

# Stewardship for Buckwater

Lead Steward: Neil

2022-09-09

## Boundary Issues

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## Channel Issues

Year	Subtype	Issue	Issue_Desc	Treatment
2021	Needs Livestakes		No live stakes	
2020	Channel Stability/Erosion	Erosion_Scour	severely eroded outside bend after bedrock drop area. Repaired by WLC on July 14 2021	Machine repair- installed boulder toe
2019	Failed Structure	Failed/Not Functional	Large failed log sill. Piping around right side	
2019	Failed Structure		failed log sill. Water flowing under	

## Vegetation Issues

Year	Issue	Issue_Desc	Treatment	Treat_Method_1
2021		Need tree release and some one gallon planting. Plan for planting ~50 containers, ring sprays, blackberry release, and amendments	brush cut blackberry.	Backpack Spray

Year	Issue	Issue_Desc	Treatment	Treat_Method_1
2021	Bare Areas & Low Stem Density	Continue seeding, amendments, and plant willow poles	Cover crop	
2021		Need tree release and some one gallon planting. Plan for planting ~50 containers, ring sprays, blackberry release, and amendments	follow up spray with 2.5% triclopyr	
2021	Bare Areas & Low Stem Density	Continue seeding, amendments, and plant willow poles	heavily seeded bare areas in P2 cuts with millet	
2021	Bare Areas & Low Stem Density	Continue seeding, amendments, and plant willow poles	planted 325 new stems. Added soil amendment mix to planting holes for containers	
2021	Low Stem Density	Dense tall fescue. Add 30 one gallons and ring spray	ring sprays	
2021	Bare Areas & Low Stem Density	Continue seeding, amendments, and plant willow poles	ring sprays- 2.5% glyphosate solution	
2021		Need tree release and some one gallon planting. Plan for planting ~50 containers, ring sprays, blackberry release, and amendments	Weedat blackberry around trees	Mow
2021	Low Stem Density	Needs about 25 more trees and ring sprays.		
2021	Low Stem Density	Old pond. Plant willows, elderberry, mulberry, and cottonwood. ~25 stems. Add live stakes along streams		
2021	Low Stem Density	Old field succession. Reduce sweet gum by 40%. Plan for blackberry release, 25 one gallons, and ring sprays		
2021	Low Stem Density	Needs 25 one gallons		
2021	Low Stem Vigor/Height & Density	Needs 20 one gallons. Add amendments now. Very few trees in veg plot		
2020		Old field succession dominating area. Low planted stem density persists after tree plantings in early 2021	40 new bare root and 1-gallon containers planted- 300 stem/acre rate	
2020		Old field succession dominating area. Low planted stem density persists after tree plantings in early 2021	Cleared blackberry heavily competing with trees	
2020	Low Stem Vigor/Height & Density	Need replant- 150 stems/acre. 105 new stems. old pond- take soil sample	planted 105 new stems	

Year	Issue	Issue_Desc	Treatment	Treat_Method_1
2020	Low Stem Density	Needs trees. Dense tall fescue needs ring sprays	Planted 110 new bare roots and 1-gallons	
2020		replant 250 stems/acre- 25 new stems. treat fescue	planted 25 stems	
2020	Low Stem Vigor/Height & Density	replant 175 stems/acre- 263 stems . treat dense tall fescue	planted 263 new stems	
2020	Low Stem Vigor/Height & Density	replant 150 stems/acre- 45 new stems. low groundcover. Few trees are low vigor	planted 45 new stems	
2020	Low Stem Vigor/Height & Density	Replant 200 stems/acre- 640 stems. dense tall fescue needs ring sprays	Planted 640 stems. Ring sprays	
2020		replant 250 stems/acre- 25 new stems. treat fescue	ring sprays	
2020	Low Stem Density	Needs trees. Dense tall fescue needs ring sprays	ring sprays	
2020	Low Stem Vigor/Height & Density	Replant. Needs 150 stems per acre. Needs ring sprays. One round of ring sprays was previously completed in early spring 2020	ring sprays	
2020	Low Stem Density	replant 250 stems/acre- 75 new stems. treat fescue	ring sprays	
2020	Low Stem Vigor/Height & Density	replant 175 stems/acre- 263 stems . treat dense tall fescue	ring sprays	
2020		replant 250 stems/acre- 25 new stems. treat fescue	ring sprays	
2020	Low Stem Vigor/Height & Density	Replant. Needs 150 stems per acre. Needs ring sprays. One round of ring sprays was previously completed in early spring 2020	Ring sprays	
2020		Old field succession dominating area. Low planted stem density persists after tree plantings in early 2021	ring sprays- 2.5% glyphosate	
2020	Low Stem Vigor/Height & Density	Replant 200 stems/acre- 640 stems. dense tall fescue needs ring sprays	Ring sprays. All N half. Some S half	
2020	Low Stem Vigor/Height & Density	replant 175 stems/acre- 420 new stems. Poor soils	soil amendments	
2020		replant 250 stems/acre- 25 new stems. treat fescue	tree planting	

Year	Issue	Issue_Desc	Treatment	Treat_Method_1
2020	Low Stem Vigor/Height & Density	Replant. Needs 150 stems per acre. Needs ring sprays. One round of ring sprays was previously completed in early spring 2020	tree planting	
2020	Low Stem Density	replant 250 stems/acre- 75 new stems. treat fescue	tree planting	
2020	Low Stem Vigor/Height & Density	replant 175 stems/acre- 298 new stems. Need ring sprays	tree planting	
2020	Low Stem Vigor/Height & Density	replant 175 stems/acre- 420 new stems. Poor soils	tree planting and soil amendments on every stem	
2020	Low Stem Vigor/Height & Density	Replant 200 stems/acre- 640 stems. dense tall fescue needs ring sprays		
2020	Low Stem Vigor/Height & Density	replant 150 stems/acre- 45 new stems. old haul road. trees damaged during repair		

## Weed Issues

Year	Species1	Issue	Treatment	Method	TreatDate
2021	Chinese Privet	large stems	Cut stump	Cut Stump	02/2021
2021	Chinese Privet	Scattered privet. Some treated previously in 2019			
2021	Johnson Grass	Dense. Flowering in July 2021			
2021	Multiflora Rose	in trees- maybe cut stump			
2021	Sweet Gum	Dense sweet gum. Reduce by 50%			
2021	Sweet Gum	Reduce by 50%			
2021	Tree Of Heaven	Several trees. Stem inject	Cut stump and stem injection. Some resprouts may occur in future. Need to check next year.	Stem Injection	09/2021

Year	Species1	Issue	Treatment	Method	TreatDate
2021	Tree Of Heaven	Sapling and pole sized. Mostly off CE	stem injection and cut stump. Neil	Stem Injection	10/2021
2019	Chinese Privet	cut stump			
2019	Multiflora Rose	Large clump. Treated spring 2021. Few shoots survive			
2019	Tree Of Heaven	2 large trees	stem injection. Two large stems	Stem Injection	09/2021
2019	Tree Of Heaven	Some large some sapling	stem injection	Stem Injection	09/2021

## Miscellaneous Issues

Year	Subtype	Issue_Desc
2019	Soil Sample	BW-B
2019	Soil Sample	BW-C