<input type="checkbox"/>	Gate is in place and good condition.	
	Are changes to the access controls needed?	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input 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"/>		



REGISTERED  
PROFESSIONAL  
LAND SURVEYOR

*Daniel J. O'Connor*

OREGON  
MAY 20, 2015  
DANIEL J. O'CONNOR  
90081

RENEWAL DATE 01/01/21

LEGEND			
PROPERTY LINE	---	OVERSIZED MATERIAL	
EXCAVATION BOUNDARY	---		
FENCE	---	GRAVEL ROAD	
BOULDER BARRIER	---		
STORMWATER DRAINAGE CHANNEL	---		

NORTH RIDGE ESTATES SUPERFUND SITE		LOT BL		FINAL LIFT		TOPOGRAPHIC SURVEY	
ADKINS CONSULTING ENGINEERING, LLP		ADKINS CONSULTING ENGINEERING, LLP		ADKINS CONSULTING ENGINEERING, LLP		ADKINS CONSULTING ENGINEERING, LLP	
1435 Eaglehawk Ave · Klamath Falls, Oregon 97601 · (541) 884-4886 · FAX (541) 884-5335		1435 Eaglehawk Ave · Klamath Falls, Oregon 97601 · (541) 884-4886 · FAX (541) 884-5335		1435 Eaglehawk Ave · Klamath Falls, Oregon 97601 · (541) 884-4886 · FAX (541) 884-5335		1435 Eaglehawk Ave · Klamath Falls, Oregon 97601 · (541) 884-4886 · FAX (541) 884-5335	
DATE: 3/18/2019		PROJECT: 3405-01		FILE: PLAN		DESIGNED BY: DJO	
DRAWN BY: ZEF		CHECKED BY: DJO		SURVEYED BY: DNN		SCALE: AS SHOWN	
BL.6							







View of the southern end of the removal/cap area of Parcel BL.



View of the southern end of the removal area/cap for Parcel BL, looking north.





A straw wattle was located adjacent to the crest of the slope next to the southern culvert.



An access gate was present and locked during the site visit.





Heavy mulching was added to the western edge of the drainage ditch.  
Vegetation in this area was sparse.



Two culverts were located during the BL inspection, this is the northern end of  
the southern culvert.





Two culverts were located during the BL inspection, this is the southern end of the northern culvert.



View of the northwestern end of the southern portion of the BL removal area/cap (looking northwest).





View of the northwestern end of the southern portion of the BL removal area/cap (looking southeast).



Some soil mounds caused by animal activity were located adjacent to the drainage ditch.





View of the northern end of the northern portion of the removal area/cap for Parcel BL (looking southwest from the northern corner).



View of the northern edge of the removal area/cap, adjacent to North Ridge Drive.





View of the northern edge of the removal area/cap, adjacent to North Ridge Drive.



View looking south along the edge of the northern removal area/cap for Parcel BL, from the NW corner.





Cap soils at one location have settled vs. the native grade.



View looking south along the edge of the northern removal area/cap for Parcel BL.

***Parcel MBK-F***

## Operations and Maintenance Inspection Form

Part I. General Site Information							
Site Name:	North Ridge Estates	State/County:	Oregon (Klamath County)	Parcel/Tax ID:	Parcel MBK-F		
EPA Point of Contact	Linda Meyer (206) 553-6636	ODEQ Point of Contact	Katie Daugherty (541) 229-6748				
Inspection Date:	9/3/2020	Person(s) Performing Inspection:	Chris Clough (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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	One gully located that ranged from 4-6" deep. It is adjacent to the edge of the cap/removal area and may be caused by soil settling vs the native grade.	
	Have animals created burrows in the protective cap?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Animal burrows noted on the southern edge of the removal area/cap. Will monitor to confirm burrows do not damage cap.	
	Have vehicles damaged the protective cap?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tire tracks were noted on the property and on Parcel D. Appears to be caused by ATV or riding lawn mower.	
	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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	One newly planted tree is stressed/dying.	
	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"/>		



## Operations and Maintenance Inspection Form

Ditches and Culverts	Obstructions observed in ditches or culverts that may impede conveyance of stormwater?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	Damaged observed to riprap surface? Note if riprap is not intact or not effectively providing armor protection.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" 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"/>		
	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 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"/>		







A gully formed along the eastern edge of the property, view from the southern corner.



View of the soil cap compared to the native grade.





View of the southern portion of the property from the southern corner.



View of the western edge of the property from the SW corner of the property.





Tire tracks were located in the western portion of the property.



View of the western edge of the property from the norther corner.





View of the NE edge of the property from the northern corner.



View of the edge of the property along North Ridge Drive.





View of the eastern portion of the property looking south.



View of the northern portion of the property looking west.

***Swimming Pool Repository and Park (Parcel AG,  
AL, MBK-E, and AI)***

## Operations and Maintenance Inspection Form

Part I. General Site Information							
Site Name:	North Ridge Estates		State/County:	Oregon (Klamath County)		Parcel/Tax ID:	Swimming Pool Repository and Park (Parcel AG, AL, MBK-E, and AI)
EPA Point of Contact	Linda Meyer (206) 553-6636		ODEQ Point of Contact	Katie Daugherty (541) 229-6748			
Inspection Date:			Person(s) Performing Inspection:	Chris Clough (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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rills located along the northern edge and southern portion of the SPR.	
	Are the rills within a 10-foot interval?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See note above.	
	Have gullies developed deeper than 6 inches?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A rill on the southern portion of the SPR becomes a gully as it descends the southern slope.	
	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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	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"/>		

## Operations and Maintenance Inspection Form

Ditches and Culverts	Obstructions observed in ditches or culverts that may impede conveyance of stormwater?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Culverts along the northern edge which North Ridge Drive are partially obstructed.	
	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 checked="" type="checkbox"/>	<input type="checkbox"/>		
	Are there any other signs of considerable damage to paved surfaces, other than normal wear and use?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>		
	Are changes to the access controls needed?	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input 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"/>	The public park has been developed since the last as built drawing. The features of the park are not damaging to the cap.	
		<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"/>		









View along the NW edge of Parcel AI, looking toward North Ridge Drive.



View of the northern corner of AI, looking east.





View of the edge of Parcel AI and North Ridge Drive.



A drainage is present along the edge of AI and AL parcels.





At the northern edge where Parcel AI and AL meet North Ridge Drive appears to have been washed out and been repaired.



Several rills (approximately 2" deep) located along the drainage ditch between the SPR and North Ridge Drive.





Several rills (approximately 2" deep) located along the drainage ditch between the SPR and North Ridge Drive.



The fence around the SPR turns to the south away from North Ridge Drive, in the NW corner of Parcel AG.





The NE corner of Parcel AG is a Memorial Park for the U.S. Marines.



A stormwater culvert is present in the NW corner of Parcel AG.





The stormwater drainage continued to the SE just east of the SPR fence line.



View of the northern portion of the park located on Parcel AG.





The NW portion of the public park has limited vegetated cover.



A gully was located from the western edge of the park into the drainage ditch that separates the park from the SPR.





A previously repaired gully on the SPR.



View to the west along the southern fence of the SPR.





A gully was located at the western corner of Parcel AG.



View of the northern portion of the SPR at the edge of Parcels AG and MBK-E.





View of the SPR, looking west.



The gully located at the western corner of AG is a rill at the top of the slope and becomes a gully as it moved south.





View of the northern corner of the park located on Parcel AG.



View of the gazebo structure at the public park





View of the eastern portion of the park, looking east.



Within the fenced enclosure, limited vegetation is growing.





View of the southern portion of the park on Parcel AG.



Some of the rock-work placed on the gazebo is failing and coming off the structure.