

Compensation Crediting Form (Form 3)

Unified Stream Methodology for use in Virginia

Project #	Project Name	Locality	Cowardin Class.	HUC	Date	Reach #	Reach Length			
102528	Green Ridge Landfill - Martin Property				4/20/2020		878			
Name(s) of Evaluator(s)		Stream Name and Information								
BCLS		ST2T1								
								Preservation	Project Credits	
Restoration: Includes Priority 1, 2, and 3 restoration activities. Does not include buffer width.								Credit per foot	0	
List Reaches that will receive full Restoration:						Total length of Full Restoration		0	1	
						<small>Credits = Stream Length X 1.0</small>				
Enhancement With Instream Structures: Addressing Streambank Stability, Grade Control (Vaness, Weirs, Step-Pools), Constructed Riffles								Credit per foot		
Discuss Length Affected by Instream Structures (justify length):						Length Affected by Instream Structures		0.3	0	
						<small>Credits = Stream Length X 0.3</small>				
Enhancement: Addressing Streambank Stability, Entrenchment Ratios, Access to Floodplain										
Mitigation Categories										
Mechanical Bank Work					Biological Bank Work					
Credit Per Length					May Be Cumulative Per Length					
Pick One Per Length										
Activities	Habitat Structures	Create Bankfull Bench	Lay Back Banks	Bio-Remediation Techniques	Stream Bank Plantings					
Credit per foot per bank	0.1	0.15	0.1	0.1	0.09					
Right Bank	Length					0				
	Credit >	0.1	0.15	0.1	0.1	0.09				
Habitat Struct/bench lay back bank bio-remediation/plantings						CREDITS				
Left Bank	Length					0				
	Credit >	0.1	0.15	0.1	0.1	0.09	Rt Bank >	0.00	Credit	
						Lt Bank >	0.00	SUM of banks		
						<small>Σ (Length X Credit) for all areas (banks done separately)</small>				0
Riparian Areas: Assess the proposed 100 foot buffer on both banks based on the activity proposed. Enter the percentage of area and the credit below. (Widths of buffer above 100' will be determined below)										
Activities	Buffer Re-establishment (removal of invasives)	Buffer Planting - Heavy	Buffer Planting - Light	Preservation High Quality, Restoration, Enhancement	Preservation Low Quality	Buffer area not within preservation width				
Credit for 0'-100'	0.4	0.38	0.29	0.14	0.07	0				
Credit for beyond 100'	0.2	0.19	0.15	0.07		0				
Calculation of "Goal" riparian buffer for each side (SAR length times 100) >>>						87,800 square feet				
WITHIN FIRST 100' - Mitigation Categories										
One vegetative community maintained				Subtract 0.03		Ensure the sums of % Riparian Blocks equal 100				
Two vegetative communities maintained				Subtract 0.06						
Right Bank	Area #	1	2							
	Sq. Footage	69895								
	% Area	0%	80%	0%	0%	0%	80%			
	Credit >	0.38	0.14	0.4						
Heavy Plant Pres/Replant Invasives										
Left Bank	Area #									
	Sq. Footage	56949								
	% Area	0%	65%	0%	0%	0%	65%			
	Credit >	0.38	0.14	0.4						
						CREDITS				
						Rt Bank >	0.11	Credit		
						Lt Bank >	0.09	0.10		
						<small>Σ (% Area X Credit) for all areas (banks done separately)</small>				88
						<small>AVE of credit for banks X length of project</small>				
Outside First 100' - Mitigation Categories										
One vegetative community maintained				Subtract 0.03		Ensure the sums of % Riparian Blocks equal 100				
Two vegetative communities maintained				Subtract 0.06						
Right Bank	Area #									
	Sq. Footage									
	% Area	0%	0%	0%	0%	0%	0%			
	Credit >	0.19	0.07							
Heavy Plant Pres/Replant Invasives										
Left Bank	Area #									
	Sq. Footage									
	% Area	0%	0%	0	0	0	0%			
	Credit >	0.19	0.07	0.2						
						CREDITS				
						Rt Bank >	0.00	Credit		
						Lt Bank >	0.00	0.00		
						<small>Σ (% Area X Credit) for all areas (banks done separately)</small>				0
						<small>AVE of credit for banks X length of project</small>				
Adjustment Factors: These factors are applied as a multiplier to length of a reach for which they apply										
Adjustment Factor Categories										
Activity	Rare, Threatened, or Endangered Species or Communities	Livestock Exclusion	Watershed Preservation							
Credit	0.1 - 0.3	0.1 - 0.3	0.1 - 0.3							
Stream Length Affected										
Credit >										
<small>Credits are cumulative and can apply to more than one reach. Each reach can have more than one Adjustment Factors</small>										
						<small>Σ (Length X Credit) for all areas</small>				
Total Compensation Credit Provided by Project								88		

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Project #	Project Name	Locality	Cowardin Class.	HUC	Date	Reach #	Reach Length		
102528	Green Ridge Landfill - Martin Property				4/20/2020		1319		
Name(s) of Evaluator(s)		Stream Name and Information							
BCLS		ST3R1							
								Enhancement	Project Credits
Restoration: Includes Priority 1, 2, and 3 restoration activities. Does not include buffer width.								Credit per foot	0
List Reaches that will receive full Restoration:						Total length of Full Restoration		0	1
						<small>Credits = Stream Length X 1.0</small>			
Enhancement With Instream Structures: Addressing Streambank Stability, Grade Control (Vaness, Weirs, Step-Pools), Constructed Riffles								Credit per foot	
Discuss Length Affected by Instream Structures (justify length):						Length Affected by Instream Structures		500	0.3
						<small>Credits = Stream Length X 0.3</small>		150	
Enhancement: Addressing Streambank Stability, Entrenchment Ratios, Access to Floodplain									
Mitigation Categories									
Mechanical Bank Work				Biological Bank Work					
Credit Per Length				Pick One Per Length				May Be Cumulative Per Length	
Activities	Habitat Structures	Create Bankfull Bench	Lay Back Banks	Bio-Remediation Techniques	Stream Bank Plantings				
Credit per foot per bank	0.1	0.15	0.1	0.1	0.09				
Right Bank	Length	200	400	200	900	20			
	Credit >	0.1	0.15	0.1	0.09				
		Habitat Struct	bench	lay back bank	bio-remediation	plantings			
Left Bank	Length	200	400	200	900	20	Rt Bank >	161.00	Credit
	Credit >	0.1	0.15	0.1	0.09	Lt Bank >		161.00	SUM of banks
						<small>Σ (Length X Credit) for all areas (banks done separately)</small>		322	
Riparian Areas: Assess the proposed 100 foot buffer on both banks based on the activity proposed. Enter the percentage of area and the credit below. (Widths of buffer above 100' will be determined below)									
Activities	Buffer Re-establishment (removal of invasives)	Buffer Planting - Heavy	Buffer Planting - Light	Preservation High Quality, Restoration, Enhancement	Preservation Low Quality	Buffer area not within preservation width			
Credit for 0'-100'	0.4	0.38	0.29	0.14	0.07	0			
Credit for beyond 100'	0.2	0.19	0.15	0.07		0			
Calculation of "Goal" riparian buffer for each side (SAR length times 100) >>>						131,900 square feet			
WITHIN FIRST 100' - Mitigation Categories									
One vegetative community maintained				Subtract 0.03		Ensure the sums of % Riparian Blocks equal 100			
Two vegetative communities maintained				Subtract 0.06					
Right Bank	Area #	1	2						
	Sq. Footage	12572	110892						
	% Area	10%	84%	0%	0%	0%	94%		
	Credit >	0.38	0.14	0.4					
		Heavy Plant	Pres/Replant	Invasives					
Left Bank	Area #								
	Sq. Footage	16766	66004						
	% Area	13%	50%	0%	0%	0%	63%		
	Credit >	0.38	0.14	0.4					
						<small>Σ (Area X Credit) for all areas (banks done separately)</small>		185	
						<small>AVE of credit for banks X length of project</small>			
Outside First 100' - Mitigation Categories									
One vegetative community maintained				Subtract 0.03		Ensure the sums of % Riparian Blocks equal 100			
Two vegetative communities maintained				Subtract 0.06					
Right Bank	Area #								
	Sq. Footage								
	% Area	0%	0%	0%	0%	0%	0%		
	Credit >	0.19	0.07						
		Heavy Plant	Pres/Replant	Invasives					
Left Bank	Area #								
	Sq. Footage								
	% Area	0%	0%	0	0	0	0%		
	Credit >	0.19	0.07	0.2					
						<small>Σ (Area X Credit) for all areas (banks done separately)</small>		0	
						<small>AVE of credit for banks X length of project</small>			
Adjustment Factors: These factors are applied as a multiplier to length of a reach for which they apply									
Adjustment Factor Categories									
Activity	Rare, Threatened, or Endangered Species or Communities	Livestock Exclusion	Watershed Preservation					Record AF length /credit beneath the AF activity. Provide a narrative explanation of the applicable site conditions that warrant an adjustment and justify the AF credit chosen.	
Credit	0.1 - 0.3	0.1 - 0.3	0.1 - 0.3						
Stream Length Affected									
	Credit >						Credits >		0
<small>Credits are cumulative and can apply to more than one reach. Each reach can have more than one Adjustment Factors</small>						<small>Σ Length X Credit) for all areas</small>			
Total Compensation Credit Provided by Project								657	

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Project #	Project Name	Locality	Cowardin Class.	HUC	Date	Reach #	Reach Length		
102528	Green Ridge Landfill - Martin Property				4/20/2020		1159		
Name(s) of Evaluator(s)		Stream Name and Information							
BCLS		ST3R2							
								Restoration	Project Credits
Restoration: Includes Priority 1, 2, and 3 restoration activities. Does not include buffer width.								Credit per foot	1159
List Reaches that will receive full Restoration:						Total length of Full Restoration		1159	1
						<small>Credits = Stream Length X 1.0</small>			
Enhancement With Instream Structures: Addressing Streambank Stability, Grade Control (Vaness, Weirs, Step-Pools), Constructed Riffles								Credit per foot	
Discuss Length Affected by Instream Structures (justify length):						Length Affected by Instream Structures		0.3	0
						<small>Credits = Stream Length X 0.3</small>			
Enhancement: Addressing Streambank Stability, Entrenchment Ratios, Access to Floodplain									
Mitigation Categories									
Mechanical Bank Work				Biological Bank Work					
Credit Per Length				Pick One Per Length				May Be Cumulative Per Length	
Activities	Habitat Structures	Create Bankfull Bench	Lay Back Banks	Bio-Remediation Techniques	Stream Bank Plantings				
Credit per foot per bank	0.1	0.15	0.1	0.1	0.09				
Right Bank	Length						0		
	Credit >								
streambank habitat structures						CREDITS			
Left Bank	Length						0	Rt Bank > 0.00	Credit
	Credit >							Lt Bank > 0.00	SUM of banks
						<small>Σ (Length X Credit) for all areas (banks done separately)</small>			
								0	0
Riparian Areas: Assess the proposed 100 foot buffer on both banks based on the activity proposed. Enter the percentage of area and the credit below. (Widths of buffer above 100' will be determined below)									
Activities	Buffer Re-establishment (removal of invasives)	Buffer Planting - Heavy	Buffer Planting - Light	Preservation High Quality, Restoration, Enhancement	Preservation Low Quality	Buffer area not within preservation width			
Credit for 0'-100'	0.4	0.38	0.29	0.14	0.07	0			
Credit for beyond 100'	0.2	0.19	0.15	0.07		0			
Calculation of "Goal" riparian buffer for each side (SAR length times 100) >>>						115,900 square feet			
WITHIN FIRST 100' - Mitigation Categories									
One vegetative community maintained				Subtract 0.03		Ensure the sums of % Riparian Blocks equal 100			
Two vegetative communities maintained				Subtract 0.06					
Right Bank	Area #	1	2						
	Sq. Footage		119982						
	% Area	0%	104%	0%	0%	0%	0%	104%	
	Credit >	0.38	0.14	0.4					
Heavy Plant Pres/Replant Invasives									
Left Bank	Area #								
	Sq. Footage		87919						
	% Area	0%	76%	0%	0%	0%	0%	76%	
	Credit >	0.38	0.14	0.4					
CREDITS									
	Rt Bank >	0.11		Credit					
	Lt Bank >	0.11		0.13					
<small>Σ (% Area X Credit) for all areas (banks done separately)</small>						<small>AVE of credit for banks X length of project</small>			
								151	
Outside First 100' - Mitigation Categories									
One vegetative community maintained				Subtract 0.03		Ensure the sums of % Riparian Blocks equal 100			
Two vegetative communities maintained				Subtract 0.06					
Right Bank	Area #								
	Sq. Footage								
	% Area	0%	0%	0%	0%	0%	0%	0%	
	Credit >	0.19	0.07						
Heavy Plant Pres/Replant Invasives									
Left Bank	Area #								
	Sq. Footage								
	% Area	0%	0%	0	0	0	0	0%	
	Credit >	0.19	0.07	0.2					
CREDITS									
	Rt Bank >	0.00		Credit					
	Lt Bank >	0.00		0.00					
<small>Σ (% Area X Credit) for all areas (banks done separately)</small>						<small>AVE of credit for banks X length of project</small>			
								0	
Adjustment Factors: These factors are applied as a multiplier to length of a reach for which they apply									
Adjustment Factor Categories									
Activity	Rare, Threatened, or Endangered Species or Communities		Livestock Exclusion		Watershed Preservation			Record AF length /credit beneath the AF activity. Provide a narrative explanation of the applicable site conditions that warrant an adjustment and justify the AF credit chosen.	
Credit	0.1 - 0.3		0.1 - 0.3		0.1 - 0.3				
CREDITS									
						<small>Σ Length X Credit) for all areas</small>			
								0	
Total Compensation Credit Provided by Project								1310	

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Project #	Project Name	Locality	Cowardin Class.	HUC	Date	Reach #	Reach Length		
102528	Green Ridge Landfill - Martin Property				4/20/2020		1614		
Name(s) of Evaluator(s)		Stream Name and Information							
BCLS		ST3R3							
								Enhancement	Project Credits
Restoration: Includes Priority 1, 2, and 3 restoration activities. Does not include buffer width.								Credit per foot	0
List Reaches that will receive full Restoration:						Total length of Full Restoration		0	1
						<small>Credits = Stream Length X 1.0</small>			
Enhancement With Instream Structures: Addressing Streambank Stability, Grade Control (Vaness, Weirs, Step-Pools), Constructed Riffles								Credit per foot	
Discuss Length Affected by Instream Structures (justify length):						Length Affected by Instream Structures		600	0.3
						<small>Credits = Stream Length X 0.3</small>		180	
Enhancement: Addressing Streambank Stability, Entrenchment Ratios, Access to Floodplain									
Mitigation Categories									
Mechanical Bank Work					Biological Bank Work				
Credit Per Length					Pick One Per Length				
May Be Cumulative Per Length									
Activities	Habitat Structures	Create Bankfull Bench	Lay Back Banks	Bio-Remediation Techniques	Stream Bank Plantings				
Credit per foot per bank	0.1	0.15	0.1	0.1	0.09				
Right Bank	Length	400	800	400	800	40			
	Credit >	0.1	0.15	0.1	0.1	0.09			
		Habitat Struct	bench	lay back bank	bio-remediation plantings				
Left Bank	Length	400	800	400	800	40			
	Credit >	0.1	0.15	0.1	0.1	0.09			
						CREDITS			
						Rt Bank >	232.00	Credit	
						Lt Bank >	232.00	SUM of banks	
						<small>Σ (Length X Credit) for all areas (banks done separately)</small>		464	
Riparian Areas: Assess the proposed 100 foot buffer on both banks based on the activity proposed. Enter the percentage of area and the credit below. (Widths of buffer above 100' will be determined below)									
Activities	Buffer Re-establishment (removal of invasives)	Buffer Planting - Heavy	Buffer Planting - Light	Preservation High Quality, Restoration, Enhancement	Preservation Low Quality	Buffer area not within preservation width			
Credit for 0'-100'	0.4	0.38	0.29	0.14	0.07	0			
Credit for beyond 100'	0.2	0.19	0.15	0.07		0			
<small>Calculation of "Goal" riparian buffer for each side (SAR length times 100) >>></small>						161,400 square feet			
WITHIN FIRST 100' - Mitigation Categories									
One vegetative community maintained				Subtract 0.03	Ensure the sums of % Riparian Blocks equal 100				
Two vegetative communities maintained				Subtract 0.06					
Right Bank	Area #	1	2						
	Sq. Footage	144420							
	% Area	0%	89%	0%	0%	89%			
	Credit >	0.38	0.14	0.4					
		Heavy Plant Pres/Replant Invasives							
Left Bank	Area #								
	Sq. Footage	135845							
	% Area	0%	84%	0%	0%	84%			
	Credit >	0.38	0.14	0.4					
						CREDITS			
						Rt Bank >	0.13	Credit	
						Lt Bank >	0.12	0.13	210
						<small>Σ (% Area X Credit) for all areas (banks done separately)</small>		<small>AVE of credit for banks X length of project</small>	
Outside First 100' - Mitigation Categories									
One vegetative community maintained				Subtract 0.03	Ensure the sums of % Riparian Blocks equal 100				
Two vegetative communities maintained				Subtract 0.06					
Right Bank	Area #								
	Sq. Footage								
	% Area	0%	0%	0%	0%	0%			
	Credit >	0.19	0.07						
		Heavy Plant Pres/Replant Invasives							
Left Bank	Area #								
	Sq. Footage								
	% Area	0%	0%	0	0	0%			
	Credit >	0.19	0.07	0.2					
						CREDITS			
						Rt Bank >	0.00	Credit	
						Lt Bank >	0.00	0.00	0
						<small>Σ (% Area X Credit) for all areas (banks done separately)</small>		<small>AVE of credit for banks X length of project</small>	
Adjustment Factors: These factors are applied as a multiplier to length of a reach for which they apply									
Adjustment Factor Categories									
Activity	Rare, Threatened, or Endangered Species or Communities			Livestock Exclusion		Watershed Preservation			
Credit	0.1 - 0.3			0.1 - 0.3		0.1 - 0.3			
						Credits >		0	
						<small>Σ Length X Credit) for all areas</small>			
Total Compensation Credit Provided by Project								854	

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Project #	Project Name	Locality	Cowardin Class.	HUC	Date	Reach #	Reach Length			
102528	Green Ridge Landfill - Martin Property				4/20/2020		218			
Name(s) of Evaluator(s)		Stream Name and Information								
BCLS		ST3T1								
								Enhancement	Project Credits	
Restoration: Includes Priority 1, 2, and 3 restoration activities. Does not include buffer width.								Credit per foot	0	
List Reaches that will receive full Restoration:						Total length of Full Restoration		0	1	
						<small>Credits = Stream Length X 1.0</small>				
Enhancement With Instream Structures: Addressing Streambank Stability, Grade Control (Vaness, Weirs, Step-Pools), Constructed Riffles								Credit per foot		
Discuss Length Affected by Instream Structures (justify length):						Length Affected by Instream Structures		50	0.3	
						<small>Credits = Stream Length X 0.3</small>				
Enhancement: Addressing Streambank Stability, Entrenchment Ratios, Access to Floodplain										
Mitigation Categories										
Mechanical Bank Work				Biological Bank Work						
Credit Per Length				Pick One Per Length				May Be Cumulative Per Length		
Activities	Habitat Structures	Create Bankfull Bench	Lay Back Banks	Bio-Remediation Techniques	Stream Bank Plantings					
Credit per foot per bank	0.1	0.15	0.1	0.1	0.09					
Right Bank	Length	50	50	50	100	5				
	Credit >	0.1	0.15	0.1	0.1	0.09				
		Habitat Struct/bench		lay back bank		bio-remediation		plantings		
Left Bank	Length	50	50	50	100	5	Rt Bank >	24.00	Credit	
	Credit >	0.1	0.15	0.1	0.1	0.09	Lt Bank >	24.00	SUM of banks	
						<small>Σ (Length X Credit) for all areas (banks done separately)</small>		48		
Riparian Areas: Assess the proposed 100 foot buffer on both banks based on the activity proposed. Enter the percentage of area and the credit below. (Widths of buffer above 100' will be determined below)										
Activities	Buffer Re-establishment (removal of invasives)	Buffer Planting - Heavy	Buffer Planting - Light	Preservation High Quality, Restoration, Enhancement	Preservation Low Quality	Buffer area not within preservation width				
Credit for 0'-100'	0.4	0.38	0.29	0.14	0.07	0				
Credit for beyond 100'	0.2	0.19	0.15	0.07	0	0				
Calculation of "Goal" riparian buffer for each side (SAR length times 100) >>>						21,800	square feet			
WITHIN FIRST 100' - Mitigation Categories										
One vegetative community maintained				Subtract 0.03	Ensure the sums of % Riparian Blocks equal 100					
Two vegetative communities maintained				Subtract 0.06						
Right Bank	Area #	1	2							
	Sq. Footage	1353	8217							
	% Area	6%	38%	0%	0%	0%	0%	44%		
	Credit >	0.38	0.14	0.4						
		Heavy Plant		Pres/Replant		Invasives				
Left Bank	Area #									
	Sq. Footage	7177	9770							
	% Area	33%	45%	0%	0%	0%	78%			
	Credit >	0.38	0.14	0.4						
						<small>Σ (% Area X Credit) for all areas (banks done separately)</small>		31		
						<small>AVE of credit for banks X length of project</small>				
Outside First 100' - Mitigation Categories										
One vegetative community maintained				Subtract 0.03	Ensure the sums of % Riparian Blocks equal 100					
Two vegetative communities maintained				Subtract 0.06						
Right Bank	Area #									
	Sq. Footage									
	% Area	0%	0%	0%	0%	0%	0%	0%		
	Credit >	0.19	0.07							
		Heavy Plant		Pres/Replant		Invasives				
Left Bank	Area #									
	Sq. Footage									
	% Area	0%	0%	0	0	0	0%			
	Credit >	0.19	0.07	0.2						
						<small>Σ (% Area X Credit) for all areas (banks done separately)</small>		0		
						<small>AVE of credit for banks X length of project</small>				
Adjustment Factors: These factors are applied as a multiplier to length of a reach for which they apply										
Adjustment Factor Categories										
Activity	Rare, Threatened, or Endangered Species or Communities	Livestock Exclusion	Watershed Preservation							
Credit	0.1 - 0.3	0.1 - 0.3	0.1 - 0.3							
						<small>Σ Length X Credit for all areas</small>		0		
						<small>Σ (Length X Credit) for all areas</small>				
Total Compensation Credit Provided by Project								94		

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Project #	Project Name	Locality	Cowardin Class.	HUC	Date	Reach #	Reach Length			
102528	Green Ridge Landfill - Martin Property				4/20/2020		574			
Name(s) of Evaluator(s)		Stream Name and Information								
BCLS		ST3T2R1								
								Enhancement	Project Credits	
Restoration: Includes Priority 1, 2, and 3 restoration activities. Does not include buffer width.								Credit per foot	0	
List Reaches that will receive full Restoration:						Total length of Full Restoration		0	1	
						<small>Credits = Stream Length X 1.0</small>				
Enhancement With Instream Structures: Addressing Streambank Stability, Grade Control (Vanes, Weirs, Step-Pools), Constructed Riffles								Credit per foot		
Discuss Length Affected by Instream Structures (justify length):						Length Affected by Instream Structures		100	0.3	
						<small>Credits = Stream Length X 0.3</small>				
Enhancement: Addressing Streambank Stability, Entrenchment Ratios, Access to Floodplain										
Mitigation Categories										
Mechanical Bank Work				Biological Bank Work						
Credit Per Length				Pick One Per Length				May Be Cumulative Per Length		
Activities	Habitat Structures	Create Bankfull Bench	Lay Back Banks	Bio-Remediation Techniques	Stream Bank Plantings					
Credit per foot per bank	0.1	0.15	0.1	0.1	0.09					
Right Bank	Length		400	574	0					
	Credit >	0.1	0.15	0.1	0.09					
		Habitat Struct	bench	lay back bank	bio-remediation	plantings				
Left Bank	Length		400	574	0	Rt Bank >	91.66	Credit		
	Credit >	0.1	0.15	0.1	0.09	Lt Bank >	91.66	SUM of banks	183	
						<small>Σ (Length X Credit) for all areas (banks done separately)</small>				
Riparian Areas: Assess the proposed 100 foot buffer on both banks based on the activity proposed. Enter the percentage of area and the credit below. (Widths of buffer above 100' will be determined below)										
Activities	Buffer Re-establishment (removal of invasives)	Buffer Planting - Heavy	Buffer Planting - Light	Preservation High Quality, Restoration, Enhancement	Preservation Low Quality	Buffer area not within preservation width				
Credit for 0'-100'	0.4	0.38	0.29	0.14	0.07	0				
Credit for beyond 100'	0.2	0.19	0.15	0.07	0					
Calculation of "Goal" riparian buffer for each side (SAR length times 100) >>>						57,400 square feet				
WITHIN FIRST 100' - Mitigation Categories										
One vegetative community maintained				Subtract 0.03		Ensure the sums of % Riparian Blocks equal 100				
Two vegetative communities maintained				Subtract 0.06						
Right Bank	Area #	1	2							
	Sq. Footage		26897	26897						
	% Area	0%	47%	47%	0%	0%	0%	94%		
	Credit >	0.38	0.14	0.07						
		Heavy Plant	Pres/Replant	low qual						
Left Bank	Area #									
	Sq. Footage	12276	28991	28991						
	% Area	21%	51%	51%	0%	0%	0%	122%		
	Credit >	0.38	0.14	0.07						
						<small>Σ (% Area X Credit) for all areas (banks done separately)</small>				
						<small>AVE of credit for banks X length of project</small>				
		Rt Bank >	0.10		Credit					
		Lt Bank >	0.19		0.15		86			
Outside First 100' - Mitigation Categories										
One vegetative community maintained				Subtract 0.03		Ensure the sums of % Riparian Blocks equal 100				
Two vegetative communities maintained				Subtract 0.06						
Right Bank	Area #									
	Sq. Footage									
	% Area	0%	0%	0%	0%	0%	0%	0%		
	Credit >	0.19	0.07							
		Heavy Plant	Pres/Replant	Invasives						
Left Bank	Area #									
	Sq. Footage									
	% Area	0%	0%	0	0	0	0	0%		
	Credit >	0.19	0.07	0.2						
						<small>Σ (% Area X Credit) for all areas (banks done separately)</small>				
						<small>AVE of credit for banks X length of project</small>				
		Rt Bank >	0.00		Credit					
		Lt Bank >	0.00		0.00		0			
Adjustment Factors: These factors are applied as a multiplier to length of a reach for which they apply										
Adjustment Factor Categories										
Activity	Rare, Threatened, or Endangered Species or Communities	Livestock Exclusion	Watershed Preservation							
Credit	0.1 - 0.3	0.1 - 0.3	0.1 - 0.3							
						<small>Σ Length X Credit for all areas</small>				
						Credits >		0		
Total Compensation Credit Provided by Project								299		

Compensation Crediting Form (Form 3)

Unified Stream Methodology for use in Virginia

Project #	Project Name	Locality	Cowardin Class.	HUC	Date	Reach #	Reach Length			
102528	Green Ridge Landfill - Martin Property				4/20/2020		142			
Name(s) of Evaluator(s)		Stream Name and Information								
BCLS		ST3T2R2								
								Preservation	Project Credits	
Restoration: Includes Priority 1, 2, and 3 restoration activities. Does not include buffer width.								Credit per foot	0	
List Reaches that will receive full Restoration:						Total length of Full Restoration		0	1	
						<small>Credits = Stream Length X 1.0</small>				
Enhancement With Instream Structures: Addressing Streambank Stability, Grade Control (Vaness, Weirs, Step-Pools), Constructed Riffles								Credit per foot		
Discuss Length Affected by Instream Structures (justify length):						Length Affected by Instream Structures		0	0.3	
						<small>Credits = Stream Length X 0.3</small>				
Enhancement: Addressing Streambank Stability, Entrenchment Ratios, Access to Floodplain										
Mitigation Categories										
Mechanical Bank Work				Biological Bank Work						
Pick One Per Length				May Be Cumulative Per Length						
Credit Per Length										
Activities	Habitat Structures	Create Bankfull Bench	Lay Back Banks	Bio-Remediation Techniques	Stream Bank Plantings					
Credit per foot per bank	0.1	0.15	0.1	0.1	0.09					
Right Bank	Length					0				
	Credit >	0.1	0.15	0.1	0.1	0.09				
Habitat Struct/bench lay back bank bio-remediation/plantings						CREDITS				
Left Bank	Length					0	Rt Bank >	0.00	Credit	
	Credit >	0.1	0.15	0.1	0.1	0.09	Lt Bank >	0.00	SUM of banks	
						<small>Σ (Length X Credit) for all areas (banks done separately)</small>		0		
Riparian Areas: Assess the proposed 100 foot buffer on both banks based on the activity proposed. Enter the percentage of area and the credit below. (Widths of buffer above 100' will be determined below)										
Activities	Buffer Re-establishment (removal of invasives)	Buffer Planting - Heavy	Buffer Planting - Light	Preservation High Quality, Restoration, Enhancement	Preservation Low Quality	Buffer area not within preservation width				
Credit for 0'-100'	0.4	0.38	0.29	0.14	0.07	0				
Credit for beyond 100'	0.2	0.19	0.15	0.07	0					
Calculation of "Goal" riparian buffer for each side (SAR length times 100) >>>						14,200	square feet			
WITHIN FIRST 100' - Mitigation Categories										
One vegetative community maintained				Subtract 0.03	Ensure the sums of % Riparian Blocks equal 100					
Two vegetative communities maintained				Subtract 0.06						
Right Bank	Area #	1	2							
	Sq. Footage		17837							
	% Area	0%	126%	0%	0%	0%	0%	126%		
	Credit >	0.38	0.14	0.4						
Heavy Plant Pres/Replant Invasives						CREDITS				
Left Bank	Area #						Rt Bank >	0.18	Credit	
	Sq. Footage	0	11204				Lt Bank >	0.11	0.15	
	% Area	0%	79%	0%	0%	0%	79%			
	Credit >	0.38	0.14	0.4			Σ (% Area X Credit) for all areas (banks done separately)			
						<small>AVE of credit for banks X length of project</small>		21		
Outside First 100' - Mitigation Categories										
One vegetative community maintained				Subtract 0.03	Ensure the sums of % Riparian Blocks equal 100					
Two vegetative communities maintained				Subtract 0.06						
Right Bank	Area #									
	Sq. Footage									
	% Area	0%	0%	0%	0%	0%	0%	0%		
	Credit >	0.19	0.07							
Heavy Plant Pres/Replant Invasives						CREDITS				
Left Bank	Area #						Rt Bank >	0.00	Credit	
	Sq. Footage						Lt Bank >	0.00	0.00	
	% Area	0%	0%	0	0	0	0%			
	Credit >	0.19	0.07	0.2			Σ (% Area X Credit) for all areas (banks done separately)			
						<small>AVE of credit for banks X length of project</small>		0		
Adjustment Factors: These factors are applied as a multiplier to length of a reach for which they apply										
Adjustment Factor Categories										
Activity	Rare, Threatened, or Endangered Species or Communities		Livestock Exclusion		Watershed Preservation			Record AF length /credit beneath the AF activity. Provide a narrative explanation of the applicable site conditions that warrant an adjustment and justify the AF credit chosen.		
Credit	0.1 - 0.3		0.1 - 0.3		0.1 - 0.3					
								Credits >	0	
								<small>Σ Length X Credit) for all areas</small>		
Total Compensation Credit Provided by Project								21		

Compensation Crediting Form (Form 3)

Unified Stream Methodology for use in Virginia

Project #	Project Name	Locality	Cowardin Class.	HUC	Date	Reach #	Reach Length			
102528	Green Ridge Landfill - Martin Property				4/20/2020		441			
Name(s) of Evaluator(s)		Stream Name and Information								
BCLS		ST3T2R3								
Restoration: Includes Priority 1, 2, and 3 restoration activities. Does not include buffer width.								Credit per foot	441	
List Reaches that will receive full Restoration:								Total length of Full Restoration	441	1
								<small>Credits = Stream Length X 1.0</small>		
Enhancement With Instream Structures: Addressing Streambank Stability, Grade Control (Vaness, Weirs, Step-Pools), Constructed Riffles								Credit per foot		
Discuss Length Affected by Instream Structures (justify length):								Length Affected by Instream Structures	0	0.3
								<small>Credits = Stream Length X 0.3</small>		
Enhancement: Addressing Streambank Stability, Entrenchment Ratios, Access to Floodplain										
Mitigation Categories										
Mechanical Bank Work				Biological Bank Work						
Credit Per Length				Pick One Per Length				May Be Cumulative Per Length		
Activities	Habitat Structures	Create Bankfull Bench	Lay Back Banks	Bio-Remediation Techniques	Stream Bank Plantings					
Credit per foot per bank	0.1	0.15	0.1	0.1	0.09					
Right Bank	Length							0		
	Credit >	0.1	0.15	0.1	0.1	0.09				
Habitat Struct/bench lay back bank bio-remediation/plantings								CREDITS		
Left Bank	Length						Rt Bank >	0.00	Credit	
	Credit >	0.1	0.15	0.1	0.1	0.09	Lt Bank >	0.00	SUM of banks	
								<small>Σ (Length X Credit) for all areas (banks done separately)</small>		
								0		
Riparian Areas: Assess the proposed 100 foot buffer on both banks based on the activity proposed. Enter the percentage of area and the credit below. (Widths of buffer above 100' will be determined below)										
Activities	Buffer Re-establishment (removal of invasives)	Buffer Planting - Heavy	Buffer Planting - Light	Preservation High Quality, Restoration, Enhancement	Preservation Low Quality	Buffer area not within preservation width				
Credit for 0'-100'	0.4	0.38	0.29	0.14	0.07	0				
Credit for beyond 100'	0.2	0.19	0.15	0.07		0				
Calculation of "Goal" riparian buffer for each side (SAR length times 100') >>>								44,100 square feet		
WITHIN FIRST 100' - Mitigation Categories										
One vegetative community maintained				Subtract 0.03		Ensure the sums of % Riparian Blocks equal 100				
Two vegetative communities maintained				Subtract 0.06						
Right Bank	Area #	1	2							
	Sq. Footage	22118	13339							
	% Area	50%	30%	0%	0%	0%			80%	
	Credit >	0.38	0.14	0.4						
Heavy Plant Pres/Replant Invasives								CREDITS		
Left Bank	Area #						Rt Bank >	0.23	Credit	
	Sq. Footage	0	31396				Lt Bank >	0.10	0.17	
	% Area	0%	71%	0%	0%	0%	71%			
	Credit >	0.38	0.14	0.4						
Heavy Plant Pres/Replant Invasives								<small>Σ (% Area X Credit) for all areas (banks done separately)</small>		
AVE of credit for banks X length of project								75		
Outside First 100' - Mitigation Categories										
One vegetative community maintained				Subtract 0.03		Ensure the sums of % Riparian Blocks equal 100				
Two vegetative communities maintained				Subtract 0.06						
Right Bank	Area #									
	Sq. Footage									
	% Area	0%	0%	0%	0%	0%			0%	
	Credit >	0.19	0.07							
Heavy Plant Pres/Replant Invasives								CREDITS		
Left Bank	Area #						Rt Bank >	0.00	Credit	
	Sq. Footage						Lt Bank >	0.00	0.00	
	% Area	0%	0%	0	0	0	0%			
	Credit >	0.19	0.07	0.2						
Heavy Plant Pres/Replant Invasives								<small>Σ (% Area X Credit) for all areas (banks done separately)</small>		
AVE of credit for banks X length of project								0		
Adjustment Factors: These factors are applied as a multiplier to length of a reach for which they apply										
Adjustment Factor Categories										
Activity	Rare, Threatened, or Endangered Species or Communities	Livestock Exclusion	Watershed Preservation							
Credit	0.1 - 0.3	0.1 - 0.3	0.1 - 0.3							
								Credits >		
								0		
								<small>Σ Length X Credit for all areas</small>		
Total Compensation Credit Provided by Project								516		

Compensation Crediting Form (Form 3)

Unified Stream Methodology for use in Virginia

Project #	Project Name	Locality	Cowardin Class.	HUC	Date	Reach #	Reach Length		
102528	Green Ridge Landfill - Martin Property				4/20/2020		240		
Name(s) of Evaluator(s)		Stream Name and Information							
BCLS		ST3T3							
								Enhancement	Project Credits
Restoration: Includes Priority 1, 2, and 3 restoration activities. Does not include buffer width.								Credit per foot	0
List Reaches that will receive full Restoration:						Total length of Full Restoration		0	1
						<small>Credits = Stream Length X 1.0</small>			
Enhancement With Instream Structures: Addressing Streambank Stability, Grade Control (Vaness, Weirs, Step-Pools), Constructed Riffles								Credit per foot	
Discuss Length Affected by Instream Structures (justify length):						Length Affected by Instream Structures		50	0.3
						<small>Credits = Stream Length X 0.3</small>		15	
Enhancement: Addressing Streambank Stability, Entrenchment Ratios, Access to Floodplain									
Mitigation Categories									
Mechanical Bank Work					Biological Bank Work				
Credit Per Length					May Be Cumulative Per Length				
Pick One Per Length									
Activities	Habitat Structures	Create Bankfull Bench	Lay Back Banks	Bio-Remediation Techniques	Stream Bank Plantings				
Credit per foot per bank	0.1	0.15	0.1	0.1	0.09				
Right Bank	Length	100	100	150	10				
	Credit >	0.1	0.1	0.1	0.09				
		Habitat Struct	bench	lay back bank	bio-remediation	plantings			
Left Bank	Length	100	100	150	10	Rt Bank >	33.50	Credit	
	Credit >	0.1	0.15	0.1	0.1	Lt Bank >	33.50	SUM of banks	67
<small>Σ (Length X Credit) for all areas (banks done separately)</small>									
Riparian Areas: Assess the proposed 100 foot buffer on both banks based on the activity proposed. Enter the percentage of area and the credit below. (Widths of buffer above 100' will be determined below)									
Activities	Buffer Re-establishment (removal of invasives)	Buffer Planting - Heavy	Buffer Planting - Light	Preservation High Quality, Restoration, Enhancement	Preservation Low Quality	Buffer area not within preservation width			
Credit for 0'-100'	0.4	0.38	0.29	0.14	0.07	0			
Credit for beyond 100'	0.2	0.19	0.15	0.07	0				
Calculation of "Goal" riparian buffer for each side (SAR length times 100) >>>						24,000	square feet		
WITHIN FIRST 100' - Mitigation Categories									
One vegetative community maintained				Subtract 0.03	Ensure the sums of % Riparian Blocks equal 100				
Two vegetative communities maintained				Subtract 0.06					
Right Bank	Area #	1	2						
	Sq. Footage		13184	13184					
	% Area	0%	55%	55%	0%	0%	0%	110%	5806.191266
	Credit >	0.38	0.14	0.07					
		Heavy Plant	Pres/Replant	low qual					
Left Bank	Area #								
	Sq. Footage	0	11612	11612					
	% Area	0%	48%	48%	0%	0%	0%	97%	
	Credit >	0.38	0.14	0.07					
CREDITS						Rt Bank >	0.12	Credit	
<small>Σ (% Area X Credit) for all areas (banks done separately)</small>						Lt Bank >	0.10	0.11	26
<small>AVE of credit for banks X length of project</small>									
Outside First 100' - Mitigation Categories									
One vegetative community maintained				Subtract 0.03	Ensure the sums of % Riparian Blocks equal 100				
Two vegetative communities maintained				Subtract 0.06					
Right Bank	Area #								
	Sq. Footage								
	% Area	0%	0%	0%	0%	0%	0%	0%	
	Credit >	0.19	0.07						
		Heavy Plant	Pres/Replant	Invasives					
Left Bank	Area #								
	Sq. Footage								
	% Area	0%	0%	0	0	0	0	0%	
	Credit >	0.19	0.07	0.2					
CREDITS						Rt Bank >	0.00	Credit	
<small>Σ (% Area X Credit) for all areas (banks done separately)</small>						Lt Bank >	0.00	0.00	0
<small>AVE of credit for banks X length of project</small>									
Adjustment Factors: These factors are applied as a multiplier to length of a reach for which they apply									
Adjustment Factor Categories									
Activity	Rare, Threatened, or Endangered Species or Communities	Livestock Exclusion	Watershed Preservation						
Credit	0.1 - 0.3	0.1 - 0.3	0.1 - 0.3						
								Credits >	0
<small>Σ Length X Credit for all areas</small>									
Total Compensation Credit Provided by Project								108	

Compensation Crediting Form (Form 3)

Unified Stream Methodology for use in Virginia

Project #	Project Name	Locality	Cowardin Class.	HUC	Date	Reach #	Reach Length		
102528	Green Ridge Landfill - Martin Property				4/20/2020		255		
Name(s) of Evaluator(s)		Stream Name and Information							
BCLS		ST3T4							
								Enhancement	Project Credits
Restoration: Includes Priority 1, 2, and 3 restoration activities. Does not include buffer width.								Credit per foot	0
List Reaches that will receive full Restoration:						Total length of Full Restoration		0	1
						<small>Credits = Stream Length X 1.0</small>			
Enhancement With Instream Structures: Addressing Streambank Stability, Grade Control (Vaness, Weirs, Step-Pools), Constructed Riffles								Credit per foot	
Discuss Length Affected by Instream Structures (justify length):						Length Affected by Instream Structures		50	0.3
						<small>Credits = Stream Length X 0.3</small>		15	
Enhancement: Addressing Streambank Stability, Entrenchment Ratios, Access to Floodplain									
Mitigation Categories									
Mechanical Bank Work					Biological Bank Work				
Credit Per Length					May Be Cumulative Per Length				
Pick One Per Length									
Activities	Habitat Structures	Create Bankfull Bench	Lay Back Banks	Bio-Remediation Techniques	Stream Bank Plantings				
Credit per foot per bank	0.1	0.15	0.1	0.1	0.09				
Right Bank	Length	100	100	150	10				
	Credit >	0.1	0.15	0.1	0.09				
		Habitat Struct	bench	lay back bank	bio-remediation	plantings			
Left Bank	Length	100	100	150	10	Rt Bank >	33.50	Credit	
	Credit >	0.1	0.15	0.1	0.09	Lt Bank >	33.50	SUM of banks	67
<small>Σ (Length X Credit) for all areas (banks done separately)</small>									
Riparian Areas: Assess the proposed 100 foot buffer on both banks based on the activity proposed. Enter the percentage of area and the credit below. (Widths of buffer above 100' will be determined below)									
Activities	Buffer Re-establishment (removal of invasives)	Buffer Planting - Heavy	Buffer Planting - Light	Preservation High Quality, Restoration, Enhancement	Preservation Low Quality	Buffer area not within preservation width			
Credit for 0'-100'	0.4	0.38	0.29	0.14	0.07	0			
Credit for beyond 100'	0.2	0.19	0.15	0.07	0	0			
<small>Calculation of "Goal" riparian buffer for each side (SAR length times 100) >>></small>									
25,600 square feet									
WITHIN FIRST 100' - Mitigation Categories									
One vegetative community maintained				Subtract 0.03	Ensure the sums of % Riparian Blocks equal 100				
Two vegetative communities maintained				Subtract 0.06					
Right Bank	Area #	1	2						
	Sq. Footage		15391	15391					
	% Area	0%	60%	60%	0%	0%	0%	121%	
	Credit >	0.38	0.14	0.07					
		Heavy Plant	Pres/Replant	low qual					
Left Bank	Area #								
	Sq. Footage	0	13425	13425					
	% Area	0%	53%	53%	0%	0%	0%	105%	
	Credit >	0.38	0.14	0.07					
<small>Σ (% Area X Credit) for all areas (banks done separately)</small>									
<small>AVE of credit for banks X length of project</small>									
31									
Outside First 100' - Mitigation Categories									
One vegetative community maintained				Subtract 0.03	Ensure the sums of % Riparian Blocks equal 100				
Two vegetative communities maintained				Subtract 0.06					
Right Bank	Area #								
	Sq. Footage								
	% Area	0%	0%	0%	0%	0%	0%	0%	
	Credit >	0.19	0.07						
		Heavy Plant	Pres/Replant	Invasives					
Left Bank	Area #								
	Sq. Footage								
	% Area	0%	0%	0	0	0	0	0%	
	Credit >	0.19	0.07	0.2					
<small>Σ (% Area X Credit) for all areas (banks done separately)</small>									
<small>AVE of credit for banks X length of project</small>									
0									
Adjustment Factors: These factors are applied as a multiplier to length of a reach for which they apply									
Adjustment Factor Categories									
Activity	Rare, Threatened, or Endangered Species or Communities	Livestock Exclusion	Watershed Preservation						
Credit	0.1 - 0.3	0.1 - 0.3	0.1 - 0.3						
								Credits >	0
<small>Σ Length X Credit for all areas</small>									
Total Compensation Credit Provided by Project								113	

Compensation Crediting Form (Form 3)

Unified Stream Methodology for use in Virginia

Project #	Project Name	Locality	Cowardin Class.	HUC	Date	Reach #	Reach Length			
102528	Green Ridge Landfill - Martin Property				4/20/2020		1760			
Name(s) of Evaluator(s)		Stream Name and Information								
BCLS		ST3T5								
								Restoration	Project Credits	
Restoration: Includes Priority 1, 2, and 3 restoration activities. Does not include buffer width.								Credit per foot	1760	
List Reaches that will receive full Restoration:						Total length of Full Restoration		1760	1	
						<small>Credits = Stream Length X 1.0</small>				
Enhancement With Instream Structures: Addressing Streambank Stability, Grade Control (Vaness, Weirs, Step-Pools), Constructed Riffles								Credit per foot		
Discuss Length Affected by Instream Structures (justify length):						Length Affected by Instream Structures		0.3	0	
						<small>Credits = Stream Length X 0.3</small>				
Enhancement: Addressing Streambank Stability, Entrenchment Ratios, Access to Floodplain										
Mitigation Categories										
Mechanical Bank Work				Biological Bank Work						
Credit Per Length				Pick One Per Length				May Be Cumulative Per Length		
Activities	Habitat Structures	Create Bankfull Bench	Lay Back Banks	Bio-Remediation Techniques	Stream Bank Plantings					
Credit per foot per bank	0.1	0.15	0.1	0.1	0.09					
Right Bank	Length					0				
	Credit >	0.1	0.15	0.1	0.1	0.09				
		Habitat Struct bench lay back bank bio-remediation plantings						CREDITS		
Left Bank	Length					0		Rt Bank >	0.00	
	Credit >	0.1	0.15	0.1	0.1	0.09	Lt Bank >	0.00	SUM of banks	
						<small>Σ (Length X Credit) for all areas (banks done separately)</small>		0		
Riparian Areas: Assess the proposed 100 foot buffer on both banks based on the activity proposed. Enter the percentage of area and the credit below. (Widths of buffer above 100' will be determined below)										
Activities	Buffer Re-establishment (removal of invasives)	Buffer Planting - Heavy	Buffer Planting - Light	Preservation High Quality, Restoration, Enhancement	Preservation Low Quality	Buffer area not within preservation width				
Credit for 0'-100'	0.4	0.38	0.29	0.14	0.07	0				
Credit for beyond 100'	0.2	0.19	0.15	0.07	0	0				
Calculation of "Goal" riparian buffer for each side (SAR length times 100') >>>						176,000		square feet		
WITHIN FIRST 100' - Mitigation Categories										
One vegetative community maintained				Subtract 0.03		Ensure the sums of % Riparian Blocks equal 100				
Two vegetative communities maintained				Subtract 0.06						
Right Bank	Area #	1	2							
	Sq. Footage	3221	140600							
	% Area	2%	80%	0%	0%	0%	0%	82%		
	Credit >	0.38	0.14	0.4						
		Heavy Plant Pres/Replant Invasives						CREDITS		
Left Bank	Area #							Rt Bank >	0.12	
	Sq. Footage	41111	125839					Lt Bank >	0.19	
	% Area	23%	71%	0%	0%	0%	0%	0.16	282	
	Credit >	0.38	0.14	0.4				<small>Σ (% Area X Credit) for all areas (banks done separately)</small>		
						<small>AVE of credit for banks X length of project</small>				
Outside First 100' - Mitigation Categories										
One vegetative community maintained				Subtract 0.03		Ensure the sums of % Riparian Blocks equal 100				
Two vegetative communities maintained				Subtract 0.06						
Right Bank	Area #									
	Sq. Footage									
	% Area	0%	0%	0%	0%	0%	0%	0%		
	Credit >	0.19	0.07							
		Heavy Plant Pres/Replant Invasives						CREDITS		
Left Bank	Area #							Rt Bank >	0.00	
	Sq. Footage							Lt Bank >	0.00	
	% Area	0%	0%	0	0	0	0	0.00	0	
	Credit >	0.19	0.07	0.2				<small>Σ (% Area X Credit) for all areas (banks done separately)</small>		
						<small>AVE of credit for banks X length of project</small>				
Adjustment Factors: These factors are applied as a multiplier to length of a reach for which they apply										
Adjustment Factor Categories										
Activity	Rare, Threatened, or Endangered Species or Communities	Livestock Exclusion	Watershed Preservation					Record AF length /credit beneath the AF activity. Provide a narrative explanation of the applicable site conditions that warrant an adjustment and justify the AF credit chosen.		
Credit	0.1 - 0.3	0.1 - 0.3	0.1 - 0.3							
						<small>Σ Length X Credit for all areas</small>		Credits >	0	
Total Compensation Credit Provided by Project								2042		

Compensation Crediting Form (Form 3)

Unified Stream Methodology for use in Virginia

Project #	Project Name	Locality	Cowardin Class.	HUC	Date	Reach #	Reach Length		
102528	Green Ridge Landfill - Martin Property				4/20/2020		365		
Name(s) of Evaluator(s)		Stream Name and Information							
BCLS		ST3T6							
								Preservation	Project Credits
Restoration: Includes Priority 1, 2, and 3 restoration activities. Does not include buffer width.								Credit per foot	0
List Reaches that will receive full Restoration:						Total length of Full Restoration		0	1
						<small>Credits = Stream Length X 1.0</small>			
Enhancement With Instream Structures: Addressing Streambank Stability, Grade Control (Vaness, Weirs, Step-Pools), Constructed Riffles								Credit per foot	
Discuss Length Affected by Instream Structures (justify length):						Length Affected by Instream Structures		0.3	0
						<small>Credits = Stream Length X 0.3</small>			
Enhancement: Addressing Streambank Stability, Entrenchment Ratios, Access to Floodplain									
Mitigation Categories									
Mechanical Bank Work					Biological Bank Work				
Credit Per Length					Pick One Per Length				
May Be Cumulative Per Length									
Activities	Habitat Structures	Create Bankfull Bench	Lay Back Banks	Bio-Remediation Techniques	Stream Bank Plantings				
Credit per foot per bank	0.1	0.15	0.1	0.1	0.09				
Right Bank	Length					0			
	Credit >	0.1	0.15	0.1	0.1	0.09			
Habitat Struct/bench lay back bank bio-remediation/plantings						CREDITS			
Left Bank	Length					0	Rt Bank >	0.00	Credit
	Credit >	0.1	0.15	0.1	0.1	0.09	Lt Bank >	0.00	SUM of banks
						<small>Σ (Length X Credit) for all areas (banks done separately)</small>			
						0			
Riparian Areas: Assess the proposed 100 foot buffer on both banks based on the activity proposed. Enter the percentage of area and the credit below. (Widths of buffer above 100' will be determined below)									
Activities	Buffer Re-establishment (removal of invasives)	Buffer Planting - Heavy	Buffer Planting - Light	Preservation High Quality, Restoration, Enhancement	Preservation Low Quality	Buffer area not within preservation width			
Credit for 0'-100'	0.4	0.38	0.29	0.14	0.07	0			
Credit for beyond 100'	0.2	0.19	0.15	0.07	0	0			
Calculation of "Goal" riparian buffer for each side (SAR length times 100') >>>						36,500 square feet			
WITHIN FIRST 100' - Mitigation Categories									
One vegetative community maintained				Subtract 0.03	Ensure the sums of % Riparian Blocks equal 100				
Two vegetative communities maintained				Subtract 0.06					
Right Bank	Area #	1	2						
	Sq. Footage		18181						
	% Area	0%	50%	0%	0%	0%	50%		
	Credit >	0.38	0.14	0.4					
Heavy Plant Pres/Replant Invasives						CREDITS			
Left Bank	Area #						Rt Bank >	0.07	Credit
	Sq. Footage	0	39435				Lt Bank >	0.15	0.11
	% Area	0%	108%	0%	0%	0%	108%		
	Credit >	0.38	0.14	0.4					
						<small>Σ (% Area X Credit) for all areas (banks done separately)</small>			
						<small>AVE of credit for banks X length of project</small>			
						40			
Outside First 100' - Mitigation Categories									
One vegetative community maintained				Subtract 0.03	Ensure the sums of % Riparian Blocks equal 100				
Two vegetative communities maintained				Subtract 0.06					
Right Bank	Area #								
	Sq. Footage								
	% Area	0%	0%	0%	0%	0%	0%		
	Credit >	0.19	0.07						
Heavy Plant Pres/Replant Invasives						CREDITS			
Left Bank	Area #						Rt Bank >	0.00	Credit
	Sq. Footage						Lt Bank >	0.00	0.00
	% Area	0%	0%	0	0	0	0%		
	Credit >	0.19	0.07	0.2					
						<small>Σ (% Area X Credit) for all areas (banks done separately)</small>			
						<small>AVE of credit for banks X length of project</small>			
						0			
Adjustment Factors: These factors are applied as a multiplier to length of a reach for which they apply									
Adjustment Factor Categories									
Activity	Rare, Threatened, or Endangered Species or Communities			Livestock Exclusion		Watershed Preservation			
Credit	0.1 - 0.3			0.1 - 0.3		0.1 - 0.3			
						Credits >			
						0			
						<small>Σ Length X Credit for all areas</small>			
						Total Compensation Credit Provided by Project			
						40			

Compensation Crediting Form (Form 3)

Unified Stream Methodology for use in Virginia

Project #	Project Name	Locality	Cowardin Class.	HUC	Date	Reach #	Reach Length			
102528	Green Ridge Landfill - Martin Property				4/20/2020		838			
Name(s) of Evaluator(s)		Stream Name and Information								
BCLS		ST4R1								
								Enhancement	Project Credits	
Restoration: Includes Priority 1, 2, and 3 restoration activities. Does not include buffer width.								Credit per foot	0	
List Reaches that will receive full Restoration:						Total length of Full Restoration		0	1	
						<small>Credits = Stream Length X 1.0</small>				
Enhancement With Instream Structures: Addressing Streambank Stability, Grade Control (Vaness, Weirs, Step-Pools), Constructed Riffles								Credit per foot		
Discuss Length Affected by Instream Structures (justify length):						Length Affected by Instream Structures		300	0.3	
						<small>Credits = Stream Length X 0.3</small>				
Enhancement: Addressing Streambank Stability, Entrenchment Ratios, Access to Floodplain										
Mitigation Categories										
Mechanical Bank Work				Biological Bank Work						
Credit Per Length				Pick One Per Length				May Be Cumulative Per Length		
Activities	Habitat Structures	Create Bankfull Bench	Lay Back Banks	Bio-Remediation Techniques	Stream Bank Plantings					
Credit per foot per bank	0.1	0.15	0.1	0.1	0.09					
Right Bank	Length	300	200	300	30					
	Credit >	0.1	0.1	0.1	0.09					
		Habitat Struct	bench	lay back bank	bio-remediation	plantings				
Left Bank	Length	300	200	300	30	Rt Bank >	77.00	Credit		
	Credit >	0.1	0.15	0.1	0.1	Lt Bank >	77.00	SUM of banks	154	
<small>Σ (Length X Credit) for all areas (banks done separately)</small>										
Riparian Areas: Assess the proposed 100 foot buffer on both banks based on the activity proposed. Enter the percentage of area and the credit below. (Widths of buffer above 100' will be determined below)										
Activities	Buffer Re-establishment (removal of invasives)	Buffer Planting - Heavy	Buffer Planting - Light	Preservation High Quality, Restoration, Enhancement	Preservation Low Quality	Buffer area not within preservation width				
Credit for 0'-100'	0.4	0.38	0.29	0.14	0.07	0				
Credit for beyond 100'	0.2	0.19	0.15	0.07	0					
<small>Calculation of "Goal" riparian buffer for each side (SAR length times 100) >>></small>								83,800	square feet	
WITHIN FIRST 100' - Mitigation Categories										
One vegetative community maintained				Subtract 0.03	Ensure the sums of % Riparian Blocks equal 100					
Two vegetative communities maintained				Subtract 0.06						
Right Bank	Area #	1	2							
	Sq. Footage	42838	42838							
	% Area	0%	51%	51%	0%	0%	0%	102%		
	Credit >	0.38	0.14	0.07					19715.07444	
		Heavy Plant	Pres/Replant	low quality						
Left Bank	Area #									
	Sq. Footage	0	39430	39430						
	% Area	0%	47%	47%	0%	0%	0%	94%		
	Credit >	0.38	0.14	0.07					CREDITS	
		Rt Bank >	0.11	Credit						
		Lt Bank >	0.10	0.11					92	
<small>Σ (% Area X Credit) for all areas (banks done separately)</small>										
<small>AVE of credit for banks X length of project</small>										
Outside First 100' - Mitigation Categories										
One vegetative community maintained				Subtract 0.03	Ensure the sums of % Riparian Blocks equal 100					
Two vegetative communities maintained				Subtract 0.06						
Right Bank	Area #									
	Sq. Footage									
	% Area	0%	0%	0%	0%	0%	0%	0%		
	Credit >	0.19	0.07							
		Heavy Plant	Pres/Replant	Invasives						
Left Bank	Area #									
	Sq. Footage									
	% Area	0%	0%	0	0	0	0	0%		
	Credit >	0.19	0.07	0.2					CREDITS	
		Rt Bank >	0.00	Credit						
		Lt Bank >	0.00	0.00					0	
<small>Σ (% Area X Credit) for all areas (banks done separately)</small>										
<small>AVE of credit for banks X length of project</small>										
Adjustment Factors: These factors are applied as a multiplier to length of a reach for which they apply										
Adjustment Factor Categories										
Activity	Rare, Threatened, or Endangered Species or Communities	Livestock Exclusion	Watershed Preservation							
Credit	0.1 - 0.3	0.1 - 0.3	0.1 - 0.3							
								Credits >	0	
<small>Σ Length X Credit for all areas</small>										
Total Compensation Credit Provided by Project								336		

Compensation Crediting Form (Form 3)

Unified Stream Methodology for use in Virginia

Project #	Project Name	Locality	Cowardin Class.	HUC	Date	Reach #	Reach Length			
102528	Green Ridge Landfill - Martin Property				4/20/2020		633			
Name(s) of Evaluator(s)		Stream Name and Information								
BCLS		ST4R2								
								Enhancement	Project Credits	
Restoration: Includes Priority 1, 2, and 3 restoration activities. Does not include buffer width.								Credit per foot	0	
List Reaches that will receive full Restoration:						Total length of Full Restoration		0	1	
						<small>Credits = Stream Length X 1.0</small>				
Enhancement With Instream Structures: Addressing Streambank Stability, Grade Control (Vanes, Weirs, Step-Pools), Constructed Riffles								Credit per foot		
Discuss Length Affected by Instream Structures (justify length):						Length Affected by Instream Structures		100	0.3	
						<small>Credits = Stream Length X 0.3</small>		30		
Enhancement: Addressing Streambank Stability, Entrenchment Ratios, Access to Floodplain										
Mitigation Categories										
Mechanical Bank Work				Biological Bank Work						
Credit Per Length				Pick One Per Length				May Be Cumulative Per Length		
Activities	Habitat Structures	Create Bankfull Bench	Lay Back Banks	Bio-Remediation Techniques	Stream Bank Plantings					
Credit per foot per bank	0.1	0.15	0.1	0.1	0.09					
Right Bank	Length	200	150	633	20					
	Credit >	0.1	0.15	0.1	0.09					
		Habitat Struct	bench	lay back bank	bio-remediation	plantings				
Left Bank	Length	200	150	633	20	Rt Bank >	91.97	Credit		
	Credit >	0.1	0.15	0.1	0.09	Lt Bank >	91.97	SUM of banks	184	
						<small>Σ (Length X Credit) for all areas (banks done separately)</small>				
Riparian Areas: Assess the proposed 100 foot buffer on both banks based on the activity proposed. Enter the percentage of area and the credit below. (Widths of buffer above 100' will be determined below)										
Activities	Buffer Re-establishment (removal of invasives)	Buffer Planting - Heavy	Buffer Planting - Light	Preservation High Quality, Restoration, Enhancement	Preservation Low Quality	Buffer area not within preservation width				
Credit for 0'-100'	0.4	0.38	0.29	0.14	0.07	0				
Credit for beyond 100'	0.2	0.19	0.15	0.07	0					
Calculation of "Goal" riparian buffer for each side (SAR length times 100) >>>						63,300 square feet				
WITHIN FIRST 100' - Mitigation Categories										
One vegetative community maintained				Subtract 0.03		Ensure the sums of % Riparian Blocks equal 100				
Two vegetative communities maintained				Subtract 0.06						
Right Bank	Area #	1	2							
	Sq. Footage		57633							
	% Area	0%	91%	0%	0%	0%	0%	91%		
	Credit >	0.38	0.14	0.4						
		Heavy Plant	Pres/Replant	Invasives						
Left Bank	Area #									
	Sq. Footage	0	59355							
	% Area	0%	94%	0%	0%	0%	0%	94%		
	Credit >	0.38	0.14	0.4						
						<small>Σ (% Area X Credit) for all areas (banks done separately)</small>				
						<small>AVE of credit for banks X length of project</small>				
Outside First 100' - Mitigation Categories										
One vegetative community maintained				Subtract 0.03		Ensure the sums of % Riparian Blocks equal 100				
Two vegetative communities maintained				Subtract 0.06						
Right Bank	Area #									
	Sq. Footage									
	% Area	0%	0%	0%	0%	0%	0%	0%		
	Credit >	0.19	0.07							
		Heavy Plant	Pres/Replant	Invasives						
Left Bank	Area #									
	Sq. Footage									
	% Area	0%	0%	0	0	0	0	0%		
	Credit >	0.19	0.07	0.2						
						<small>Σ (% Area X Credit) for all areas (banks done separately)</small>				
						<small>AVE of credit for banks X length of project</small>				
Adjustment Factors: These factors are applied as a multiplier to length of a reach for which they apply										
Adjustment Factor Categories										
Activity	Rare, Threatened, or Endangered Species or Communities	Livestock Exclusion	Watershed Preservation							
Credit	0.1 - 0.3	0.1 - 0.3	0.1 - 0.3							
						<small>Σ (Length X Credit) for all areas</small>				
								Credits >	0	
Total Compensation Credit Provided by Project								296		

Compensation Crediting Form (Form 3)

Unified Stream Methodology for use in Virginia

Project #	Project Name	Locality	Cowardin Class.	HUC	Date	Reach #	Reach Length			
102528	Green Ridge Landfill - Martin Property				4/20/2020		1096			
Name(s) of Evaluator(s)		Stream Name and Information								
BCLS		ST4R3								
								Preservation	Project Credits	
Restoration: Includes Priority 1, 2, and 3 restoration activities. Does not include buffer width.								Credit per foot	0	
List Reaches that will receive full Restoration:						Total length of Full Restoration		0	1	
						<small>Credits = Stream Length X 1.0</small>				
Enhancement With Instream Structures: Addressing Streambank Stability, Grade Control (Vaness, Weirs, Step-Pools), Constructed Riffles								Credit per foot		
Discuss Length Affected by Instream Structures (justify length):						Length Affected by Instream Structures		0	0.3	
						<small>Credits = Stream Length X 0.3</small>				
Enhancement: Addressing Streambank Stability, Entrenchment Ratios, Access to Floodplain										
Mitigation Categories										
Mechanical Bank Work				Biological Bank Work						
Credit Per Length				Pick One Per Length				May Be Cumulative Per Length		
Activities	Habitat Structures	Create Bankfull Bench	Lay Back Banks	Bio-Remediation Techniques	Stream Bank Plantings					
Credit per foot per bank	0.1	0.15	0.1	0.1	0.09					
Right Bank	Length					0				
	Credit >	0.1	0.15	0.1	0.1	0.09				
		Habitat Struct bench lay back bank bio-remediation plantings				CREDITS				
Left Bank	Length					0		Rt Bank >	0.00	
	Credit >	0.1	0.15	0.1	0.1	0.09	Lt Bank >	0.00	SUM of banks	
						<small>Σ (Length X Credit) for all areas (banks done separately)</small>		0		
Riparian Areas: Assess the proposed 100 foot buffer on both banks based on the activity proposed. Enter the percentage of area and the credit below. (Widths of buffer above 100' will be determined below)										
Activities	Buffer Re-establishment (removal of invasives)	Buffer Planting - Heavy	Buffer Planting - Light	Preservation High Quality, Restoration, Enhancement	Preservation Low Quality	Buffer area not within preservation width				
Credit for 0'-100'	0.4	0.38	0.29	0.14	0.07	0				
Credit for beyond 100'	0.2	0.19	0.15	0.07		0				
Calculation of "Goal" riparian buffer for each side (SAR length times 100) >>>						109,600 square feet				
WITHIN FIRST 100' - Mitigation Categories										
One vegetative community maintained				Subtract 0.03		Ensure the sums of % Riparian Blocks equal 100				
Two vegetative communities maintained				Subtract 0.06						
Right Bank	Area #	1	2							
	Sq. Footage		89434							
	% Area	0%	82%	0%	0%	0%	0%	82%		
	Credit >	0.38	0.14	0.4						
		Heavy Plant Pres/Replant Invasives								
Left Bank	Area #									
	Sq. Footage	0	92930							
	% Area	0%	85%	0%	0%	0%	0%	85%		
	Credit >	0.38	0.14	0.4				Rt Bank >	0.11	
						CREDITS		Lt Bank >	0.12	
						<small>Σ (% Area X Credit) for all areas (banks done separately)</small>		0.12	Credit	
						<small>AVE of credit for banks X length of project</small>		132		
Outside First 100' - Mitigation Categories										
One vegetative community maintained				Subtract 0.03		Ensure the sums of % Riparian Blocks equal 100				
Two vegetative communities maintained				Subtract 0.06						
Right Bank	Area #									
	Sq. Footage									
	% Area	0%	0%	0%	0%	0%	0%	0%		
	Credit >	0.19	0.07							
		Heavy Plant Pres/Replant Invasives								
Left Bank	Area #									
	Sq. Footage									
	% Area	0%	0%	0	0	0	0	0%		
	Credit >	0.19	0.07	0.2				Rt Bank >	0.00	
						CREDITS		Lt Bank >	0.00	
						<small>Σ (% Area X Credit) for all areas (banks done separately)</small>		0		
						<small>AVE of credit for banks X length of project</small>				
Adjustment Factors: These factors are applied as a multiplier to length of a reach for which they apply										
Adjustment Factor Categories										
Activity	Rare, Threatened, or Endangered Species or Communities	Livestock Exclusion	Watershed Preservation					Record AF length /credit beneath the AF activity. Provide a narrative explanation of the applicable site conditions that warrant an adjustment and justify the AF credit chosen.		
Credit	0.1 - 0.3	0.1 - 0.3	0.1 - 0.3							
						Credits >		0		
						<small>Σ Length X Credit) for all areas</small>				
Total Compensation Credit Provided by Project								132		

Compensation Crediting Form (Form 3)

Unified Stream Methodology for use in Virginia

Project #	Project Name	Locality	Cowardin Class.	HUC	Date	Reach #	Reach Length			
102528	Green Ridge Landfill - Martin Property				4/20/2020		5114			
Name(s) of Evaluator(s)		Stream Name and Information								
BCLS		Muddy Creek								
								Preservation	Project Credits	
Restoration: Includes Priority 1, 2, and 3 restoration activities. Does not include buffer width.								Credit per foot	0	
List Reaches that will receive full Restoration:						Total length of Full Restoration		0	1	
						<small>Credits = Stream Length X 1.0</small>				
Enhancement With Instream Structures: Addressing Streambank Stability, Grade Control (Vanes, Weirs, Step-Pools), Constructed Riffles								Credit per foot		
Discuss Length Affected by Instream Structures (justify length):						Length Affected by Instream Structures		0	0.3	
						<small>Credits = Stream Length X 0.3</small>				
Enhancement: Addressing Streambank Stability, Entrenchment Ratios, Access to Floodplain										
Mitigation Categories										
Mechanical Bank Work				Biological Bank Work						
Pick One Per Length				May Be Cumulative Per Length						
Credit Per Length										
Activities	Habitat Structures	Create Bankfull Bench	Lay Back Banks	Bio-Remediation Techniques	Stream Bank Plantings					
Credit per foot per bank	0.1	0.15	0.1	0.1	0.09					
Right Bank	Length					0				
	Credit >	0.1	0.15	0.1	0.1	0.09				
Habitat Struct/bench lay back bank bio-remediation/plantings						CREDITS				
Left Bank	Length					0	Rt Bank >	0.00	Credit	
	Credit >	0.1	0.15	0.1	0.1	0.09	Lt Bank >	0.00	SUM of banks	
						<small>Σ (Length X Credit) for all areas (banks done separately)</small>		0		
Riparian Areas: Assess the proposed 100 foot buffer on both banks based on the activity proposed. Enter the percentage of area and the credit below. (Widths of buffer above 100' will be determined below)										
Activities	Buffer Re-establishment (removal of invasives)	Buffer Planting - Heavy	Buffer Planting - Light	Preservation High Quality, Restoration, Enhancement	Preservation Low Quality	Buffer area not within preservation width				
Credit for 0'-100'	0.4	0.38	0.29	0.14	0.07	0				
Credit for beyond 100'	0.2	0.19	0.15	0.07	0					
Calculation of "Goal" riparian buffer for each side (SAR length times 100) >>>						511,399	square feet			
WITHIN FIRST 100' - Mitigation Categories										
One vegetative community maintained				Subtract 0.03	Ensure the sums of % Riparian Blocks equal 100					
Two vegetative communities maintained				Subtract 0.06						
Right Bank	Area #	1	2							
	Sq. Footage		493843							
	% Area	0%	97%	0%	0%	0%			97%	
	Credit >	0.38	0.14	0.4						
Heavy Plant Pres/Replant Invasives						CREDITS				
Left Bank	Area #						Rt Bank >	0.14	Credit	
	Sq. Footage	0	482025				Lt Bank >	0.13	0.14	
	% Area	0%	94%	0%	0%	0%			716	
	Credit >	0.38	0.14	0.4						
						<small>Σ (% Area X Credit) for all areas (banks done separately)</small>				
						<small>AVE of credit for banks X length of project</small>				
Outside First 100' - Mitigation Categories										
One vegetative community maintained				Subtract 0.03	Ensure the sums of % Riparian Blocks equal 100					
Two vegetative communities maintained				Subtract 0.06						
Right Bank	Area #									
	Sq. Footage									
	% Area	0%	0%	0%	0%	0%			0%	
	Credit >	0.19	0.07							
Heavy Plant Pres/Replant Invasives						CREDITS				
Left Bank	Area #						Rt Bank >	0.00	Credit	
	Sq. Footage						Lt Bank >	0.00	0.00	
	% Area	0%	0%	0	0	0			0	
	Credit >	0.19	0.07	0.2						
						<small>Σ (% Area X Credit) for all areas (banks done separately)</small>				
						<small>AVE of credit for banks X length of project</small>				
Adjustment Factors: These factors are applied as a multiplier to length of a reach for which they apply										
Adjustment Factor Categories										
Activity	Rare, Threatened, or Endangered Species or Communities		Livestock Exclusion		Watershed Preservation			Record AF length /credit beneath the AF activity. Provide a narrative explanation of the applicable site conditions that warrant an adjustment and justify the AF credit chosen.		
Credit	0.1 - 0.3		0.1 - 0.3		0.1 - 0.3					
						Credits >		0		
						<small>Σ Length X Credit for all areas</small>				
Total Compensation Credit Provided by Project								716		

Compensation Crediting Form (Form 3)

Unified Stream Methodology for use in Virginia

Project #	Project Name	Locality	Cowardin Class.	HUC	Date	Reach #	Reach Length			
102528	Green Ridge Landfill - Martin Property				4/20/2020		28947			
Name(s) of Evaluator(s)		Stream Name and Information								
BCLS		Landfill								
								Preservation	Project Credits	
Restoration: Includes Priority 1, 2, and 3 restoration activities. Does not include buffer width.								Credit per foot	0	
List Reaches that will receive full Restoration:						Total length of Full Restoration		0	1	
						<small>Credits = Stream Length X 1.0</small>				
Enhancement With Instream Structures: Addressing Streambank Stability, Grade Control (Vaness, Weirs, Step-Pools), Constructed Riffles								Credit per foot		
Discuss Length Affected by Instream Structures (justify length):						Length Affected by Instream Structures		0	0.3	
						<small>Credits = Stream Length X 0.3</small>				
Enhancement: Addressing Streambank Stability, Entrenchment Ratios, Access to Floodplain										
Mitigation Categories										
Mechanical Bank Work				Biological Bank Work						
Credit Per Length				Pick One Per Length				May Be Cumulative Per Length		
Activities	Habitat Structures	Create Bankfull Bench	Lay Back Banks	Bio-Remediation Techniques	Stream Bank Plantings					
Credit per foot per bank	0.1	0.15	0.1	0.1	0.09					
Right Bank	Length					0				
	Credit >	0.1	0.15	0.1	0.1	0.09				
Habitat Struct bench lay back bank bio-remediation plantings						CREDITS				
Left Bank	Length					0		Rt Bank >	0.00	
	Credit >	0.1	0.15	0.1	0.1	0.09	Lt Bank >	0.00	SUM of banks	
						<small>Σ (Length X Credit) for all areas (banks done separately)</small>		0		
Riparian Areas: Assess the proposed 100 foot buffer on both banks based on the activity proposed. Enter the percentage of area and the credit below. (Widths of buffer above 100' will be determined below)										
Activities	Buffer Re-establishment (removal of invasives)	Buffer Planting - Heavy	Buffer Planting - Light	Preservation High Quality, Restoration, Enhancement	Preservation Low Quality	Buffer area not within preservation width				
Credit for 0'-100'	0.4	0.38	0.29	0.14	0.07	0				
Credit for beyond 100'	0.2	0.19	0.15	0.07		0				
Calculation of "Goal" riparian buffer for each side (SAR length times 100) >>>						2,894,700		square feet		
WITHIN FIRST 100' - Mitigation Categories										
One vegetative community maintained				Subtract 0.03		Ensure the sums of % Riparian Blocks equal 100				
Two vegetative communities maintained				Subtract 0.06						
Right Bank	Area #	1	2							
	Sq. Footage		2768020							
	% Area	0%	96%	0%	0%	0%	0%	96%		
	Credit >	0.38	0.14	0.4						
Heavy Plant Pres/Replant Invasives						CREDITS				
Left Bank	Area #						Rt Bank >	0.13	Credit	
	Sq. Footage	0	2768020				Lt Bank >	0.13	0.13	
	% Area	0%	96%	0%	0%	0%	96%			
	Credit >	0.38	0.14	0.4			3763			
						<small>Σ (% Area X Credit) for all areas (banks done separately)</small>		<small>AVE of credit for banks X length of project</small>		
Outside First 100' - Mitigation Categories										
One vegetative community maintained				Subtract 0.03		Ensure the sums of % Riparian Blocks equal 100				
Two vegetative communities maintained				Subtract 0.06						
Right Bank	Area #									
	Sq. Footage									
	% Area	0%	0%	0%	0%	0%	0%	0%		
	Credit >	0.19	0.07							
Heavy Plant Pres/Replant Invasives						CREDITS				
Left Bank	Area #						Rt Bank >	0.00	Credit	
	Sq. Footage						Lt Bank >	0.00	0.00	
	% Area	0%	0%	0	0	0	0%			
	Credit >	0.19	0.07	0.2			0			
						<small>Σ (% Area X Credit) for all areas (banks done separately)</small>		<small>AVE of credit for banks X length of project</small>		
Adjustment Factors: These factors are applied as a multiplier to length of a reach for which they apply										
Adjustment Factor Categories										
Activity	Rare, Threatened, or Endangered Species or Communities	Livestock Exclusion	Watershed Preservation					Record AF length /credit beneath the AF activity. Provide a narrative explanation of the applicable site conditions that warrant an adjustment and justify the AF credit chosen.		
Credit	0.1 - 0.3	0.1 - 0.3	0.1 - 0.3							
						Credits >		0		
						<small>Σ Length X Credit) for all areas</small>				
Total Compensation Credit Provided by Project								3763		

Compensation Summary Form (Form 4)

Unified Stream Methodology for use in Virginia

Project #	Applicant	Date
102528	RES	4/20/2020
Evaluators		Locality
BCLS		Middle James

Stream Name	Reach ID	Comp. Length (L _c)	Total Compensation Credit
ST1R1	ST1R1	1120	685
ST1R2	ST1R2	2136	1270
ST1T1	ST1T1	142	67
ST1T2	ST1T2	630	283
ST1T3	ST1T3	1143	503
ST2R1	ST2R1	482	82
ST2R2	ST2R2	1664	1897
ST2T1	ST2T1	878	88
ST3R1	ST3R1	1319	657
ST3R2	ST3R2	1159	1310
ST3R3	ST3R3	1614	854
ST3T1	ST3T1	218	94
ST3T2R1	ST3T2R1	574	299
ST3T2R2	ST3T2R2	142	21
ST3T2R3	ST3T2R3	441	516
ST3T3	ST3T3	240	108
ST3T4	ST3T4	255	113
ST3T5	ST3T5	1760	2042
ST3T6	ST3T6	365	40
ST4R1	ST4R1	838	336
ST4R2	ST4R2	633	296
ST4R3	ST4R3	1096	132
Muddy Creek	Muddy Creek	5114	716
Landfill Pres	Landfill	28947	3763
Totals		52,911	16,172

Note: Round all feet & CC's to the nearest whole number.

Attachment D
Mitigation Credit Availability Research

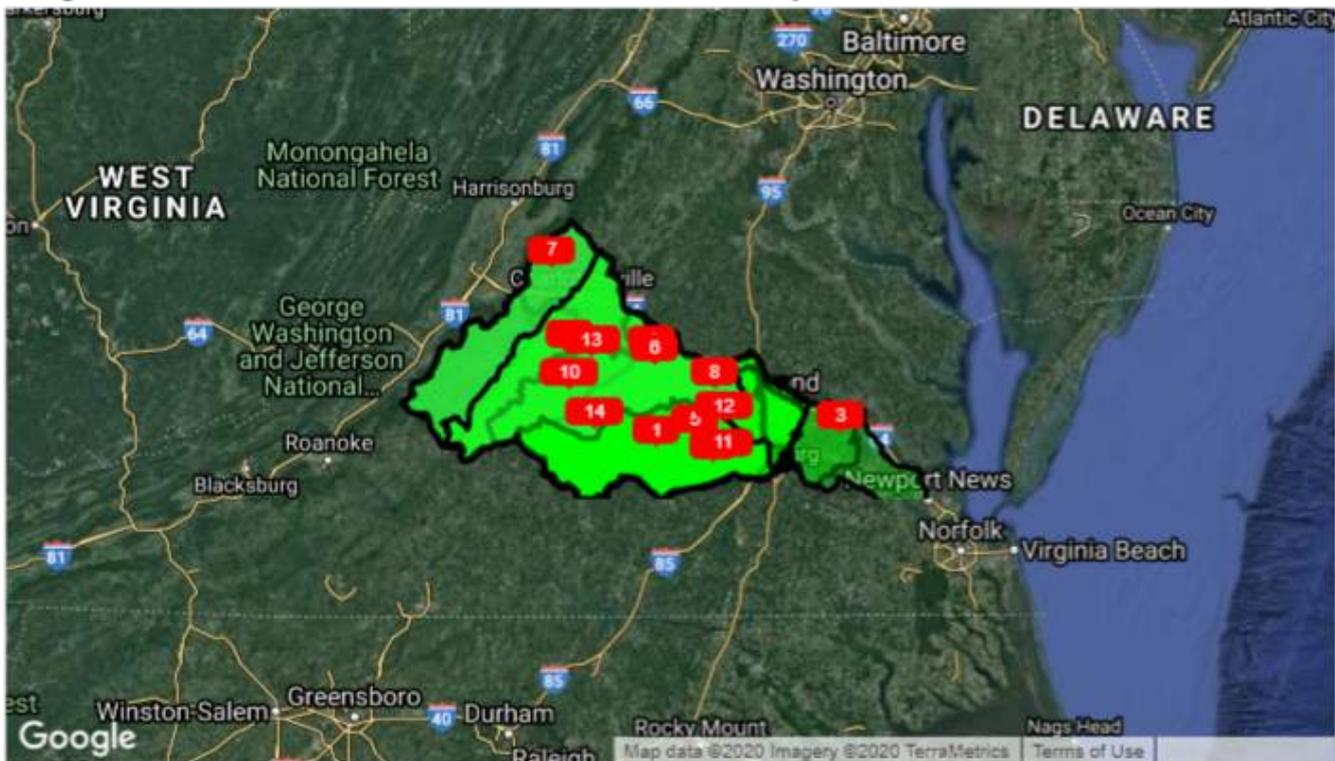
Notice: The credit totals shown do NOT reflect any credit reservations or pending transactions.
It is the responsibility of potential purchasers to contact the Sponsor and obtain written confirmation of credit availability.

Latitude: 37.561702, Longitude -78.121652
State: Virginia
County: Cumberland
8-digit Hydrologic Unit Code: 02080205
USFWS Field Office: Virginia
USACE District: Norfolk
NOAA Region: Northeast

Mitigation/Conservation Banks & ILF Sites in Primary Service Area	14
Mitigation/Conservation Banks & ILF Sites in Secondary Service Area	0
Mitigation/Conservation Banks & ILF Sites in Tertiary Service Area	0
ILF Program Advance Credits	1

Search Criteria:
excluding single client banks and ILF sites
including banks, ILF sites and ILF programs with zero available credits
including bank and ILF site service areas of rank Primary, Secondary, Tertiary

Mitigation/Conservation Banks & ILF Sites in Primary Service Area



Bank Name: 1 - Amelia Environmental Bank
Bank Type: Private Commercial
Total Acres: 1102
Distance to impact: 15 Miles
Permit No: NAO-2008-3144
Bank States: Virginia
Comments: Wetland and stream bank
Bank Sponsor: **Fallings Springs LLC dba Amelia Environmental LLC**
6243 River Road, Suite 7
Richmond, VA 23229

Bank POC: **Jason Bohdan**
 Falling Springs LLC
 6243 River Road, Suite 7
 Richmond, VA 23229
 Email: jbohdan@fallingspringsllc.com
 Phone: (804) 330-8095
 Cell Phone: (804) 839-2938
 Fax: (804) 330-8096

Sandra Bolling
Office Manager
 6243 River Road
 Suite 7
 Richmond, VA 23229
 Email: sbolling@fallingspringsllc.com
 Phone: (804) 330-8091

Evan B Ocheltree
Manager
 Falling Springs
 6243 River Road Ste.7
 Richmond, VA 23229
 Email: eocheltree@fallingspringsllc.com
 Phone: (804) 823-8246

Bank Manager: **Julie Hamilton**
Environmental Scientist
 9100 Arboretum Parkway, Suite 235
 Richmond, VA 23236
 Email: julie.s.hamilton@usace.army.mil
 Phone: (804) 323-3783

<u>Credit Type</u>	<u>Credit Classifications</u>	<u>Assessment Method</u>	<u>Available Credits</u>	<u>Jurisdiction</u>
Stream	Riverine	Unified Stream Methodology	0.00	Federal
Wetland	Wetlands	Ratio	0.00	Federal

Notes:

Bank Name: 2 - Appomattox

Bank Type: Private Commercial
 Total Acres: 401.43
 Distance to impact: 28 Miles
 Permit No: NAO-2007-2611
 Bank States: Virginia
 Comments: Wetland and stream mitigation bank. Credits are assessed using the Mitigation Ratio Method (wetlands) and Unified Stream Methodology (USM)

Bank Sponsor: **Fallings Springs LLC dba Appomattox Mitigation Holdings LLC**
 6243 River Road, Suite 7
 Richmond, VA 23229

Bank POC: **Jason Bohdan**
 Falling Springs LLC
 6243 River Road, Suite 7
 Richmond, VA 23229
 Email: jbohdan@fallingspringsllc.com
 Phone: (804) 330-8095
 Cell Phone: (804) 839-2938
 Fax: (804) 330-8096

Sandra Bolling
Office Manager
 6243 River Road
 Suite 7
 Richmond, VA 23229
 Email: sbolling@fallingspringsllc.com
 Phone: (804) 330-8091

Evan B Ocheltree
Manager
 Falling Springs
 6243 River Road Ste.7
 Richmond, VA 23229
 Email: eocheltree@fallingspringsllc.com
 Phone: (804) 823-8246

Bank Manager: **Julie Hamilton**
Environmental Scientist
 9100 Arboretum Parkway, Suite 235
 Richmond, VA 23236
 Email: julie.s.hamilton@usace.army.mil
 Phone: (804) 323-3783

<u>Credit Type</u>	<u>Credit Classifications</u>	<u>Assessment Method</u>	<u>Available Credits</u>	<u>Jurisdiction</u>
Wetland	POW - Palustrine Open Water	Ratio	1.44	Federal
Stream	Riverine	STREAM	0.00	Federal
Wetland	Wetlands	Ratio	0.00	Federal

Notes:

Bank Name: [3 - Bailey](#)

Bank Type: Private Commercial

Total Acres: 48

Distance to impact: 60 Miles

Permit No: NAO-2008-1387

Bank States: Virginia

Comments: Wetland and stream mitigation bank. Credits would be assessed using mitigation ratio method (wetlands) and Unified Stream Methodology (USM)

Bank Sponsor: **Falling Springs LLC dba Bailey Mitigation LLC**
 6243 River Road, Suite 7
 Richmond, VA 23229

Bank POC: **Jason Bohdan**
 Falling Springs LLC
 6243 River Road, Suite 7
 Richmond, VA 23229
 Email: jbohdan@fallingspringsllc.com
 Phone: (804) 330-8095
 Cell Phone: (804) 839-2938
 Fax: (804) 330-8096

Sandra Bolling
Office Manager
 6243 River Road
 Suite 7
 Richmond, VA 23229
 Email: sbolling@fallingspringsllc.com
 Phone: (804) 330-8091

Evan B Ocheltree
Manager
 Falling Springs
 6243 River Road Ste.7
 Richmond, VA 23229
 Email: eocheltree@fallingspringsllc.com
 Phone: (804) 823-8246

Bank Manager: **Mr. Dan Bacon**
Regulatory Specialist
 803 Front St.
 Norfolk, VA 23510
 Email: Danny.R.Bacon@usace.army.mil
 Phone: (757) 201-7060

Herman Hudson
 803 Front Street
 Norfolk, VA 23510
 Email: herman.w.hudson@usace.army.mil
 Phone: (757) 201-7808

<u>Credit Type</u>	<u>Credit Classifications</u>	<u>Assessment Method</u>	<u>Available Credits</u>	<u>Jurisdiction</u>
Stream	Riverine	Unified Stream Methodology	0.00	Federal
Wetland	Wetlands	Ratio	0.00	Federal

Notes:

Bank Name: 4 - Byrd Creek

Bank Type: Private Commercial

Total Acres: 163

Distance to impact: 14 Miles

Permit No: NAO-2000-1533

Bank States: Virginia

Comments: Wetland mitigation bank. Credits are assessed using the Mitigation Ratio Method.

Bank Sponsor: **Byrd Creek, LLC**
 1851 Bennington Rd
 Rockville, VA 23146

Bank POC: **Kelby Morgan**
Manager
 1851 Bennington Road
 Rockville, VA 23146
 Email: kmorgan@liesfeld.com
 Phone: (804) 749-3276
 Fax: (804) 749-4566

Bank Manager: **David Knepper**
Environmental Scientist
 803 Front Street
 Norfolk, VA 23510
 Email: David.A.Knepper@usace.army.mil
 Phone: (757) 201-7488
 Fax: (757) 201-7678

<u>Credit Type</u>	<u>Credit Classifications</u>	<u>Assessment Method</u>	<u>Available Credits</u>	<u>Jurisdiction</u>
Stream	Riverine	Unified Stream Methodology	121.00	Federal
Wetland	Wetlands	Ratio	0.06	Federal

Notes:

Bank Name: 5 - Coverly

Bank Type: Private Commercial

Total Acres: 175

Distance to impact: 18 Miles

Permit No: NAO-2001-0577

Bank States: Virginia

Comments: Wetland mitigation bank utilizing Mitigation Ratio (old permit number 01-F0072)

Bank Sponsor: **Coverly Wetlands Mitigation LLC**
c/o Aythya Environmental LLC
202 Henry Clay Rd
Ashland, VA 23005

Bank POC: **Matt Overton**
Aythya Environmental, LLC
202 Henry Clay Road
Ashland, VA 23005
Email: p.matt.overton@gmail.com
Phone: (804) 339-6288
Fax: (804) 271-5373

Bank Manager: **Julie Hamilton**
Environmental Scientist
9100 Arboretum Parkway, Suite 235
Richmond, VA 23236
Email: julie.s.hamilton@usace.army.mil
Phone: (804) 323-3783

Credit Type Credit Classifications Assessment Method Available Credits Jurisdiction

Wetland Wetlands Ratio 0.00 Federal

Notes:

Bank Name: 6 - Elk Island

Bank Type: Private Commercial

Total Acres: 103

Distance to impact: 11 Miles

Permit No: NAO-2000-1533

Bank States: Virginia

Comments: Wetland and stream mitigation bank. Credits are assessed by compensatory ratio (wetland credits) and USM (stream credits)

Bank Sponsor: **Byrd Creek, LLC**
1851 Bennington Rd
Rockville, VA 23146

Bank POC: **Kelby Morgan**
Manager
1851 Bennington Road
Rockville, VA 23146
Email: kmorgan@liesfeld.com
Phone: (804) 749-3276
Fax: (804) 749-4566

Bank Manager: **Todd Miller**
Environmental Scientist
 9100 Arboretum Pkwy, Ste 235
 Richmond, VA 23236
 Email: todd.m.miller@usace.army.mil
 Phone: (804) 323-3782

<u>Credit Type</u>	<u>Credit Classifications</u>	<u>Assessment Method</u>	<u>Available Credits</u>	<u>Jurisdiction</u>
Stream	Riverine	Unified Stream Methodology	0.00	Federal
Wetland	Wetlands	Ratio	0.70	Federal

Notes:

Bank Name: 7 - Innisfree Stream Mitigation Bank

Bank Type: Private Commercial
 Total Acres: 463
 Distance to impact: 53 Miles
 Permit No: NAO-2010-01856
 Bank States: Virginia
 Comments: Wetland and stream mitigation bank
 Bank Sponsor: **Innisfree Stream Mitigation Bank LLC**
 , VA
 Bank POC: **Peter Traverse**
 Innisfree Stream Mitigation Bank, LLC
 5505 Walnut Level Rd
 Crozet, VA 22932
 Email: streams@innisfreevillage.org
 Phone: (434) 305-8963
 Bank Manager: **Vincent Pero**
 CENAO-REG
 920 Gardens Blvd. Suite 103-B
 Charlottesville, VA 22901
 Email: vincent.d.pero@usace.army.mil
 Phone: (434) 973-0568

<u>Credit Type</u>	<u>Credit Classifications</u>	<u>Assessment Method</u>	<u>Available Credits</u>	<u>Jurisdiction</u>
Stream	Riverine	Unified Stream Methodology	6,833.90	Federal

Notes:

Bank Name: 8 - James River

Bank Type: Private Commercial

Total Acres: 430

Distance to impact: 20 Miles

Permit No: NAO-2011-0513

Bank States: Virginia

Comments: Wetland and stream mitigation bank. Wetland credits are assessed using the Mitigation Ratio method.

Bank Sponsor: **Falling Springs, LLC dba James River Mitigation, LLC**
6243 River Road, Suite 7
Richmond, VA 23229

Bank POC: **Jason Bohdan**
Falling Springs LLC
6243 River Road, Suite 7
Richmond, VA 23229
Email: jbohdan@fallingspringsllc.com
Phone: (804) 330-8095
Cell Phone: (804) 839-2938
Fax: (804) 330-8096

Sandra Bolling
Office Manager
6243 River Road
Suite 7
Richmond, VA 23229
Email: sbolling@fallingspringsllc.com
Phone: (804) 330-8091

Evan B Ocheltree
Manager
Falling Springs
6243 River Road Ste.7
Richmond, VA 23229
Email: eocheeltree@fallingspringsllc.com
Phone: (804) 823-8246

Bank Manager: **Melissa Nash**
Environmental Scientist
803 Front Street
Norfolk, VA 23510
Email: melissa.a.nash@usace.army.mil
Phone: (757) 201-7489

<u>Credit Type</u>	<u>Credit Classifications</u>	<u>Assessment Method</u>	<u>Available Credits</u>	<u>Jurisdiction</u>
Stream	Riverine	Unified Stream Methodology	0.00	Federal
Wetland	Wetlands	Ratio	0.00	Federal

Notes:

Bank Name: 9 - Lone Oak

Bank Type: Private Commercial
 Total Acres: 250
 Distance to impact: 31 Miles
 Permit No: NAO-2009-1585
 Bank States: Virginia
 Comments: Stream mitigation bank. Credits are assessed using the Unified Stream Methodology
 Bank Sponsor: **Clearwater Mitigation I LLC**
 4704 Rolfe Road
 Richmond, VA 23226
 Email: jparker@clearwaterventuresllc.com
 Phone: (804) 819-0474

Bank POC: **James Parker**
 Clearwater Ventures LLC
 4704 Rolfe Road
 Richmond, VA 23226
 Email: jparker@clearwaterventuresllc.com
 Phone: (804) 819-0474

Bank Manager: **Vincent Pero**
 CENAO-REG
 920 Gardens Blvd. Suite 103-B
 Charlottesville, VA 22901
 Email: vincent.d.pero@usace.army.mil
 Phone: (434) 973-0568

<u>Credit Type</u>	<u>Credit Classifications</u>	<u>Assessment Method</u>	<u>Available Credits</u>	<u>Jurisdiction</u>
Stream	Riverine	Unified Stream Methodology	9,492.00	Federal

Notes:

Bank Name: 10 - Piedmont Farms

Bank Type: Private Commercial
 Total Acres: 1910
 Distance to impact: 27 Miles
 Permit No: NAO-2009-00080
 Bank States: Virginia
 Comments: Eastview Farms-stream restoration and enhancement, buffer enhancement. Fulfillment Farms-stream preservation only
 Bank Sponsor: **Mitigation Services Inc**
 12811 Randolph Ridge Lane
 Manassas, VA 20109

Bank POC: **Tara Kelly**
Senior Environmental Specialist
 12811 Randolph Bridge LN
 Manassas, VA 20109
 Email: tkelly@anglerenvironmental.com
 Phone: (703) 393-4844
 Fax: (703) 393-2934

Ms Caitlan Parker
Credit Sales Coordinator
 Resource Environmental Solutions, LLC
 302 Jefferson Street Suite 110
 Raleigh, NC 27605
 Email: cparker@res.us
 Phone: (919) 209-1075
 Cell Phone: (910) 734-7612

Bank Manager: **Julie Hamilton**
Environmental Scientist
 9100 Arboretum Parkway, Suite 235
 Richmond, VA 23236
 Email: julie.s.hamilton@usace.army.mil
 Phone: (804) 323-3783

<u>Credit Type</u>	<u>Credit Classifications</u>	<u>Assessment Method</u>	<u>Available Credits</u>	<u>Jurisdiction</u>
Stream	Riverine	Unified Stream Methodology	1,061.00	Federal

Notes:

Bank Name: 11 - Ragland Farm

Bank Type: Private Commercial

Total Acres: 204

Distance to impact: 30 Miles

Permit No: NAO-2008-2208

Bank States: Virginia

Comments: Wetland and stream mitigation bank. Wetland credits are assessed using the mitigation ratio method. Stream credits are assessed using the Unified Stream Methodology (USM)

Bank Sponsor: **Ragland Farm Mitigation Bank, LLC**
 Attn: Ms. Suzanne Humphrey
 12445 Walkes Quarter Road
 Chesterfield, VA 23838
 Phone: (804) 516-9435

Bank POC: **Jamie Hudson**
Consultant
 Virginia Wetland Consulting LC
 P.O. Box 206
 Quinton, VA 23141
 Email: ajh@vawetlandconsulting.com
 Phone: (804) 932-3135

Suzanne Humphrey
Sales POC
 Ragland Farm Mitigation Bank LLC
 12445 Walkes Quarter Rd
 Chesterfield, VA 23838
 Phone: (804) 516-9435

Bank Manager: **Todd Miller**
Environmental Scientist
 9100 Arboretum Pkwy, Ste 235
 Richmond, VA 23236
 Email: todd.m.miller@usace.army.mil
 Phone: (804) 323-3782

<u>Credit Type</u>	<u>Credit Classifications</u>	<u>Assessment Method</u>	<u>Available Credits</u>	<u>Jurisdiction</u>
Stream	Riverine	Unified Stream Methodology	1,295.00	Federal
Wetland	Wetlands	Ratio	0.00	Federal

Notes:

Bank Name: 12 - Weatherbury
Bank Type: Private Commercial
Total Acres: 150
Distance to impact: 24 Miles
Permit No: NAO-2008-2938
Bank States: Virginia
Comments: Proposed wetland and stream mitigation bank. Compensatory ratio & Unified Stream Methodology
Bank Sponsor: **Clearwater Mitigation I LLC**
4704 Rolfe Road
Richmond, VA 23226
Email: jparker@clearwaterventuresllc.com
Phone: (804) 819-0474
Bank POC: **James Parker**
Clearwater Ventures LLC
4704 Rolfe Road
Richmond, VA 23226
Email: jparker@clearwaterventuresllc.com
Phone: (804) 819-0474
Bank Manager: **Silvia Gazzera**
Environmental Scientist
9100 Arboretum Parkway
Richmond, VA 23236
Email: silvia.b.gazzera@usace.army.mil
Phone: (804) 323-3781

<u>Credit Type</u>	<u>Credit Classifications</u>	<u>Assessment Method</u>	<u>Available Credits</u>	<u>Jurisdiction</u>
Stream	Riverine	Unified Stream Methodology	128.00	Federal
Wetland	Wetlands	Ratio	1.49	Federal

Notes:

Bank Name: 13 - White Oak Landing
Bank Type: Private Commercial
Total Acres: 55
Distance to impact: 24 Miles
Permit No: NAO-2008-1043
Bank States: Virginia
Comments: Wetland and stream mitigation bank. Wetland credits are assessed using the mitigation ratio method. Stream credits are assessed using the Unified Stream Methodology
Bank Sponsor: **Harold Hardin**
Paynes Pond LLC
12624 Eagle Ridge Road
Richmond, VA 23233
Email: haroldh@htrsi.com
Phone: (804) 357-7532

Bank POC: **Harold Hardin**
 Paynes Pond LLC
 12624 Eagle Ridge Road
 Richmond, VA 23233
 Email: haroldh@htrsi.com
 Phone: (804) 357-7532

Jamie Hudson
Consultant
 Virginia Wetland Consulting LC
 P.O. Box 206
 Quinton, VA 23141
 Email: ajh@vawetlandconsulting.com
 Phone: (804) 932-3135

Bank Manager: **Vincent Pero**
 CENAO-REG
 920 Gardens Blvd. Suite 103-B
 Charlottesville, VA 22901
 Email: vincent.d.pero@usace.army.mil
 Phone: (434) 973-0568

<u>Credit Type</u>	<u>Credit Classifications</u>	<u>Assessment Method</u>	<u>Available Credits</u>	<u>Jurisdiction</u>
Stream	Riverine	STREAM	11.00	Federal
Wetland	Wetlands	Ratio	0.00	Federal

Notes:

Bank Name: 14 - Willis River

Bank Type: Private Commercial
 Total Acres: 200
 Distance to impact: 21 Miles
 Permit No: NAO-2006-7632
 Bank States: Virginia
 Comments: Wetland and stream mitigation bank. Wetland credits are assessed using the Mitigation Ratio method. Stream credits are assessed using the Unified Stream Methodology (USM).

Bank Sponsor: **Wetland Resource Management, LLC**
 1703 N. Parham Rd, Suite 202
 Richmond, VA 23229

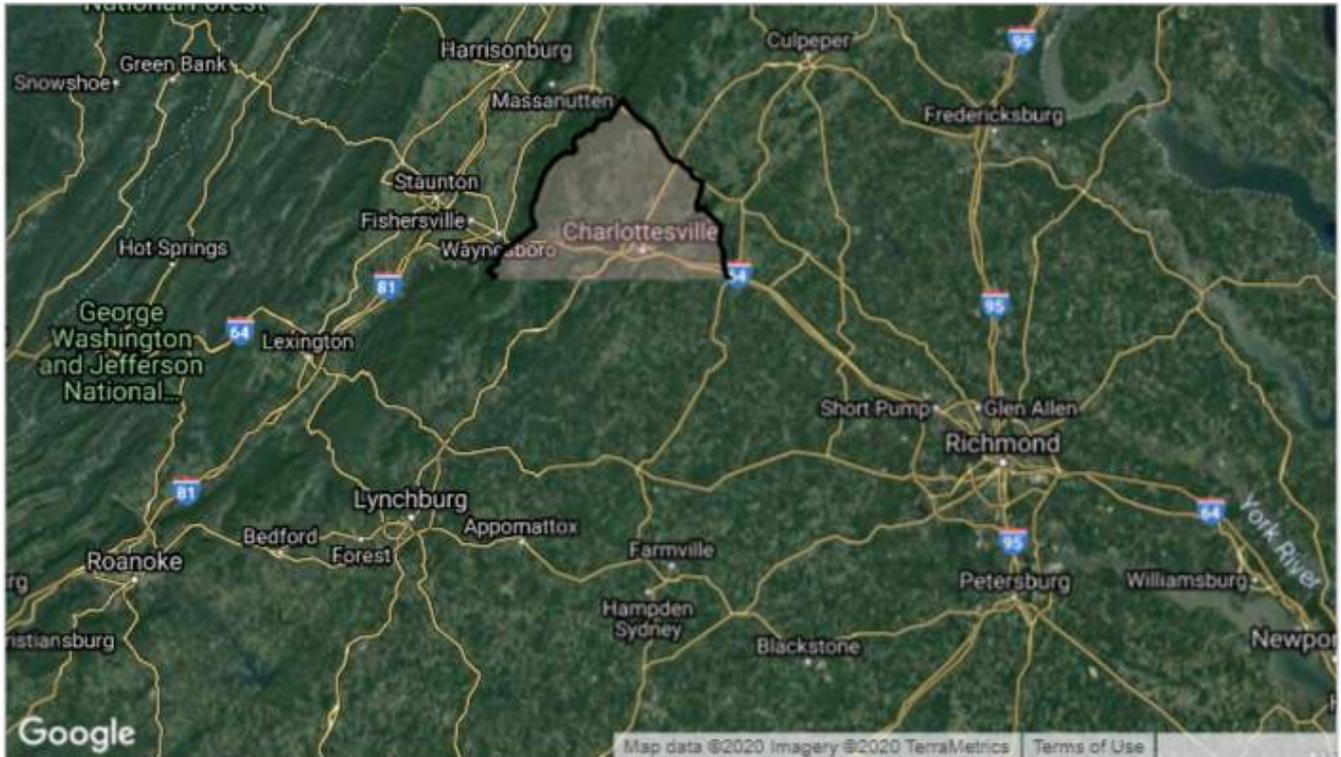
Bank POC: **George L Bryant III**
 1703 N Parham Road, Suite 202
 Richmond, VA 23229
 Email: gbryant@koontzbryant.com
 Phone: (804) 200-1902
 Cell Phone: (804) 874-9314
 Fax: (804) 740-7338

Bank Manager: **Vincent Pero**
 CENAO-REG
 920 Gardens Blvd. Suite 103-B
 Charlottesville, VA 22901
 Email: vincent.d.pero@usace.army.mil
 Phone: (434) 973-0568

<u>Credit Type</u>	<u>Credit Classifications</u>	<u>Assessment Method</u>	<u>Available Credits</u>	<u>Jurisdiction</u>
Stream	Riverine	Unified Stream Methodology	62.00	Federal
Wetland	Wetlands	Ratio	0.00	Federal

Notes:

ILF Program Advance Credits



Program Name: Virginia Aquatic Resources Trust Fund

Program Type: ILF

Distance to impact: 82 Miles

Permit No:

Program States: Virginia

Program Sponsor: The Nature Conservancy of Virginia
490 Westfield Rd
Charlottesville, VA 22901

Program POC: Karen Johnson
Land Protection Specialist
The Nature Conservancy
530 East Main Street, Suite 800
Richmond, VA 23219
Email: karen_johnson@TNC.ORG
Phone: (804) 644-5800 X 116
Fax: (804) 644-1685

Program Manager: Jeanne Richardson
Environmental Scientist
Lynchburg Field Office USACE
PO Box 3160
Lynchburg, VA 24503
Email: jeanne.c.richardson@usace.army.mil
Phone: (434) 384-0182
Fax: (434) 384-7689

Credit Type Service Area Advanced Credits

Non-Tidal	Middle James	7.41
Stream	Middle James	5,000.00
Tidal	Middle James	
Wetland	Middle James	

Notes:

LONE OAK STREAM MITIGATION BANK

March 17, 2020

Brent Johnson
Koontz Bryant Johnson Williams
11901 Old Stage Road
Chester, VA
Sent Via Email: bjohnson@kbjwgroup.com

RE: Stream Credit Availability for the Green Ridge Landfill project located off Route 60 and west of Miller Lane in Cumberland County, VA within the James River Watershed and HUC 02080205

Dear Brent:

Clearwater Mitigation I LLC owns and operates the Lone Oak Stream Mitigation Bank (“Lone Oak”) which has approval from the U.S. Army Corps of Engineers (“USACE”) and the Virginia Department of Environmental Quality (“DEQ”) to provide stream mitigation credits for offset of authorized impacts within the James River Watershed including HUCs 02080203, 02080204, 02080205, and 02080207. Currently, Lone Oak has 13,663 Stream Credits available to offset impacts in these regions. It is my understanding that your project, referenced above, requires between 7,000-10,000 Stream Credits to satisfy the permit requirements.

This letter serves as confirmation that Lone Oak has enough stream credits available to satisfy your mitigation requirements. Please contact me directly to secure these credits by way of a purchase agreement to guarantee availability. On behalf of Clearwater Ventures LLC, I truly appreciate the opportunity to work with you and your client on this project.

Very truly yours,



James Parker
Managing Member
Clearwater Mitigation I LLC
804-819-0474
jparker@clearwaterventuresllc.com

Copy to: Hannah Miller, Koontz Bryant Johnson Williams

Attachment E

**Threatened and Endangered Species and Cultural and Historic
Resources Database Search**



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Virginia Field Office
6669 Short Lane
Gloucester, VA 23061

Date: 06/26/2020

Self-Certification Letter

Project Name: Green Ridge Landfill PRM

Dear Applicant:

Thank you for using the U.S. Fish and Wildlife Service (Service) Virginia Ecological Services online project review process. By printing this letter in conjunction with your project review package, you are certifying that you have completed the online project review process for the project named above in accordance with all instructions provided, using the best available information to reach your conclusions. This letter, and the enclosed project review package, completes the review of your project in accordance with the Endangered Species Act of 1973 (16 U.S.C. 1531-1544, 87 Stat. 884), as amended (ESA). This letter also provides information for your project review under the National Environmental Policy Act of 1969 (P.L. 91-190, 42 U.S.C. 4321-4347, 83 Stat. 852), as amended. A copy of this letter and the project review package must be submitted to this office for this certification to be valid. This letter and the project review package will be maintained in our records.

The species conclusions table in the enclosed project review package summarizes your ESA conclusions. These conclusions resulted in:

- “no effect” determinations for proposed/listed species and/or proposed/designated critical habitat; and/or
- Action may affect the northern long-eared bat; however, any take that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR § 17.40(o) [as determined through the Information, Planning, and Consultation System (IPaC) northern long-eared bat assisted determination key]; and/or
- “may affect, not likely to adversely affect” determinations for proposed/listed species and/or proposed/designated critical habitat.

We certify that use of the online project review process in strict accordance with the instructions provided as documented in the enclosed project review package results in reaching the appropriate determinations. Therefore, we concur with the determinations described above for proposed and listed species and proposed and designated critical habitat. Additional coordination with this office is not needed.

Candidate species are not legally protected pursuant to the ESA. However, the Service encourages consideration of these species by avoiding adverse impacts to them. Please contact this office for additional coordination if your project action area contains candidate species.

Should project plans change or if additional information on the distribution of proposed or listed species, proposed or designated critical habitat becomes available, this determination may be reconsidered. This certification letter is valid for 1 year.

Information about the online project review process including instructions and use, species information, and other information regarding project reviews within Virginia is available at our website http://www.fws.gov/northeast/virginiafield/endspecies/project_reviews.html. If you have any questions, please contact Troy Andersen of this office at (804) 824-2428.

Sincerely,



Cindy Schulz
Field Supervisor
Virginia Ecological Services

Enclosures - project review package

Species Conclusions Table

Project Name: Green Ridge Landfill PRM

Date: 04/15/2020

Species / Resource Name	Conclusion	ESA Section 7	Notes / Documentation
Northern Long Eared Bat (FT) <i>(Myotis septentrionalis)</i>	May effect	No adverse effect	Determination Key – any take of the northern long eared bat that may occur as a result of the action is not prohibited under the Final 4(d) rule. There are no known hibernacula or maternity roost trees are located within 5.5 miles of the project area. Therefore, in accordance with the Final 4(d) Rule, the project should not have an adverse effect on this species.
Critical Habitat (IPaC)	No Critical Habitat Present	No effect	
Bald Eagles	Unlikely to disturb nesting bald eagles/Does not intersect with bald eagle concentration area	No Eagle Act permit required	No nests within 660' and not within an eagle concentration area.

FE = Federally Endangered; FT = Federally Threatened; PFT = Proposed Federally Threatened; SE = State Endangered; ST = State Threatened; IPaC = USFWS Information for Planning and Consultation database

Acknowledgement: I agree that the above information about my proposed project is true. I used all the provided resources to make an informed decision about impacts in the immediate and surrounding areas.



Monica Young - Regulatory Specialist

Signature / Title

04/15/2020

Date



United States Department of the Interior



FISH AND WILDLIFE SERVICE

Virginia Ecological Services Field Office

6669 Short Lane

Gloucester, VA 23061-4410

Phone: (804) 693-6694 Fax: (804) 693-9032

<http://www.fws.gov/northeast/virginiafield/>

In Reply Refer To:

April 15, 2020

Consultation Code: 05E2VA00-2020-SLI-3252

Event Code: 05E2VA00-2020-E-09131

Project Name: Green Ridge Landfill

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*). Any activity proposed on National Wildlife Refuge lands must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered

species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Virginia Ecological Services Field Office

6669 Short Lane

Gloucester, VA 23061-4410

(804) 693-6694

Project Summary

Consultation Code: 05E2VA00-2020-SLI-3252

Event Code: 05E2VA00-2020-E-09131

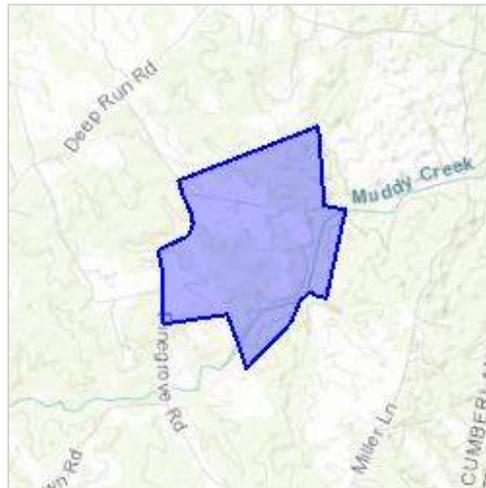
Project Name: Green Ridge Landfill

Project Type: LAND - RESTORATION / ENHANCEMENT

Project Description: Mitigation Site

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/37.578994281714984N78.12757368277329W>



Counties: Cumberland, VA

Endangered Species Act Species

There is a total of 1 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Threatened

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

USFWS National Wildlife Refuge Lands And Fish Hatcheries

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

VaFWIS Search Report Compiled on 4/7/2020, 10:36:13 AM[Help](#)

Known or likely to occur within a **2 mile radius around point 37.5808920 -78.1254458**
in **049 Cumberland County, 145 Powhatan County, VA**

[View Map of Site Location](#)

421 Known or Likely Species ordered by Status Concern for Conservation
(displaying first 20) (20 species with Status* or Tier I** or Tier II**)

BOVA Code	Status*	Tier**	Common Name	Scientific Name	Confirmed	Database(s)
060017	FESE	Ia	Spinymussel, James	Parvaspina collina		BOVA
060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon		BOVA
050022	FTST	Ia	Bat, northern long-eared	Myotis septentrionalis		BOVA
060029	FTST	IIa	Lance, yellow	Elliptio lanceolata		BOVA,HU6
050020	SE	Ia	Bat, little brown	Myotis lucifugus		BOVA
050034	SE	Ia	Bat, Rafinesque's eastern big-eared	Corynorhinus rafinesquii macrotis		BOVA,HU6
050027	SE	Ia	Bat, tri-colored	Perimyotis subflavus		BOVA
060006	SE	Ib	Floater, brook	Alasmidonta varicosa		BOVA
040293	ST	Ia	Shrike, loggerhead	Lanius ludovicianus		BOVA
060173	FPST	Ia	Pigtoe, Atlantic	Fusconaia masoni		BOVA,HU6
060081	ST	IIa	Floater, green	Lasmigona subviridis		BOVA,HU6
040292	ST		Shrike, migrant loggerhead	Lanius ludovicianus migrans		BOVA
030063	CC	IIIa	Turtle, spotted	Clemmys guttata		BOVA,HU6
060084		Ib	Pigtoe, Virginia	Lexingtonia subplana		BOVA
040213		Ic	Owl, northern saw-whet	Aegolius acadicus		BOVA,HU6
040052		IIa	Duck, American black	Anas rubripes		BOVA,HU6
040029		IIa	Heron, little blue	Egretta caerulea caerulea		BOVA
040320		IIa	Warbler, cerulean	Setophaga cerulea		BOVA,HU6
040140		IIa	Woodcock, American	Scolopax minor		BOVA,HU6
040105		IIb	Rail, king	Rallus elegans		BOVA

To view **All 421 species** [View 421](#)

*FE=Federal Endangered; FT=Federal Threatened; SE=State Endangered; ST=State Threatened; FP=Federal Proposed; FC=Federal Candidate; CC=Collection Concern

**I=VA Wildlife Action Plan - Tier I - Critical Conservation Need; II=VA Wildlife Action Plan - Tier II - Very High Conservation Need; III=VA Wildlife Action Plan - Tier III - High Conservation Need;

IV=VA Wildlife Action Plan - Tier IV - Moderate Conservation Need

Virginia Wildlife Action Plan Conservation Opportunity Ranking:

a - On the ground management strategies/actions exist and can be feasibly implemented.;

b - On the ground actions or research needs have been identified but cannot feasibly be implemented at this time.;

c - No on the ground actions or research needs have been identified or all identified conservation opportunities have been exhausted.

Bat Colonies or Hibernacula: **Not Known**

Anadromous Fish Use Streams

N/A

Impediments to Fish Passage (2 records)

[View Map of All Fish Impediments](#)

ID	Name	River	View Map
1053	FLIPPEN DAM	MUDDY CREEK	Yes
707	SANDERSON DAM	DAVIS CREEK	Yes

Colonial Water Bird Survey

N/A

Threatened and Endangered Waters

N/A

Managed Trout Streams

N/A

Bald Eagle Concentration Areas and Roosts

N/A

Bald Eagle Nests

N/A

Species Observations (1 records)

[View Map of All Query Results Species Observations](#)

obsID	class	Date Observed	Observer	N Species			View Map
				Different Species	Highest TE*	Highest Tier**	
617928	SppObs	Aug 31 2012	Joseph ; Mitchell	1		IV	Yes

Displayed 1 Species Observations

Habitat Predicted for Aquatic WAP Tier I & II Species

N/A

Habitat Predicted for Terrestrial WAP Tier I & II Species

N/A

Virginia Breeding Bird Atlas Blocks

N/A

Public Holdings:

N/A

Summary of BOVA Species Associated with Cities and Counties of the Commonwealth of Virginia:

FIPS Code	City and County Name	Different Species	Highest TE	Highest Tier
049	Cumberland	348	FTSE	I
145	Powhatan	348	FTSE	I

USGS 7.5' Quadrangles:

Whiteville
Trenholm

USGS NRCS Watersheds in Virginia:

N/A

USGS National 6th Order Watersheds Summary of Wildlife Action Plan Tier I, II, III, and IV Species:

HU6 Code	USGS 6th Order Hydrologic Unit	Different Species	Highest TE	Highest Tier
JM71	Muddy_Creek	51	FTSE	I

Compiled on 4/7/2020, 10:36:13 AM I1024192.0 report=all searchType= R dist= 3218 poi= 37.5808920 -78.1254458

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Natural Heritage Resources

Your Criteria

Taxonomic Group: Select All

Global Conservation Status Rank: Select All

State Conservation Status Rank: Select All

Federal Legal Status: LE - Listed endangered,LT - Listed threatened

State Legal Status: LE - Listed endangered,LT - Listed threatened

Watershed (8 digit HUC): 02080205 - Middle James-Willis River

Subwatershed (12 digit HUC): JM71 - Muddy Creek-Davis Creek

Search Run: 4/7/2020 10:21:29 AM

Result Summary

Total Species returned: 4

Total Communities returned: 0

Click scientific names below to go to NatureServe report.

Click column headings for an explanation of species and community ranks.

Common Name/Natural Community	Scientific Name	Scientific Name Linked	Global Conservation Status Rank	State Conservation Status Rank	Federal Legal Status	State Legal Status	Statewide Occurrences	Virginia Coastal Zone
Middle James-Willis								
Muddy Creek-Davis Creek								
BIRDS								
Loggerhead Shrike	Lanius ludovicianus	Lanius ludovicianus	G4	S1B,S2N	None	LT	41	N
BIVALVIA (MUSSELS)								
Yellow Lance	Elliptio lanceolata	Elliptio lanceolata	G2	S2S3	LT	None	48	N
Atlantic Pigtoe	Fusconaia masoni	Fusconaia masoni	G1	S2	PT	LT	27	N
Green Floater	Lasmigona subviridis	Lasmigona subviridis	G3	S2	None	LT	65	N

Note: On-line queries provide basic information from DCR's databases at the time of the request. They are NOT to be substituted for a project review or for on-site surveys required for environmental assessments of specific project areas.

For Additional Information on locations of Natural Heritage Resources please submit an [information request](#).

To Contribute information on locations of natural heritage resources, please fill out and submit a [rare species sighting form](#).



The CENTER for
CONSERVATION
BIOLOGY

CCB Mapping Portal



Layers: VA Eagle Nest Locator, VA Eagle Nest Buffers, Eagle Roosts, Eagle Roost Polygons, Eagle Roost Buffers

Map Center [longitude, latitude]: [-78.12249183654785, 37.57468486365454]

Map Link:

<https://cbbirds.org/maps/#layer=VA+Eagle+Nest+Locator&layer=VA+Eagle+Nest+Buffers&layer=Eagle+Roosts&layer=Eagle+Roost+Polygons&layer=Eagle+Roost+Buffers&zoom=14&lat=37.57468486365454&lng=-78.12249183654785&base=Street+Map+%28OSM%2FCarto%29>

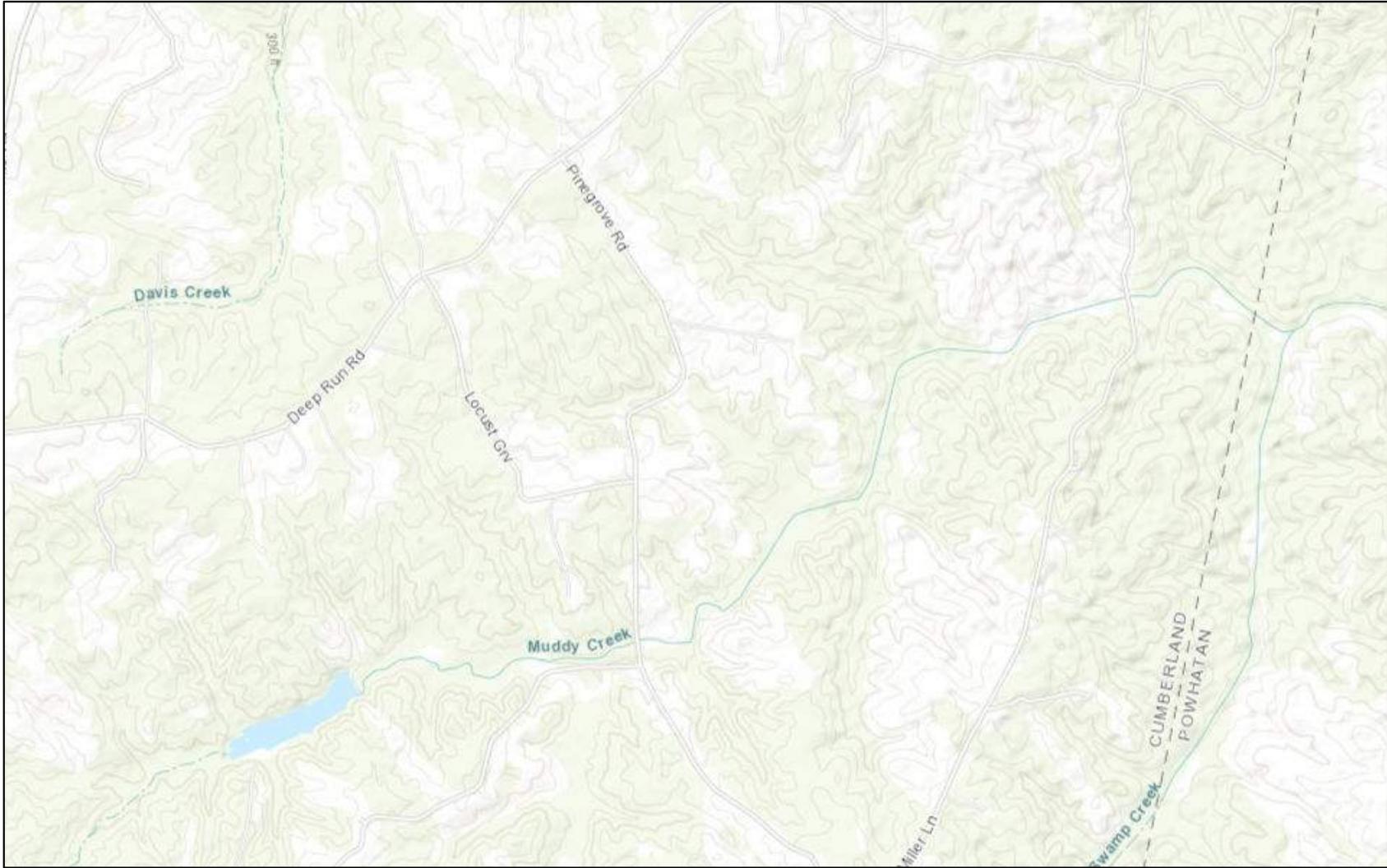
Report Generated On: 04/07/2020

The Center for Conservation Biology (CCB) provides certain data online as a free service to the public and the regulatory sector. CCB encourages the use of its data sets in wildlife conservation and management applications. These data are protected by intellectual property laws. All users are reminded to view the [Data Use Agreement](#) to ensure compliance with our data use policies. For additional data access questions, view our [Data Distribution Policy](#), or contact our Data Manager, Marie Pitts, at mlpitts@wm.edu or 757-221-7503.

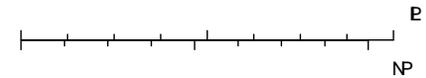
Report generated by [The Center for Conservation Biology Mapping Portal](#).

To learn more about CCB visit cbbirds.org or contact us at info@cbbirds.org

1/4 RD W/L RQ/DG 5 RW 7 UHV



9

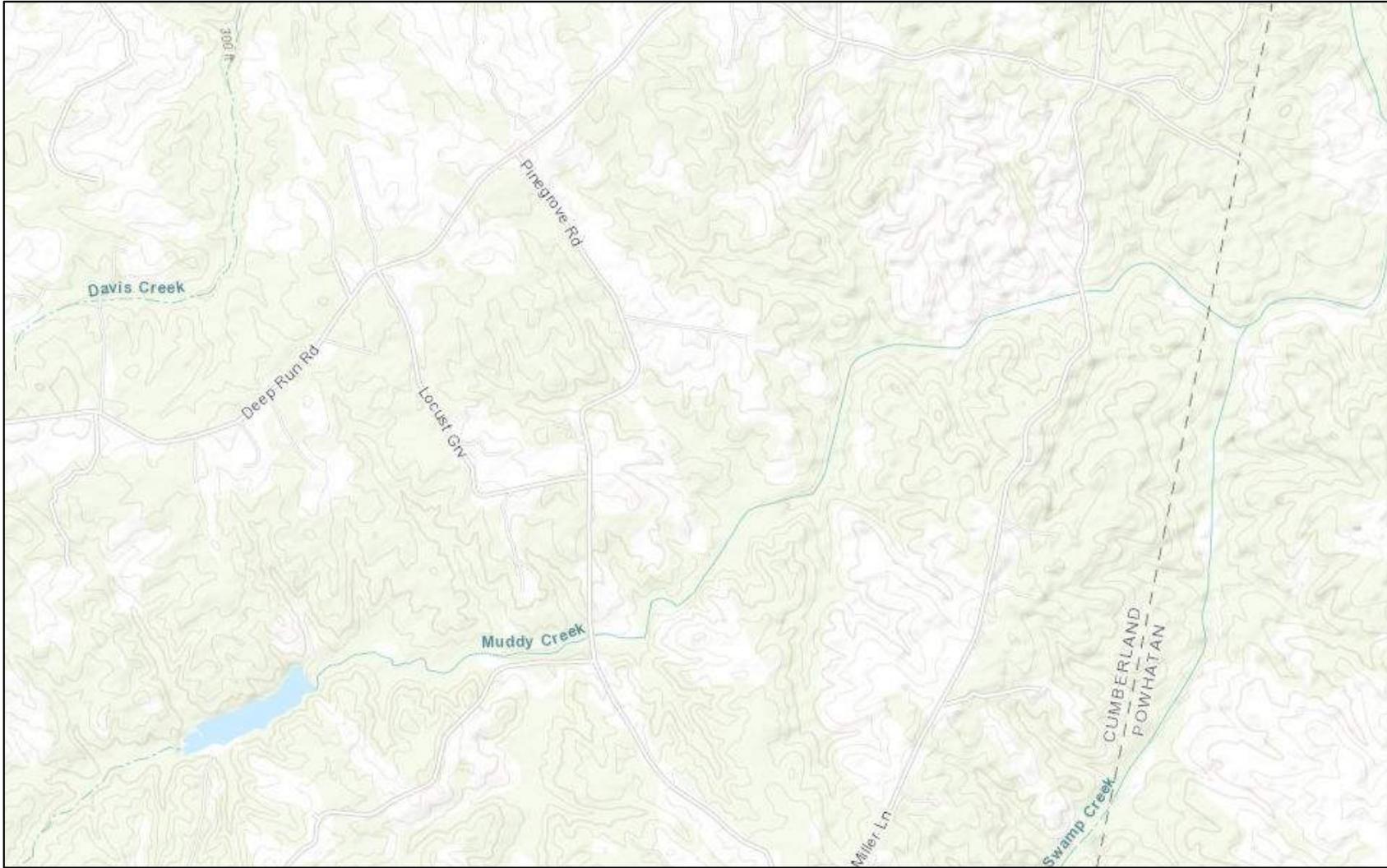


600 FT (UL) (200 FT) (100 FT) (50 FT) (25 FT) (12.5 FT)

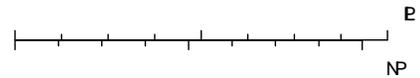
951W 1/4 LULQ.D6VUL (200) (60) (55)

(8V) (P) (000) (V) (U) (V)

7UL FRORUH%DW DQGLWWOH%URQ%DW



9



60UFV 7UL 0UEQ ,QWHBS LGRHPOW 3RUS 026

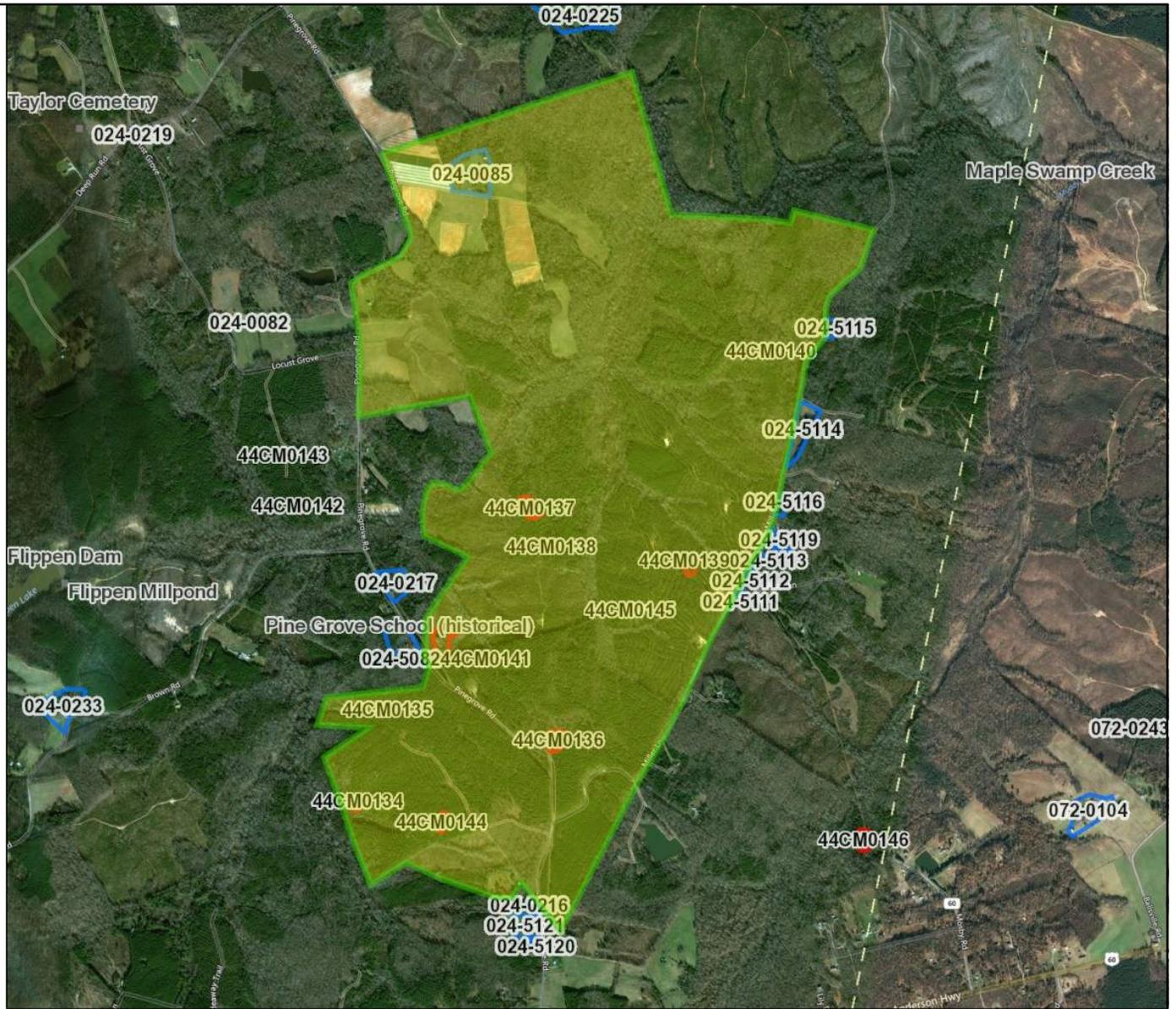
951W 2LULQ.D6VUL 0UEQ , 060000

HSV 0P00S,0000S,VKULV



Legend

- Architecture Resources
- Architecture Labels
- Individual Historic District Properties
- Archaeological Resources
- Archaeology Labels
- DHR Easements
- USGS GIS Place names
- County Boundaries



Title: Green Ridge Landfill PRM

Date: 6/4/2020

DISCLAIMER: Records of the Virginia Department of Historic Resources (DHR) have been gathered over many years from a variety of sources and the representation depicted is a cumulative view of field observations over time and may not reflect current ground conditions. The map is for general information purposes and is not intended for engineering, legal or other site-specific uses. Map may contain errors and is provided "as-is". More information is available in the DHR Archives located at DHR's Richmond office.

Notice if AE sites: Locations of archaeological sites may be sensitive the National Historic Preservation Act (NHPA), and the Archaeological Resources Protection Act (ARPA) and Code of Virginia §2.2-3705.7 (10). Release of precise locations may threaten archaeological sites and historic resources.

Feet
 0 600 1200 1800 2400
 1:36,112 / 1"=3,009 Feet

Snapshot

Date Generated: June 04, 2020

Site Name: Graveyard
Site Classification: Terrestrial, open air
Year(s): No Data
Site Type(s): Cemetery
Other DHR ID: No Data
Temporary Designation: Site 1

Site Evaluation Status

DHR Staff: Potentially Eligible

Locational Information

USGS Quad: WHITEVILLE
County/Independent City: Cumberland (County)
Physiographic Province: Piedmont
Elevation: 330
Aspect: Facing Southeast
Drainage: James
Slope: 2 - 6
Acreage: 0.360
Landform: Ridge Spur
Ownership Status: Private
Government Entity Name: No Data

Site Components

Component 1

Category: Funerary
Site Type: Cemetery
Cultural Affiliation: Indeterminate
DHR Time Period: Reconstruction and Growth
Start Year: No Data
End Year: No Data

Comments: 2018 Browning: The site represents as at least 22 burials represented by fieldstone headers and some fieldstone footers. The graveyard appears as roughly 3 irregular rows of graves. Initial inspection was in August with leaf growth that precluded a full understanding of the layout. Additional graves are not only likely but very probable. The initial appearance is that of an African-American graveyard, but without further investigation, that attribution is speculative.

Bibliographic Information

Bibliography:

No Data

Informant Data:

No Data

CRM Events

Event Type: DHR Staff: Potentially Eligible

DHR ID: 44CM0134
Staff Name: Roger Kirchen
Event Date: 4/30/2020
Staff Comment: 2019-0180

Event Type: Archaeological Assessment

Project Staff/Notes:

No Data

Project Review File Number: No Data
Sponsoring Organization: No Data
Organization/Company: Browning & Associates, LTD
Investigator: Lyle Browning
Survey Date: 10/1/2018

Survey Description:

2018 Browning: visual examination of impact area, 2018

Current Land Use	Date of Use	Comments
Forest	8/28/2018 12:00:00 AM	2018 Browning: site appears in forest with limited visibility.

Threats to Resource: None Known
Site Conditions: Intact Cultural Level
Survey Strategies: Informant, Observation
Specimens Collected: No
Specimens Observed, Not Collected: No

Artifacts Summary and Diagnostics:

No Data

Summary of Specimens Observed, Not Collected:

No Data

Current Curation Repository: No Data
Permanent Curation Repository: No Data
Field Notes: No
Field Notes Repository: No Data
Photographic Media: Digital
Survey Reports: Yes

Survey Report Information:

Green Ridge Landfill, Phase IA Cultural Resources Evaluation, Browning & Associates, LTD. 2018

Survey Report Repository: DHR
DHR Library Reference Number: No Data

Significance Statement: 2018 Browning: The graveyard shows 3 rows of intermittent graves. There are some header and footer stones, all of which are fieldstones. There are some with header stones only and a few with no markers. The site is located just off the crest of a spur ridge. At least 22 graves are in the graveyard. Revisiting the site after leaf fall will be done. The graveyard is probably African-American. It is within a buffer zone for the proposed Green Ridge Landfill and will be cleaned up and maintained by the landfill owners.

Surveyor's Eligibility Recommendations: Recommended Potentially Eligible
Surveyor's NR Criteria Recommendations, : A, D
Surveyor's NR Criteria Considerations: Cemetery

Snapshot

Date Generated: June 04, 2020

Site Name: Reverend's Still
Site Classification: Terrestrial, open air
Year(s): No Data
Site Type(s): Distillery
Other DHR ID: No Data
Temporary Designation: Site 2

Site Evaluation Status

Not Evaluated

Locational Information

USGS Quad: WHITEVILLE
County/Independent City: Cumberland (County)
Physiographic Province: Piedmont
Elevation: 290
Aspect: Facing South
Drainage: James
Slope: 0 - 2
Acreage: 0.080
Landform: Floodplain
Ownership Status: Private
Government Entity Name: No Data

Site Components

Component 1

Category: Industry/Processing/Extraction
Site Type: Distillery
Cultural Affiliation: Indeterminate
DHR Time Period: Reconstruction and Growth
Start Year: No Data
End Year: No Data

Comments: 2018 Browning: The site is represented by 4 galvanized sided, wood bottomed barrels, 1 55gal metal barrel adapted with a pipe extension, with a cinderblock base, several barrel hoops for wooden barrels, all of which have axe marks and bullet holes from ATF demolition. The still was run by a Baptist minister who owned the first automobile in Cumberland County. A condition of sale was that the car was to be used for: "no illicit purpose" and if was used as such, the car would be forfeit as would the monthly payments. The car was never forfeited.

Bibliographic Information

Bibliography:

No Data

Informant Data:

No Data

CRM Events

Event Type: DHR Staff: Other

DHR ID: 44CM0135
Staff Name: Roger Kirchen
Event Date: 4/30/2020
Staff Comment: 2019-0180. Remains unevaluated.

Event Type: Archaeological Assessment

Project Staff/Notes:
No Data
Project Review File Number: No Data
Sponsoring Organization: No Data
Organization/Company: Browning & Associates, LTD
Investigator: Lyle Browning
Survey Date: 10/1/2018

Survey Description:
2018 Browning: visual examination of impact area, 2018

Current Land Use	Date of Use	Comments
Forest	10/7/2018 12:00:00 AM	2018 Browning: the still is located in a forested floodplain adjacent a small stream.

Threats to Resource: None Known
Site Conditions: Surface Features
Survey Strategies: Informant, Observation
Specimens Collected: No
Specimens Observed, Not Collected: No
Artifacts Summary and Diagnostics:

No Data

Summary of Specimens Observed, Not Collected:
No Data

Current Curation Repository: No Data
Permanent Curation Repository: No Data
Field Notes: No
Field Notes Repository: No Data
Photographic Media: Digital
Survey Reports: Yes

Survey Report Information:
Green Ridge Landfill, Phase IA Cultural Resources Evaluation, Browning & Associates, LTD. 2018

Survey Report Repository: DHR
DHR Library Reference Number: No Data

Significance Statement:
2018 Browning: As related by knowledgeable locals, the still was run by a Baptist Minister at the turn of the 20th century. He also owned one of the first cars in Cumberland County and a condition of sale was that the car be used for "No illicit purpose" and if it was so used, the car and car payments would be forfeit. The site is represented by 5 galvanized metal sided, wooden bottomed barrels, various barrel hoops and a 55 gallon metal barrel adapted for use as a boiler. The boiler sits upon a cinderblock foundation. The site was destroyed by local law enforcement as there are axe chopmarks in the barrels and boiler along with bullet holes. The still represents a well preserved open-air illegal distillery common in VA but under-represented in the records. The site is as it was when destroyed apart from the disintegration of the wooden barrels and of the galvanized metal wooden bottomed barrels.

The still is in a buffer zone and will not be affected by landfill construction. Photos have been taken and a detailed plan will be composed.

Surveyor's Eligibility Recommendations: Recommended Eligible

Surveyor's NR Criteria Recommendations, :	A, D
Surveyor's NR Criteria Considerations:	No Data

Snapshot

Date Generated: June 04, 2020

Site Name: Moved House
Site Classification: Terrestrial, open air
Year(s): No Data
Site Type(s): Farmstead
Other DHR ID: No Data
Temporary Designation: Site 3

Site Evaluation Status

DHR Staff: Potentially Eligible

Locational Information

USGS Quad: TRENHOLM, WHITEVILLE
County/Independent City: Cumberland (County)
Physiographic Province: Piedmont
Elevation: 370
Aspect: Facing Southwest
Drainage: James
Slope: 0 - 2
Acreage: 2.220
Landform: Knoll
Ownership Status: Private
Government Entity Name: No Data

Site Components

Component 1

Category: Domestic
Site Type: Farmstead
Cultural Affiliation: African American, Euro-American
DHR Time Period: Antebellum Period, Civil War, Early National Period, Reconstruction and Growth, The New Dominion, World War I to World War II
Start Year: No Data
End Year: No Data

Comments: October 2018 Browning: The site presents as an "L-shaped" cellar filled with discarded automobile and household items of dump origin. Box "trees" are present south and east of the cellar hole. West of the cellar is a remnant of a timber framed mortise and tenoned outbuilding with machine cut and wire nails into the uprights. This structure sits upon a foundation of ashlar block stones with no mortar. Electricity was in use at the house. Behind the structure away from Pinegrove Road, there is an extensive former lawn area, now overgrown. The house was reported to have been removed to Britain about 30 years ago. Currently, there is no verification of any of this.

July 2019 Rose: According to a local contractor and long-time resident of Powhatan County, the house was occupied until 1975, when it was dismantled and reassembled on a new site on the west side of Ballsville Road in Powhatan County, approximately four miles east of its former location. This information has not been confirmed, but the informant knew the contractor who had moved and reassembled the structure by name, and mentioned that he has since retired and moved away from the area.

A structure and associated outbuildings are visible and appears to be occupied in the 1947 and 1958 aerial photographs of the project vicinity.

Eighty-six STPs were excavated within and immediately adjacent to the boundary of site 44CM0136. One hundred twenty-eight artifacts were recovered from 21 positive STPs. Soil profiles retain a high degree of stratigraphic integrity. This site is interpreted as the remains of a domestic farmstead dating from the late eighteenth- to the late twentieth- century.

Bibliographic Information

Bibliography:

2019 Rose, J. Craig and Lyle Browning
Phase IB Cultural Resources Investigation of the Green Ridge Property, Cumberland County, Virginia

Informant Data:

No Data

CRM Events

Event Type: DHR Staff: Potentially Eligible

DHR ID: 44CM0136
Staff Name: Roger Kirchen
Event Date: 4/30/2020
Staff Comment: 2019-0180

Event Type: Survey:Phase I

Project Staff/Notes:

Craig Rose-Principal Investigator
Lyle Browning-Project Manager
C. Neil Manson-Historic Researcher
Jorge Quitana - Field Archaeologist
Mike Johnson - Field Archaeologist
Emery Bencini - Field Archaeologist
Steve Rann - Field Archaeologist

Project Review File Number: No Data
Sponsoring Organization: No Data
Organization/Company: Dominion Research Group
Investigator: Craig Rose
Survey Date: 3/4/2019

Survey Description:

Phase I archaeological survey of a 1,200 acre property in Cumberland County, Virginia

Current Land Use	Date of Use	Comments
Forest	7/1/2019 12:00:00 AM	Overgrown yard.
Threats to Resource:		Development
Site Conditions:		Surface Deposits Present And With Subsurface Integrity
Survey Strategies:		Historic Map Projection, Observation, Subsurface Testing
Specimens Collected:		Yes
Specimens Observed, Not Collected:		No

Artifacts Summary and Diagnostics:

Ceramics
4pearlware sherds
3stoneware sherds
1unidentified sherd
Glass
24windowpane, lime soda fragments
5bottle/jar, automatic bottle machine (ABM) fragments
4bottle/jar, unidentified fragments
3bottle/jar, contact mold fragments
3unidentifiedlime soda fragments
1windowpane, unidentified fragment
1unidentified fragment
Metal
10wire nails/fragments
9unidentified nails/fragments
6unidentified ferrous metal fragments
4cut nails/fragments
1chain link, possible spring snap link
1wrought nail
1button flat, round, copper alloy, embossed lettering on back LONDON
Miscellaneous
13brick fragments
5bone fragments

Summary of Specimens Observed, Not Collected:

No Data

Current Curation Repository: Browning & Associates, Hartfield, VA
Permanent Curation Repository: DHR

Field Notes: Yes
Field Notes Repository: DHR
Photographic Media: Digital
Survey Reports: Yes
Survey Report Information:
 2019 Rose, J. Craig and Lyle Browning
 "Green Ridge, Phase IB Cultural Resources Investigation", Browning & Associates, LTD. Hartfield, Virginia.
Survey Report Repository: DHR
DHR Library Reference Number: No Data
Significance Statement:
 2018 Browning: The site is an L-shaped cellar with at least one timber framed outbuilding with machine cut nails. The timbers have circular saw marks indicative of a post 1850 date. There appear to be other outbuildings in the compound as would be expected for a major household. Extensive open areas for gardens and grounds are behind the house. Box "trees" mark the front of the house oriented towards Pinegrove Road. The house was reported to have been moved to England (unsubstantiated as yet) and should therefore be of some significance.
 2019 Rose: Site 44CM0136 includes the remains of the "Jeffrey" plantation noted on Gilmer's 1864 Map of Cumberland County and visible in the 1947 and 1958 aerial images of the project vicinity. Although the dwelling was reportedly dismantled and relocated, outbuildings remain and subsurface deposits retain a high degree of integrity.
Surveyor's Eligibility Recommendations: Recommended Potentially Eligible
Surveyor's NR Criteria Recommendations, : D
Surveyor's NR Criteria Considerations: No Data

Event Type: Archaeological Assessment

Project Staff/Notes:
 No Data
Project Review File Number: No Data
Sponsoring Organization: No Data
Organization/Company: Browning & Associates, LTD
Investigator: Lyle Browning
Survey Date: 10/1/2018
Survey Description:
 2018 Browning: visual examination of impact area, 2018

Current Land Use	Date of Use	Comments
Forest	8/28/2018 12:00:00 AM	2018 Browning: The site has extensive grounds, former outbuildings and open space for various uses set upon an elevation.

Threats to Resource: Development
Site Conditions: Surface Deposits Present And With Subsurface Integrity
Survey Strategies: Historic Map Projection, Informant, Observation
Specimens Collected: No
Specimens Observed, Not Collected: No
Artifacts Summary and Diagnostics:
 No Data
Summary of Specimens Observed, Not Collected:
 No Data
Current Curation Repository: No Data
Permanent Curation Repository: No Data
Field Notes: No
Field Notes Repository: No Data
Photographic Media: Digital
Survey Reports: Yes
Survey Report Information:
 Green Ridge Landfill, Phase IA Cultural Resources Evaluation, Browning & Associates, LTD. 2018
Survey Report Repository: DHR

DHR Library Reference Number:	No Data
Significance Statement:	2018 Browning: The site is an L-shaped cellar with at least one timber framed outbuilding with machine cut nails. The timbers have circular saw marks indicative of a post 1850 date. There appear to be other outbuildings in the compound as would be expected for a major household. Extensive open areas for gardens and grounds are behind the house. Box "trees" mark the front of the house oriented towards Pinegrove Road. The house was reported to have been moved to England (unsubstantiated as yet) and should therefore be of some significance.
Surveyor's Eligibility Recommendations:	Recommended for Further Survey
Surveyor's NR Criteria Recommendations, :	No Data
Surveyor's NR Criteria Considerations:	No Data

Snapshot

Date Generated: June 04, 2020

Site Name: Frog Site
Site Classification: Terrestrial, open air
Year(s): No Data
Site Type(s): Farmstead
Other DHR ID: No Data
Temporary Designation: Site 4

Site Evaluation Status

DHR Staff: Not Eligible

Locational Information

USGS Quad: WHITEVILLE
County/Independent City: Cumberland (County)
Physiographic Province: Piedmont
Elevation: 320
Aspect: Facing Southeast
Drainage: James
Slope: 0 - 2
Acreage: 2.240
Landform: Knoll
Ownership Status: Private
Government Entity Name: No Data

Site Components

Component 1

Category: Domestic
Site Type: Farmstead
Cultural Affiliation: African American, Indeterminate
DHR Time Period: Reconstruction and Growth, The New Dominion, World War I to World War II
Start Year: No Data
End Year: No Data

Comments: October 2018 Browning: The site is represented by a surface scatter of 20th century ceramics, a glass frog used for flower arrangements and a 20th century ceramic coffee mug.

July 2019 Rose: As originally defined, the site location corresponds to a heavily disturbed staging area. However, the STP survey demonstrated that the site extends further to the north and west, into an area that, while impacted by previous timbering activities, retains a greater degree of stratigraphic integrity. Thirty-six artifacts were recovered from sixteen positive STPs. Based on historic map projection, surface evidence of cultural activity, and positive STPs, site 44CM0137 measures approximately 400 by 250 feet and is interpreted as the remains of a late 19th/early 20th century dwelling. The revised site boundary surrounds a structure visible in both the 1947 and 1958 aerial photographs of the project vicinity.

Bibliographic Information

Bibliography:

2019 Rose, J. Craig and Lyle Browning
Phase IB Cultural Resources Investigation of the Green Ridge Property, Cumberland County, Virginia

Informant Data:

No Data

CRM Events

Event Type: DHR Staff: Not Eligible

DHR ID: 44CM0137
Staff Name: Roger Kirchen
Event Date: 4/30/2020
Staff Comment: 2019-0180

Event Type: Survey:Phase I

Project Staff/Notes:
Craig Rose-Principal Investigator
Lyle Browning-Project Manager
C. Neil Manson-Historic Researcher
Jorge Quitana - Field Archaeologist
Mike Johnson - Field Archaeologist
Emery Bencini - Field Archaeologist
Steve Rann - Field Archaeologist

Project Review File Number: No Data
Sponsoring Organization: No Data
Organization/Company: Dominion Research Group
Investigator: Craig Rose
Survey Date: 3/4/2019
Survey Description:

Phase I archaeological survey of a 1,200 acre property in Cumberland County, Virginia

Current Land Use	Date of Use	Comments
Forest	7/1/2019 12:00:00 AM	Recently logged.
Threats to Resource:	Development	
Site Conditions:	50-74% of Site Destroyed	
Survey Strategies:	Historic Map Projection, Observation, Subsurface Testing	
Specimens Collected:	Yes	
Specimens Observed, Not Collected:	No	

Artifacts Summary and Diagnostics:
Ceramics
3whiteware sherds
1hard paste porcelain sherd
1pearlware sherd
Glass
16bottle/jar, automatic bottle machine (ABM) fragments
3bottle/jar, lime soda fragments
3windowpane lime soda fragments
2unidentifiedjar fragments
1bottle, automatic bottle machine (ABM) fragment
1unidentified fragment
Metal
2unidentified nails/fragments
2unidentified ferrous metal fragments
Miscellaneous
2coal fragments

Summary of Specimens Observed, Not Collected:
No Data
Current Curation Repository: Browning & Associates, Hartfield, VA
Permanent Curation Repository: DHR
Field Notes: Yes
Field Notes Repository: DHR
Photographic Media: Digital
Survey Reports: Yes
Survey Report Information:

2019 Rose, J. Craig and Lyle Browning
 "Green Ridge, Phase IB Cultural Resources Investigation", Browning & Associates, LTD. Hartfield, Virginia.

Survey Report Repository: DHR
DHR Library Reference Number: No Data
Significance Statement: 2018 Browning: The site is within the overall area of Clinton which was an African-American Reconstruction and later era community. According to local individuals, African-Americans essentially homesteaded "back 40" type lands that were fairly exhausted by agricultural practices and erected homesteads upon them. These were subsistence level farms.
 2019 Rose: The Frog Site (44CM0137) is visible in the 1947 and 1958 aerial images and includes the remains of a late 19th/early 20th century dwelling. The southern portion of 44CM0137 has been destroyed by recent logging activities and while new deposits were identified in a less disturbed portion of the ridge during the STP survey, all finds were recovered from plowed soil horizons.
Surveyor's Eligibility Recommendations: Recommended Not Eligible
Surveyor's NR Criteria Recommendations, : No Data
Surveyor's NR Criteria Considerations: No Data

Event Type: Archaeological Assessment

Project Staff/Notes:
 No Data
Project Review File Number: No Data
Sponsoring Organization: No Data
Organization/Company: Browning & Associates, LTD
Investigator: Lyle Browning
Survey Date: 10/1/2018

Survey Description:
 2018 Browning: visual examination of impact area, 2018

Current Land Use	Date of Use	Comments
Forest	10/2/2018 12:00:00 AM	2018 Browning: The site is in cutover timber with a sparse artifact scatter.

Threats to Resource: Development
Site Conditions: Surface Deposits Present But Subsurface Not Tested
Survey Strategies: Observation
Specimens Collected: No
Specimens Observed, Not Collected: Yes

Artifacts Summary and Diagnostics:
 No Data

Summary of Specimens Observed, Not Collected:
 2018 Browning: glass "frog" for flower arrangement, hotelware coffee cup ceramics.

Current Curation Repository: No Data
Permanent Curation Repository: No Data
Field Notes: No
Field Notes Repository: No Data
Photographic Media: Digital
Survey Reports: Yes

Survey Report Information:
 Green Ridge Landfill, Phase IA Cultural Resources Evaluation, Browning & Associates, LTD. 2018

Survey Report Repository: DHR
DHR Library Reference Number: No Data
Significance Statement: 2018 Browning: The site is within the overall area of Clinton which was an African-American Reconstruction and later era community. According to local individuals, African-Americans essentially homesteaded "back 40" type lands that were fairly exhausted by agricultural practices and erected homesteads upon them. These were subsistence level farms.
Surveyor's Eligibility Recommendations: Recommended for Further Survey
Surveyor's NR Criteria Recommendations, : No Data

Surveyor's NR Criteria Considerations:

No Data

Snapshot

Date Generated: June 04, 2020

Site Name: Chimney in Field
Site Classification: Terrestrial, open air
Year(s): No Data
Site Type(s): Dwelling, single
Other DHR ID: No Data
Temporary Designation: Site 5

Site Evaluation Status

DHR Staff: Potentially Eligible

Locational Information

USGS Quad: WHITEVILLE
County/Independent City: Cumberland (County)
Physiographic Province: Piedmont
Elevation: 335
Aspect: Facing Southwest
Drainage: James
Slope: 0 - 2
Acreage: 0.440
Landform: Ridge Finger
Ownership Status: Private
Government Entity Name: No Data

Site Components

Component 1

Category: Domestic
Site Type: Dwelling, single
Cultural Affiliation: African American
DHR Time Period: Antebellum Period, Civil War, Reconstruction and Growth, The New Dominion, World War I to World War II
Start Year: No Data
End Year: No Data
Comments:

October 2018 Browning: The site represents as a mud-mortared stone chimney in a cut-over timbered area with a single dead tree. The chimney has an iron bar at the top of the fireplace.

The site appears to be a slave quarters/Free Negro/Post-Bellum African-American domestic structure without substantial attribution and awaiting confirmation.

July 2019 Rose: Twenty STPs were excavated within and around the site boundary, soil profiles within the site boundary retain a high degree of stratigraphic integrity; however, none produced evidence of historic activity.

Following the STP survey, a metal detector survey was undertaken in an effort to provide evidence of site activities. The metal detector survey area extended approximately 125 feet north to south by 100 feet east to west and identified a general scatter of metal objects across most of the survey area, with two dense concentrations in the central portion of the site. The larger concentration surrounded the chimney and likely represents the location of the former structure.

No structure is visible in this location in the 1947 or 1958 aerial photographs. Considerable quantities of melted glass in the vicinity of the chimney may indicate the structure burned, prior to 1947.

Bibliographic Information

Bibliography:
2019 Rose, J. Craig and Lyle Browning
Phase IB Cultural Resources Survey of the Green Ridge Property, Cumberland County, Virginia

Informant Data:
No Data

CRM Events

Event Type: DHR Staff: Potentially Eligible

DHR ID: 44CM0138
Staff Name: Roger Kirchen
Event Date: 4/30/2020
Staff Comment: 2019-0180

Event Type: Survey:Phase I

Project Staff/Notes:

Craig Rose-Principal Investigator
Lyle Browning-Project Manager
C. Neil Manson-Historic Researcher
Jorge Quitana - Field Archaeologist
Mike Johnson - Field Archaeologist
Emery Bencini - Field Archaeologist
Steve Rann - Field Archaeologist

Project Review File Number: No Data
Sponsoring Organization: No Data
Organization/Company: Dominion Research Group
Investigator: Craig Rose
Survey Date: 3/4/2019
Survey Description:

Phase I archaeological survey of a 1,200 acre property in Cumberland County, Virginia

Current Land Use	Date of Use	Comments
Forest	7/1/2019 12:00:00 AM	Recently logged.
Threats to Resource:	Development	
Site Conditions:	Surface Deposits Present And With Subsurface Integrity	
Survey Strategies:	Historic Map Projection, Metal Detection, Observation, Subsurface Testing	
Specimens Collected:	Yes	
Specimens Observed, Not Collected:	No	

Artifacts Summary and Diagnostics:

Ceramics
2whiteware
1hard paste porcelain
1pearlware
1stoneware
Glass
17unidentifiedglass
8windowpane, lime soda
10unidentified,lime soda
6bottle/jar, automatic bottle machine (ABM)
2tableware
1cannister
1bottle/jar, unidentified
1bottle, duraglas
Metal
76wire nails
8wire
8cut nails
5cast iron
5unidentified ferrous metal
3unidentified non-ferrous metal
2staples
2steamer trunk corner guards
2unidentified nails
1spoon
1strap hinge
1enamelwarepot lid
1hinge
1door lock case

1boot spur
1eye bolt
1safety pin
Miscellaneous
2unidentified fragments
1bone fragment

Summary of Specimens Observed, Not Collected:

No Data

Current Curation Repository: Browning & Associates, Harfield, VA

Permanent Curation Repository: DHR

Field Notes: Yes

Field Notes Repository: DHR

Photographic Media: Digital

Survey Reports: Yes

Survey Report Information:

2019 Rose, J. Craig and Lyle Browning
"Green Ridge, Phase IB Cultural Resources Investigation", Browning & Associates, LTD. Hartfield, Virginia.

Survey Report Repository: DHR

DHR Library Reference Number: No Data

Significance Statement: 2018 Browning: The site is within the overall area of Clinton which was an African-American Reconstruction and later era community. According to local individuals, African-Americans essentially homesteaded "back 40" type lands that were fairly exhausted by agricultural practices and erected homesteads upon them. These were subsistence level farms. The site is in a cutover timber area with nearly zero surface visibility and thick weed growth precluding much examination.

2019 Rose: Site 44CM0138 includes a localized surface scatter of melted glass and a partially collapsed stone chimney. Shovel testing found an intact soil profile, but produced no evidence of the historic occupation. A subsequent metal detector survey identified a general scatter of artifacts between the chimney and a large dead tree that likely marked the limits of the yard; and two metal concentrations, one likely identifies the location of the former dwelling. Site 44CM0138 includes the remains of a 19th/20th century dwelling and retains a high degree of stratigraphic integrity.

Surveyor's Eligibility Recommendations: Recommended Potentially Eligible

Surveyor's NR Criteria Recommendations, : D

Surveyor's NR Criteria Considerations: No Data

Event Type: Archaeological Assessment

Project Staff/Notes:

No Data

Project Review File Number: No Data

Sponsoring Organization: No Data

Organization/Company: Browning & Associates, LTD

Investigator: Lyle Browning

Survey Date: 10/1/2018

Survey Description:

2018 Browning: visual examination of impact area, 2018

Current Land Use	Date of Use	Comments
Forest	10/2/2018 12:00:00 AM	No Data

Threats to Resource: Development

Site Conditions: Surface Deposits Present But Subsurface Not Tested

Survey Strategies: Informant, Observation

Specimens Collected: No

Specimens Observed, Not Collected: No

Artifacts Summary and Diagnostics:

No Data

Summary of Specimens Observed, Not Collected:

No Data

Current Curation Repository:	No Data
Permanent Curation Repository:	No Data
Field Notes:	No
Field Notes Repository:	No Data
Photographic Media:	Digital
Survey Reports:	Yes
Survey Report Information:	
	Green Ridge Landfill, Phase IA Cultural Resources Evaluation, Browning & Associates, LTD. 2018
Survey Report Repository:	DHR
DHR Library Reference Number:	No Data
Significance Statement:	2018 Browning: The site is within the overall area of Clinton which was an African-American Reconstruction and later era community. According to local individuals, African-Americans essentially homesteaded "back 40" type lands that were fairly exhausted by agricultural practices and erected homesteads upon them. These were subsistence level farms. The site is in a cutover timber area with nearly zero surface visibility and thick weed growth precluding much examination.
Surveyor's Eligibility Recommendations:	Recommended for Further Survey
Surveyor's NR Criteria Recommendations, :	No Data
Surveyor's NR Criteria Considerations:	No Data

Snapshot

Date Generated: June 04, 2020

Site Name: Periwinkle Patch/Hobson Mansion
Site Classification: Terrestrial, open air
Year(s): No Data
Site Type(s): Dwelling, single
Other DHR ID: No Data
Temporary Designation: Site 6

Site Evaluation Status

DHR Staff: Potentially Eligible

Locational Information

USGS Quad: TRENHOLM
County/Independent City: Cumberland (County)
Physiographic Province: No Data
Elevation: 355
Aspect: Facing South
Drainage: James
Slope: 0 - 2
Acreage: 0.380
Landform: Knoll
Ownership Status: Private
Government Entity Name: No Data

Site Components

Component 1

Category: Domestic
Site Type: Dwelling, single
Cultural Affiliation: Euro-American
DHR Time Period: Antebellum Period, Civil War, Early National Period, Reconstruction and Growth, The New Dominion, World War I to World War II
Start Year: No Data
End Year: No Data
Comments: October 2018 Browning: The site represents as an extensive vinca minor patch that covers a large rectangular cellar hole north of the logging road that is the current access.

July 2019 Rose: Eighteen STPs were excavated in and around the site boundary. The typical soil profile included a Fill layer above sterile subsoil. It is unclear if the Fill represents occupation or demolition of the dwelling. Numerous brick fragments and window glass fragments and unidentified ferrous metal fragments were recovered from 5 positive STPs. Site 44CM0139 is interpreted as the remains of a 19th/20th century dwelling. No structure is visible in this location in the 1947 or 1958 aerial images and may indicate the structure was abandoned prior to that time.

Bibliographic Information

Bibliography:

2019 Rose, J. Craig and Lyle Browning
Phase IB Cultural Resources Investigation of the Green Ridge Property, Cumberland County, Virginia

Informant Data:

No Data

CRM Events

Event Type: DHR Staff: Potentially Eligible

DHR ID: 44CM0139
Staff Name: Roger Kirchen
Event Date: 4/30/2020
Staff Comment: 2019-0180

Event Type: Survey:Phase I

Project Staff/Notes:

Craig Rose-Principal Investigator
Lyle Browning-Project Manager
C. Neil Manson-Historic Researcher
Jorge Quitana - Field Archaeologist
Mike Johnson - Field Archaeologist
Emery Bencini - Field Archaeologist
Steve Rann - Field Archaeologist

Project Review File Number: No Data
Sponsoring Organization: No Data
Organization/Company: Dominion Research Group
Investigator: Craig Rose
Survey Date: 3/4/2019

Survey Description:

Phase I archaeological survey of a 1,200 acre property in Cumberland County, Virginia

Current Land Use	Date of Use	Comments
Forest	7/1/2019 12:00:00 AM	Planted pine.
Threats to Resource:		Development
Site Conditions:		Surface Deposits Present And With Subsurface Integrity
Survey Strategies:		Historic Map Projection, Observation, Subsurface Testing
Specimens Collected:		Yes
Specimens Observed, Not Collected:		No

Artifacts Summary and Diagnostics:

Glass
4windowpane, lime soda fragments
Metal
14unidentified ferrous metal fragments
1unidentified non-ferrous metal fragments
Miscellaneous
75brick fragments

Summary of Specimens Observed, Not Collected:

No Data

Current Curation Repository: Browning & Associates, Hartfield, VA
Permanent Curation Repository: DHR
Field Notes: Yes
Field Notes Repository: DHR
Photographic Media: Digital
Survey Reports: Yes

Survey Report Information:

2019 Rose, J. Craig and Lyle Browning
"Green Ridge, Phase IB Cultural Resources Investigation", Browning & Associates, LTD. Hartfield, Virginia.

Survey Report Repository: DHR
DHR Library Reference Number: No Data

Significance Statement: 2018 Browning: The site is represented by an extensive vinca patch that covers the site surface as well as the large rectangular cellar. The terrain is suitable for additional structures. This site is probably a major homestead in the area and given the size of the

cellar, would be a large house.

2019 Rose: Site 44CM0139 includes the remains of a dwelling, possibly constructed of brick. Surface features include a rectangular cellar hole, partially filled with brick rubble and a smaller depression that might be the remains of an ice house. During the STP survey, artifacts were recovered from a fill layer and the site is expected to retain a high degree of stratigraphic integrity.

Surveyor's Eligibility Recommendations: Recommended Potentially Eligible
Surveyor's NR Criteria Recommendations, : D
Surveyor's NR Criteria Considerations: No Data

Event Type: Archaeological Assessment

Project Staff/Notes:
 No Data
Project Review File Number: No Data
Sponsoring Organization: No Data
Organization/Company: Browning & Associates, LTD
Investigator: Lyle Browning
Survey Date: 10/1/2018

Survey Description:
 2018 Browning: visual examination of impact area, 2018

Current Land Use	Date of Use	Comments
Forest	8/28/2018 12:00:00 AM	No Data

Threats to Resource: Development
Site Conditions: Intact Cultural Level
Survey Strategies: Observation
Specimens Collected: No
Specimens Observed, Not Collected: No
Artifacts Summary and Diagnostics:

No Data

Summary of Specimens Observed, Not Collected:
 No Data

Current Curation Repository: No Data
Permanent Curation Repository: No Data
Field Notes: No
Field Notes Repository: No Data
Photographic Media: Digital
Survey Reports: Yes

Survey Report Information:
 Green Ridge Landfill, Phase IA Cultural Resources Evaluation, Browning & Associates, LTD. 2018

Survey Report Repository: DHR
DHR Library Reference Number: No Data

Significance Statement:
 2018 Browning: The site is represented by an extensive vinca patch that covers the site surface as well as the large rectangular cellar. The terrain is suitable for additional structures. This site is probably a major homestead in the area and given the size of the cellar, would be a large house.

Surveyor's Eligibility Recommendations: Recommended for Further Survey
Surveyor's NR Criteria Recommendations, : No Data
Surveyor's NR Criteria Considerations: No Data

Snapshot

Date Generated: June 04, 2020

Site Name: Chimney in the Woods
Site Classification: Terrestrial, open air
Year(s): No Data
Site Type(s): Dwelling, single
Other DHR ID: No Data
Temporary Designation: Site 7

Site Evaluation Status

Not Evaluated

Locational Information

USGS Quad: TRENHOLM
County/Independent City: Cumberland (County)
Physiographic Province: Piedmont
Elevation: 305
Aspect: No Data
Drainage: James
Slope: 0 - 2
Acreage: 0.240
Landform: Ridge Spur
Ownership Status: Private
Government Entity Name: No Data

Site Components

Component 1

Category: Domestic
Site Type: Dwelling, single
Cultural Affiliation: Indeterminate
DHR Time Period: Reconstruction and Growth, The New Dominion, World War I to World War II
Start Year: No Data
End Year: No Data
Comments: 2018 Browning: The site has periwinkle surrounding it. There are two fireplaces, one for each floor. The stack walls are fieldstone and straight. The top of the chimney has Common Bond brickwork. The interior walls around the fireplaces were plastered. Each fireplace has an iron bar across the top supporting the chimney.

Bibliographic Information

Bibliography:

No Data

Informant Data:

No Data

CRM Events

Event Type: DHR Staff: Other

DHR ID: 44CM0140
Staff Name: Roger Kirchen
Event Date: 4/30/2020
Staff Comment: 2019-0180. Remains unevaluated.

Event Type: Other

Project Staff/Notes:

No Data

Project Review File Number: No Data
Sponsoring Organization: No Data
Organization/Company: Browning & Associates, LTD
Investigator: Lyle Browning
Survey Date: 12/4/2018

Survey Description:

2018 Browning: Visual examination of terrain to locate archaeological sites for a Phase IA Report. No subsurface testing was performed at this level.

Current Land Use	Date of Use	Comments
Dwelling, single	12/4/2018 12:00:00 AM	2018 Browning: The site has periwinkle on the ground with a 2 story fieldstone chimney with common bond top.

Threats to Resource: Development
Site Conditions: Surface Deposits Present But Subsurface Not Tested
Survey Strategies: Observation
Specimens Collected: No
Specimens Observed, Not Collected: No
Artifacts Summary and Diagnostics:

No Data

Summary of Specimens Observed, Not Collected:

No Data

Current Curation Repository: No Data
Permanent Curation Repository: No Data
Field Notes: No
Field Notes Repository: No Data
Photographic Media: Digital
Survey Reports: Yes

Survey Report Information:

Green Ridge Landfill, Phase IA Cultural Resources Evaluation, Browning & Associates, LTD, 2018

Survey Report Repository: DHR
DHR Library Reference Number: No Data
Significance Statement: 2018 Browning: The site occupied the side of a flattish landform, possibly indicative of subsistence farming. The site is in an area that was historically African-American after the Civil War and may be related to Reconstruction Era subsistence farming.

Surveyor's Eligibility Recommendations: Recommended for Further Survey
Surveyor's NR Criteria Recommendations, : No Data
Surveyor's NR Criteria Considerations: No Data

Snapshot

Date Generated: June 04, 2020

Site Name: Jesse Parker
Site Classification: Terrestrial, open air
Year(s): No Data
Site Type(s): Farmstead
Other DHR ID: No Data
Temporary Designation: Site 8

Site Evaluation Status

DHR Staff: Potentially Eligible

Locational Information

USGS Quad: WHITEVILLE
County/Independent City: Cumberland (County)
Physiographic Province: Piedmont
Elevation: 315
Aspect: Facing South
Drainage: James
Slope: 2 - 6
Acreage: 2.870
Landform: Ridge Spur
Ownership Status: Private
Government Entity Name: No Data

Site Components

Component 1

Category: Domestic
Site Type: Farmstead
Cultural Affiliation: African American, Euro-American
DHR Time Period: Civil War, Reconstruction and Growth, The New Dominion, World War I to World War II
Start Year: No Data
End Year: No Data

Comments: December 2018 Browning: This structural complex corresponds with the Jesse Parker farm/plantation shown on the Cumberland County 1864 Gilmer Map. Parker owned 6 slaves in 1850.

July 2019 Rose: Visual inspection of the mapped site location revealed the collapsed remains of a frame dwelling (Structure 1), collapsed outbuilding (Structure 2), and the foundation and possible chimney base of a third structure (Structure 3). Structures 1 and 2 are clearly visible in the 1947 and 1958 aerial images of the project vicinity.

Seventy five STPs were excavated at site 44CM0141. Eighty-eight artifacts were recovered from 15 positive STPs. Finds suggest Structure 2 is the remains of a barn. Artifacts collected in the vicinity of Structure 3 suggest agricultural activities; however, the foundation and possible chimney base observed in this location during the visual inspection may indicate the presence of a tenant farmer or slave quarters.

Bibliographic Information

Bibliography:

2019 Rose, J. Craig and Lyle Browning
Phase IB Cultural Resources Investigation of the Green Ridge Property, Cumberland County, Virginia

Informant Data:

No Data

CRM Events

Event Type: DHR Staff: Potentially Eligible

DHR ID: 44CM0141
Staff Name: Roger Kirchen
Event Date: 4/30/2020
Staff Comment: 2019-0180

Event Type: Survey:Phase I

Project Staff/Notes:

Craig Rose-Principal Investigator
 Lyle Browning-Project Manager
 C. Neil Manson-Historic Researcher
 Jorge Quitana - Field Archaeologist
 Mike Johnson - Field Archaeologist
 Emery Bencini - Field Archaeologist
 Steve Rann - Field Archaeologist

Project Review File Number: No Data
Sponsoring Organization: No Data
Organization/Company: Dominion Research Group
Investigator: Craig Rose
Survey Date: 3/4/2019

Survey Description:

Phase I archaeological survey of a 1,200 acre property in Cumberland County, Virginia

Current Land Use	Date of Use	Comments
Forest	7/1/2019 12:00:00 AM	Densely overgrown yard and pasture.
Threats to Resource:		Development
Site Conditions:		Surface Deposits Present And With Subsurface Integrity
Survey Strategies:		Historic Map Projection, Observation, Subsurface Testing
Specimens Collected:		Yes
Specimens Observed, Not Collected:		No

Artifacts Summary and Diagnostics:

Ceramics
 1pearlware sherd
 Glass
 24windowpane, lime soda fragments
 12bottle/jar, automatic bottle machine (ABM) fragments
 7unidentifiedfragments
 3bottle, contact mold fragments
 1jar fragment
 1bottle/jar, lime soda fragment
 Metal
 15unidentified ferrous metal fragments
 10unidentified nails/fragments
 6wire nails/fragments
 2unidentified non-ferrous metal fragments
 1endgate rod
 1spike
 Miscellaneous
 4concrete fragments

Summary of Specimens Observed, Not Collected:

No Data

Current Curation Repository: Browning & Associates, Hartfield, VA
Permanent Curation Repository: DHR
Field Notes: Yes
Field Notes Repository: DHR
Photographic Media: Digital

Survey Reports: Yes

Survey Report Information:
2019 Rose, J. Craig and Lyle Browning
"Green Ridge, Phase IB Cultural Resources Investigation", Browning & Associates, LTD. Hartfield, Virginia.

Survey Report Repository: DHR

DHR Library Reference Number: No Data

Significance Statement:
2018 Browning: The site corresponds to the Jesse Parker plantation on the 1864 Gilmer map. The 1955 VDOT aerial shows 3 probable houses with open space for pasturage and trails leading into forest. The site survives as a late 19th to 20th century porched structure with a stone single side chimney stub. All observed nails were wire. The rear of the structure sits on stone piers. Another stone founded structure is located to the east. This structural complex appear to be the basis for the Jesse Parker farm for which there are production records, slave ownership documentation and so forth from prior to the Civil War and there are tax and census records for Reconstruction through the present that can illuminate a small farm that had the family and 6 slaves to work it.

2019 Rose: A dwelling and associated outbuildings are visible in the location of site 44CM0141 in the 1947 and 1958 aerial photographs of the project vicinity and the dwelling is listed with the name "Jesse Parker" on Gilmer's 1864 map. This site includes the remains of a collapsed frame dwelling, a collapsed barn, and stone foundation. Surface features indicate the site remains relatively undisturbed.

Surveyor's Eligibility Recommendations: Recommended Potentially Eligible

Surveyor's NR Criteria Recommendations, : D

Surveyor's NR Criteria Considerations: No Data

Event Type: Other

Project Staff/Notes:
No Data

Project Review File Number: No Data

Sponsoring Organization: No Data

Organization/Company: Browning & Associates, LTD

Investigator: Lyle Browning

Survey Date: 12/4/2018

Survey Description:
2018 Browning: Visual examination of a structural complex probably descended from Jesse Parker. Complex has very large oak trees, 1 fallen structure of late 19th century appearance but probably added to an earlier structure with a stone chimney. Also present is a stone foundation.

Current Land Use	Date of Use	Comments
Forest	12/4/2018 12:00:00 AM	2018 Browning: Site has been allowed to revert to forest with dense sapling growth amidst large old trees.

Threats to Resource: Development

Site Conditions: Surface Deposits Present And With Subsurface Integrity

Survey Strategies: Historic Map Projection, Observation

Specimens Collected: No

Specimens Observed, Not Collected: No

Artifacts Summary and Diagnostics:
No Data

Summary of Specimens Observed, Not Collected:
No Data

Current Curation Repository: No Data

Permanent Curation Repository: No Data

Field Notes: No

Field Notes Repository: No Data

Photographic Media: Digital

Survey Reports: Yes

Survey Report Information:
Green Ridge Landfill, Phase IA Cultural Resources Evaluation, Cumberland County, VA. Browning & Associates, LTD, 2018

Survey Report Repository: DHR

DHR Library Reference Number: No Data

Significance Statement:

2018 Browning: The site corresponds to the Jesse Parker plantation on the 1864 Gilmer map. The 1955 VDOT aerial shows 3 probable houses with open space for pasturage and trails leading into forest. The site survives as a late 19th to 20th century porched structure with a stone single side chimney stub. All observed nails were wire. The rear of the structure sits on stone piers. Another stone founded structure is located to the east. This structural complex appear to be the basis for the Jesse Parker farm for which there are production records, slave ownership documentation and so forth from prior to the Civil War and there are tax and census records for Reconstruction through the present that can illuminate a small farm that had the family and 6 slaves to work it.

Surveyor's Eligibility Recommendations:

Recommended for Further Survey

Surveyor's NR Criteria Recommendations, :

No Data

Surveyor's NR Criteria Considerations:

No Data

Snapshot

Date Generated: June 04, 2020

Site Name: No Data
Site Classification: Terrestrial, open air
Year(s): No Data
Site Type(s): Farmstead
Other DHR ID: No Data
Temporary Designation: 44CM00XX

Site Evaluation Status

DHR Staff: Potentially Eligible

Locational Information

USGS Quad: WHITEVILLE
County/Independent City: Cumberland (County)
Physiographic Province: Piedmont
Elevation: 350
Aspect: Facing South
Drainage: James
Slope: 0 - 2
Acreage: 1.000
Landform: Knob
Ownership Status: Private
Government Entity Name: No Data

Site Components

Component 1

Category: Domestic
Site Type: Farmstead
Cultural Affiliation: Indeterminate
DHR Time Period: Antebellum Period, Civil War, Early National Period, Reconstruction and Growth, World War I to World War II
Start Year: No Data
End Year: No Data

Comments: July 2019 Rose: The site includes the foundations of at least two structures and an associated artifact scatter that suggests an occupation dating from the early to mid 19th century. No structures are visible in this location on the 1947 and 1958 aerial photos of the project vicinity.

Twenty STPs were excavated in the area surrounding the two suspected structures. A total of eight artifacts, including whiteware, glass bottle and windowpane fragments, and nails, were recovered from the general area. Metal detection of the area between the two structures (approximately 225 feet by 100 feet) produced 514 strikes, approximately 25% were excavated. The presence of surface features and intact soil profile suggests this site retains a high degree of integrity. The assemblage recovered suggests the site includes the remains of a dwelling with an occupation possibly spanning the 18th- through the 20th- century.

Bibliographic Information

Bibliography:

2019 Rose, J. Craig and Lyle Browning
Phase IB Cultural Resources Investigation of the Green Ridge Property, Cumberland County, Virginia

Informant Data:

No Data

CRM Events

Event Type: DHR Staff: Potentially Eligible

DHR ID: 44CM0144
Staff Name: Roger Kirchen
Event Date: 4/30/2020
Staff Comment: 2019-0180

Event Type: Survey:Phase I

Project Staff/Notes:
Craig Rose-Principal Investigator
Lyle Browning-Project Manager
C. Neil Manson-Historic Researcher
Jorge Quitana - Field Archaeologist
Mike Johnson - Field Archaeologist
Emery Bencini - Field Archaeologist
Steve Rann - Field Archaeologist

Project Review File Number: No Data
Sponsoring Organization: No Data
Organization/Company: Dominion Research Group
Investigator: Craig Rose
Survey Date: 3/4/2019

Survey Description:
Phase I archaeological survey of a 1,200 acre property in Cumberland County, Virginia

Current Land Use	Date of Use	Comments
Forest	7/1/2019 12:00:00 AM	Planted pine

Threats to Resource: Development
Site Conditions: Intact Cultural Level, Surface Deposits Present And With Subsurface Integrity
Survey Strategies: Metal Detection, Observation, Subsurface Testing
Specimens Collected: Yes
Specimens Observed, Not Collected: No

Artifacts Summary and Diagnostics:
Ceramics
3stoneware sherds
2whiteware sherds
1creamware sherd
1pearlware sherd
Glass
10windowpane, lime soda fragments
9jar, semi-automatic bottle machine fragments
5bottle/jar, automatic bottle machine (ABM) fragments
2bottle/jar, semi-automatic bottle machine fragments
1bottle/jar, lime soda fragment
1bottle/jar, unidentified fragment
1unidentified, melted fragment
1bottle, unidentified fragment
1bottle, automatic bottle machine (ABM) fragment
1windowpane, unidentified fragment
1bottle/jar, clear magnesium fragment
Metal
80wire nails/fragments
28unidentified ferrous metal fragments
19cast iron fragments
9horseshoe/horseshoe fragments
9unidentified nails/fragments
7strap hinges
5strap iron fragments
4sheet metal fragments
3plowshares
3cultivator shanks
3iron hoops

2steamer trunk corner guards
2wire fragments
2unidentified non-ferrous metal fragments
2cut nails
2spikes
2axe heads
1bolt
1stirrup fragment
1iron hook
1brass shotgun shell base
1hinge fragment
1non-ferrous metal tag
1wrought nail
1boot spur
1scissor fragment
1flat iron base
1pliers fragment
1door/gate latch
1wing nut
Miscellaneous
2brick fragments
2bone fragments

Summary of Specimens Observed, Not Collected:

No Data

Current Curation Repository: Browning & Associates, Hartfield, VA

Permanent Curation Repository: DHR

Field Notes: Yes

Field Notes Repository: DHR

Photographic Media: Digital

Survey Reports: Yes

Survey Report Information:

2019 Rose, J. Craig and Lyle Browning
"Green Ridge, Phase IB Cultural Resources Investigation", Browning & Associates, LTD. Hartfield, Virginia.

Survey Report Repository: DHR

DHR Library Reference Number: No Data

Significance Statement: Visual inspection of site 44CM00XX revealed the remains of two separate structures. Artifacts were recovered from a plow zone and an undisturbed fill layer at Site 44CM00XX during the STP investigation and metal detector survey. Analysis of the site assemblage suggests it includes the remains of a dwelling or domestic farmstead with an occupation possibly spanning the 18th- through the 20th- century. The soil profile encountered in the STPs nearest to the structures indicate a high degree of integrity.

Surveyor's Eligibility Recommendations: Recommended Potentially Eligible

Surveyor's NR Criteria Recommendations, : D

Surveyor's NR Criteria Considerations: No Data

Snapshot

Date Generated: June 04, 2020

Site Name: No Data
Site Classification: Terrestrial, open air
Year(s): No Data
Site Type(s): Farmstead
Other DHR ID: No Data
Temporary Designation: 44CM06XX

Site Evaluation Status

DHR Staff: Potentially Eligible

Locational Information

USGS Quad: TRENHOLM
County/Independent City: Cumberland (County)
Physiographic Province: Piedmont
Elevation: 345
Aspect: Facing West
Drainage: James
Slope: 2 - 6
Acreage: 0.680
Landform: Ridge Spur
Ownership Status: Private
Government Entity Name: No Data

Site Components

Component 1

Category: Domestic
Site Type: Farmstead
Cultural Affiliation: Indeterminate
DHR Time Period: Antebellum Period, Civil War, Colony to Nation, Early National Period, Reconstruction and Growth, World War I to World War II
Start Year: No Data
End Year: No Data
Comments: July 2019 Rose: This site was identified based on the presence of a pearlware sherd observed on the ground surface. Visual inspection and metal detection of adjacent areas exposed during an exploratory cemetery identification survey identified two additional pearlware sherds, a decorative glass bead, cut nails, and a wrought nail. No other evidence of the site was observed during visual inspection of the surrounding area, and no structures are visible in this location on the 1947 or 1958 aerial images.

Bibliographic Information

Bibliography:
No Data
Informant Data:
No Data

CRM Events

Event Type: DHR Staff: Potentially Eligible

DHR ID: 44CM0145
Staff Name: Roger Kirchen
Event Date: 4/30/2020
Staff Comment: 2019-0180

Event Type: Survey:Phase I

Project Staff/Notes:

Craig Rose-Principal Investigator
Lyle Browning-Project Manager
C. Neil Manson-Historic Researcher
Jorge Quitana - Field Archaeologist
Mike Johnson - Field Archaeologist
Emery Bencini - Field Archaeologist
Steve Rann - Field Archaeologist

Project Review File Number: No Data
Sponsoring Organization: No Data
Organization/Company: Dominion Research Group
Investigator: Craig Rose
Survey Date: 3/4/2019

Survey Description:

Phase I archaeological survey of a 1,200 acre property in Cumberland County, Virginia

Current Land Use	Date of Use	Comments
Forest	7/1/2019 12:00:00 AM	Planted pine

Threats to Resource: Development
Site Conditions: Surface Deposits Present But Subsurface Not Tested
Survey Strategies: Metal Detection, Observation
Specimens Collected: Yes
Specimens Observed, Not Collected: Yes

Artifacts Summary and Diagnostics:

Ceramics
3pearlware sherds
Glass
1crenulated glass bead
Metal
10cut nails/fragments
2unidentified ferrous metal fragments
1wrought nail
1cast iron fragment
1horseshoe

Summary of Specimens Observed, Not Collected:

1 stoneware

Current Curation Repository: Browning & Associates, Hartfield, VA
Permanent Curation Repository: DHR
Field Notes: Yes
Field Notes Repository: DHR
Photographic Media: Digital
Survey Reports: Yes
Survey Report Information:
2019 Rose, J. Craig and Lyle Browning
"Green Ridge, Phase IB Cultural Resources Investigation", Browning & Associates, LTD. Hartfield, Virginia.
Survey Report Repository: DHR
DHR Library Reference Number: No Data

Significance Statement:

This site was identified based on a pearlware sherd discovered in the trench backfill following the cemetery identification survey. The functional variety of the assemblage and temporally diagnostic artifacts recovered suggest this site includes the remains of a dwelling, possibly dating from the early nineteenth century. Additional excavations are needed to adequately define the horizontal extent and integrity of sub-surface deposits.

Surveyor's Eligibility Recommendations:

Recommended for Further Survey

Surveyor's NR Criteria Recommendations, :

D

Surveyor's NR Criteria Considerations:

No Data

Property Information

Property Names

Name	Explanation	Name
Historic		Melrose

Property Evaluation Status

Not Evaluated

Property Addresses

Current - Route 654 (Pinegrove Road)

County/Independent City(s): Cumberland (County)

Incorporated Town(s): No Data

Zip Code(s): No Data

Magisterial District(s): No Data

Tax Parcel(s): No Data

USGS Quad(s): No Data

Additional Property Information

Architecture Setting: No Data

Acreage: No Data

Site Description:

No Data

Surveyor Assessment:

No Data

Surveyor Recommendation: No Data

Primary Resource Information

Resource Category: Domestic

Resource Type: Single Dwelling

NR Resource Type: Building

Historic District Status: No Data

Date of Construction: Ca 1850

Date Source: Site Visit

Historic Time Period: Antebellum Period (1830 - 1860)

Historic Context(s): Domestic, Subsistence/Agriculture

Other ID Number: No Data

Architectural Style: Greek Revival

Form: No Data

Number of Stories: 2.0

Condition: Excellent

Interior Plan: Central Passage, Double Pile

Threats to Resource: None Known

Architectural Description:

This imposing brick dwelling is designed in a Greek Revival style and features a hipped roof and two interior chimneys. A one-story end wall porch with square Doric columns extends across the front elevation. The window and door surrounds, typical of the Greek Revival style, have pedimented caps. In addition, the front door is flanked by sidelights with a transom above, all below a pedimented surround.

Interior Description: The interior consists of a wide, central stair hall flanked by two front parlors; the two rear rooms are separated from the front of the house by a wood "screen" divider in the central passage. The stair is built against the side wall and has vertical board siding and turned balusters. The divider screen has Greek Revival detailing with a pedimented top and panelled side walls. Modern louvred screens fill in the opening. The original 4"-side floor boards are found in the front parlor, while narrower floorboards are in the central hall and dining room. Rather heavy mantels with an oversized egg and dart motif are found in almost all of the rooms.

Secondary Resource Information

Secondary Resource #1

Resource Category: Domestic
Resource Type: Kitchen
Date of Construction: 1850Ca
Date Source: Site Visit
Historic Time Period: Antebellum Period (1830 - 1860)
Historic Context(s): Domestic, Subsistence/Agriculture
Architectural Style: Other
Form: *No Data*
Condition: Fair
Threats to Resource: None Known

Architectural Description:

Clad in weatherboard, this summer kitchen features a hipped roof and an end chimney.

Interior Description: The interior consists of two rooms separated by an interior wall. The larger room opens directly off of the exterior door, while the smaller room is reached through the large room. A stove flue is located in the larger room.

Interior Plan: One-room
Number of Stories: 1

Secondary Resource #2

Resource Category: Agriculture/Subsistence
Resource Type: Barn
Date of Construction: 1920Ca
Date Source: Site Visit
Historic Time Period: World War I to World War II (1917 - 1945)
Historic Context(s): Domestic, Subsistence/Agriculture
Architectural Style: Other
Form: *No Data*
Condition: Good
Threats to Resource: Vacant

Architectural Description:

This barn is a typical gambrel roof barn of frame construction from the ca. 1920 period. It is clad with vertical board walls and has a standing seam metal roof covering. A ventilator projects from the top of the roof.

Number of Stories: 2

Secondary Resource #3

Resource Category: Domestic
Resource Type: Single Dwelling
Date of Construction: 1890Ca
Date Source: Site Visit
Historic Time Period: Reconstruction and Growth (1866 - 1916)
Historic Context(s): Domestic, Subsistence/Agriculture
Architectural Style: Other
Form: *No Data*
Condition: Good
Threats to Resource: None Known

Architectural Description:

This is a two-story, three-bay frame dwelling with interior end chimneys and a side facing gable roof. A one-story, one-bay porch is located on the central bay of the front elevation.

Number of Stories: 2

Secondary Resource #4

Resource Category: Domestic
Resource Type: Garage
Date of Construction: Ca
Date Source: *No Data*
Historic Time Period: World War I to World War II (1917 - 1945)
Historic Context(s): Domestic, Subsistence/Agriculture
Architectural Style: *No Data*
Form: *No Data*
Condition: *No Data*
Threats to Resource: *No Data*
Architectural Description:
No Data
Number of Stories: *No Data*

Secondary Resource #5

Resource Category: DSS Legacy
Resource Type: Shed
Date of Construction: Ca
Date Source: *No Data*
Historic Time Period: World War I to World War II (1917 - 1945)
Historic Context(s): Domestic, Subsistence/Agriculture
Architectural Style: *No Data*
Form: *No Data*
Condition: *No Data*
Threats to Resource: *No Data*
Architectural Description:
No Data
Number of Stories: *No Data*

Secondary Resource #6

Resource Category: DSS Legacy
Resource Type: Shed
Date of Construction: Ca
Date Source: *No Data*
Historic Time Period: World War I to World War II (1917 - 1945)
Historic Context(s): Domestic, Subsistence/Agriculture
Architectural Style: *No Data*
Form: *No Data*
Condition: *No Data*
Threats to Resource: *No Data*
Architectural Description:
No Data
Number of Stories: *No Data*

Secondary Resource #7

Resource Category: DSS Legacy
Resource Type: Shed
Date of Construction: Ca
Date Source: *No Data*
Historic Time Period: World War I to World War II (1917 - 1945)
Historic Context(s): Domestic, Subsistence/Agriculture
Architectural Style: *No Data*
Form: *No Data*

Condition: *No Data*
Threats to Resource: *No Data*
Architectural Description:
No Data
Number of Stories: *No Data*

Secondary Resource #8

Resource Category: DSS Legacy
Resource Type: Shed
Date of Construction: Ca
Date Source: *No Data*
Historic Time Period: World War I to World War II (1917 - 1945)
Historic Context(s): Domestic, Subsistence/Agriculture
Architectural Style: *No Data*
Form: *No Data*
Condition: *No Data*
Threats to Resource: *No Data*
Architectural Description:
No Data
Number of Stories: *No Data*

Historic District Information

Historic District Name: *No Data*
Local Historic District Name: *No Data*
Historic District Significance: *No Data*

CRM Events

Event Type: Survey:Phase II/Intensive

Project Review File Number: *No Data*
Investigator: Tracerics
Organization/Company: Unknown (DSS)
Photographic Media: *No Data*
Survey Date: 4/1/1994
Dhr Library Report Number: *No Data*
Project Staff/Notes:
No Data

Project Bibliographic Information:
Record Type: DHR File Data
Bibliographic Notes: Survey, 1973

Event Type: Survey:Phase I/Reconnaissance

Project Review File Number: *No Data*
Investigator: Cary, Mary C.
Organization/Company: Unknown (DSS)
Photographic Media: *No Data*
Survey Date: 7/18/1973
Dhr Library Report Number: *No Data*
Project Staff/Notes:

No Data

Project Bibliographic Information:

Record Type: DHR File Data
Bibliographic Notes: Survey, 1973

Event Type: Survey:Phase I/Reconnaissance

Project Review File Number: *No Data*
Investigator: WPA of Virginia
Organization/Company: Unknown (DSS)
Photographic Media: *No Data*
Survey Date: 10/15/1936
Dhr Library Report Number: *No Data*

Project Staff/Notes:

WPA survey

Project Bibliographic Information:

Record Type: DHR File Data
Bibliographic Notes: Survey, 1973

Bibliographic Information

Bibliography:

No Data

Property Notes:

Name: Mrs. Lucy Martin

Property Information		
Property Names		Property Evaluation Status DHR Staff: Not Eligible
Name Explanation Function/Location	Name House, 192 Miller Lane	
Property Addresses Current - 192 Miller Lane		
County/Independent City(s):	Cumberland (County)	
Incorporated Town(s):	<i>No Data</i>	
Zip Code(s):	23040	
Magisterial District(s):	<i>No Data</i>	
Tax Parcel(s):	45-A-2-A	
USGS Quad(s):	TRENHOLM	

Additional Property Information	
Architecture Setting:	Rural
Acreage:	1
Site Description: 2019 Browning: The property is a small modular home built on 4x4 posts. It has a series of vehicles, parts and other items stored in the side yard. The yard has grass but no ornamentals.	
Surveyor Assessment: 2019 Browning: The property is a modular home, built in 1988 and is well maintained. It has a wrap-around deck. Otherwise it is of a common type of manufactured home designed for low-income families to afford comfortable housing. It has no outstanding architectural characteristics.	
Surveyor Recommendation:	Recommended Not Eligible
Ownership	
Ownership Category Private	Ownership Entity <i>No Data</i>

Primary Resource Information	
Resource Category:	Domestic
Resource Type:	Single Dwelling
NR Resource Type:	Building
Historic District Status:	<i>No Data</i>
Date of Construction:	1988
Date Source:	Local Records
Historic Time Period:	The New Dominion (1946 - 1991)
Historic Context(s):	Domestic, Settlement Patterns
Other ID Number:	<i>No Data</i>
Architectural Style:	Other
Form:	<i>No Data</i>
Number of Stories:	1.0
Condition:	Good
Interior Plan:	Other
Threats to Resource:	None Known
Architectural Description: 2019 Browning: The 1 story house has synthetic siding resembling saw log boards, what appear to be casement windows of 2/6 and sash windows of 4/4 on the front with a single door. The end has french doors. The deck wraps around the house from the front door where a stair accesses the deck and around the end and the back of the building. The crawlspace is covered by latticework.	

Exterior Components

Component	Component Type	Material	Material Treatment
Roof	Side Gable	Shingle	No Data
Foundation	Post-in-ground	Wood	No Data
Porch	Wrap-Around	Wood	Square

Secondary Resource Information

Historic District Information

Historic District Name: No Data
Local Historic District Name: No Data
Historic District Significance: No Data

CRM Events

Event Type: DHR Staff: Not Eligible

DHR ID: 024-5112
Staff Name: Laura Lavernia
Event Date: 3/30/2020
Staff Comment:
2019-0180

Event Type: Survey:Phase I/Reconnaissance

Project Review File Number: No Data
Investigator: Lyle Browning
Organization/Company: Browning & Associates, LTD
Photographic Media: Digital
Survey Date: 8/7/2019
Dhr Library Report Number: No Data

Project Staff/Notes:
No Data

Project Bibliographic Information:

2019, Browning & Rose. Phase I Intensive Cultural Resources Report, Green Ridge Landfill, Cumberland County, VA. Report to be filed with DHR.

Bibliographic Information

Bibliography:

No Data

Property Notes:

2019 Browning: The property is partially woods and partially yard. The property faced onto Miller Lane.

Property Information

Property Names

Name Explanation	Name
Function/Location	House, 200 Miller Lane

Property Evaluation Status

DHR Staff: Not Eligible

Property Addresses

Current - 202 Miller Lane

County/Independent City(s): Cumberland (County)

Incorporated Town(s): *No Data*

Zip Code(s): 23040

Magisterial District(s): *No Data*

Tax Parcel(s): 45-A-2-G

USGS Quad(s): TRENHOLM

Additional Property Information

Architecture Setting: Rural

Acreage: 2

Site Description:

2019 Browning: The site faces onto Miller Lane and is wooded with the house tucked to the side of the driveway such that the house is mostly invisible from the road. It has small "off the shelf" sheds in the side and back yards. A hogwire fence encloses the back yard. No decorative plantings of any sort were noted in the yard.

Surveyor Assessment:

2019 Browning: This house was built in 2007 and is of a contemporary modern style. It is stick built, semi-modular in appearance over a cinder block foundation and has an asphalt shingle roof. It has no distinguishing architectural characteristics.

Surveyor Recommendation: Recommended Not Eligible

Ownership

Ownership Category	Ownership Entity
Private	<i>No Data</i>

Primary Resource Information

Resource Category: Domestic

Resource Type: Single Dwelling

NR Resource Type: Building

Historic District Status: *No Data*

Date of Construction: 2007

Date Source: Local Records

Historic Time Period: Post Cold War (1992 - Present)

Historic Context(s): Domestic

Other ID Number: *No Data*

Architectural Style: No discernible style

Form: Pre-fabricated/Manufactured Home

Number of Stories: 1.0

Condition: Excellent

Interior Plan: Other

Threats to Resource: None Known

Architectural Description:

2019 Browning: This 2007 house has a cinderblock foundation with a stick built German siding 1 story contemporary modern home that has asphalt shingle roofing. 12/12 windows are present.

Exterior Components

Component	Component Type	Material	Material Treatment
Roof	Side Gable	Asphalt	<i>No Data</i>
Structural System and Exterior Treatment	Wood Frame	Composite	Siding
Foundation	English/Raised	Concrete	Block

Secondary Resource Information

Historic District Information

Historic District Name: *No Data*
Local Historic District Name: *No Data*
Historic District Significance: *No Data*

CRM Events

Event Type: DHR Staff: Not Eligible

DHR ID: 024-5113
Staff Name: Laura Lavernia
Event Date: 3/30/2020
Staff Comment:
2019-0180

Event Type: Survey:Phase I/Reconnaissance

Project Review File Number: *No Data*
Investigator: Lyle Browning
Organization/Company: Browning & Associates, LTD
Photographic Media: Digital
Survey Date: 8/7/2019
Dhr Library Report Number: *No Data*
Project Staff/Notes:
No Data
Project Bibliographic Information:
2019, Browning & Rose. Phase I Intensive Cultural Resources Report, Green Ridge Landfill, Cumberland County, VA. Report to be filed with DHR.

Bibliographic Information

Bibliography:
No Data
Property Notes:
No Data

Property Information

Property Names

Name Explanation	Name
Function/Location	House, 300 Miller Lane

Property Evaluation Status

DHR Staff: Not Eligible

Property Addresses

Current - 300 Miller Lane

County/Independent City(s): Cumberland (County)

Incorporated Town(s): *No Data*

Zip Code(s): 23040

Magisterial District(s): *No Data*

Tax Parcel(s): 38-A-6

USGS Quad(s): TRENHOLM

Additional Property Information

Architecture Setting: Rural

Acreage: 19.28

Site Description:

2019 Browning: The site has an open front lawn with a well casing, then mature trees surrounding the house with a driveway to the south. The house faces onto Miller Lane. A small shed is situated to the rear of the house. Small decorative shrubs are present, as well as potted plants.

Surveyor Assessment:

This contemporary modern house was built in 1990. It has German siding with asphalt shingles over a cinderblock foundation. There are no outstanding architectural features about the house or the surroundings. The aim of the owners appears to be to live in seclusion.

Surveyor Recommendation: Recommended Not Eligible

Ownership

Ownership Category	Ownership Entity
Private	<i>No Data</i>

Primary Resource Information

Resource Category: Domestic

Resource Type: Single Dwelling

NR Resource Type: Building

Historic District Status: *No Data*

Date of Construction: 1990

Date Source: Local Records

Historic Time Period: Post Cold War (1992 - Present)

Historic Context(s): Domestic

Other ID Number: *No Data*

Architectural Style: Other

Form: *No Data*

Number of Stories: 1.5

Condition: Excellent

Interior Plan: Other

Threats to Resource: None Known

Architectural Description:

2019 Browning: The 1.5 story house has an asphalt shingle roof, German composite siding, and a cinderblock foundation. Windows are in groups of two flanking an entrance door. A porch fronts the house. It continues the roof line of the house, has dimensional lumber square posts and sits on concrete block pillars. A single window is located on the end of the house on the top floor.

Exterior Components

Component	Component Type	Material	Material Treatment
Roof	Side Gable	Asphalt	No Data
Structural System and Exterior Treatment	Wood Frame	Composite	Siding
Foundation	Piers	Concrete	Uncoursed
Porch	1-Story Full-Width	Wood	Square

Secondary Resource Information

Historic District Information

Historic District Name: No Data
Local Historic District Name: No Data
Historic District Significance: No Data

CRM Events

Event Type: DHR Staff: Not Eligible

DHR ID: 024-5115
Staff Name: Laura Lavernia
Event Date: 3/30/2020
Staff Comment:
2019-0180

Event Type: Survey:Phase I/Reconnaissance

Project Review File Number: No Data
Investigator: Lyle Browning
Organization/Company: Browning & Associates, LTD
Photographic Media: Digital
Survey Date: 8/7/2019
Dhr Library Report Number: No Data

Project Staff/Notes:
No Data

Project Bibliographic Information:

2019, Browning & Rose. Phase I Intensive Cultural Resources Report, Green Ridge Landfill, Cumberland County, VA. Report to be filed with DHR.

Bibliographic Information

Bibliography:

No Data

Property Notes:

No Data

Property Information

Property Names

Name Explanation	Name
Function/Location	House, 220 Miller Lane

Property Evaluation Status

DHR Staff: Not Eligible

Property Addresses

Current - 220 Miller Lane

County/Independent City(s): Cumberland (County)

Incorporated Town(s): *No Data*

Zip Code(s): 23040

Magisterial District(s): *No Data*

Tax Parcel(s): 38-A-6

USGS Quad(s): TRENHOLM

Additional Property Information

Architecture Setting: Rural

Acreage: 2

Site Description:

2019 Browning: This house faces onto Miller Lane with a small front yard with decorative plantings around the house and by the road and entranceway. The side yard and back yard are quite small. The remainder of the lot is wooded.

Surveyor Assessment:

2019 Browning: This 1 story modular home has no distinguishing architectural characteristics and is endlessly replicated in the county and region.

Surveyor Recommendation: Recommended Not Eligible

Ownership

Ownership Category	Ownership Entity
Private	<i>No Data</i>

Primary Resource Information

Resource Category: Domestic

Resource Type: Single Dwelling

NR Resource Type: Building

Historic District Status: *No Data*

Date of Construction: Ca 1990

Date Source: Local Records

Historic Time Period: Post Cold War (1992 - Present)

Historic Context(s): Domestic

Other ID Number: *No Data*

Architectural Style: Other

Form: Rectangular

Number of Stories: 1.0

Condition: Good

Interior Plan: Other

Threats to Resource: None Known

Architectural Description:

2019 Browning: This 1 story modular home has an asphalt shingle roof, composite German siding and sits on a cinderblock foundation.

Exterior Components

Component	Component Type	Material	Material Treatment
Roof	Side Gable	Asphalt	<i>No Data</i>

Structural System and Exterior Treatment	Wood Frame	Asphalt	Siding
Foundation	English/Raised	Concrete	Block

Secondary Resource Information

Historic District Information

Historic District Name: *No Data*
Local Historic District Name: *No Data*
Historic District Significance: *No Data*

CRM Events

Event Type: DHR Staff: Not Eligible

DHR ID: 024-5117
Staff Name: Laura Lavernia
Event Date: 3/30/2020
Staff Comment
2019-0180

Event Type: Survey:Phase I/Reconnaissance

Project Review File Number: *No Data*
Investigator: Lyle Browning
Organization/Company: Browning & Associates, LTD
Photographic Media: Digital
Survey Date: 8/7/2019
Dhr Library Report Number: *No Data*
Project Staff/Notes:
No Data

Project Bibliographic Information:
2019, Browning & Rose. Phase I Intensive Cultural Resources Report, Green Ridge Landfill, Cumberland County, VA. Report to be filed with DHR.

Bibliographic Information

Bibliography:
No Data
Property Notes:
No Data

Property Information

Property Names

Name Explanation	Name
Function/Location	House, 206 Miller Lane

Property Evaluation Status
DHR Staff: Not Eligible

Property Addresses

Current - 206 Miller Lane

County/Independent City(s): Cumberland (County)

Incorporated Town(s): *No Data*

Zip Code(s): 23040

Magisterial District(s): *No Data*

Tax Parcel(s): 45-A-2-G

USGS Quad(s): TRENHOLM

Additional Property Information

Architecture Setting: Rural

Acreage: 5.4

Site Description:

2019 Browning: The house sits on a small upraised landform with little grass in front of or surrounding the structure.

Surveyor Assessment:

2019 Browning: This 1961 conventional modern structure is of one story, with additions to the north in the form of an enclosed porch and to the east in the form of a lean-to running the length of the house. To the south is a carport. The house has no architectural character.

Surveyor Recommendation: Recommended Not Eligible

Ownership

Ownership Category	Ownership Entity
Private	<i>No Data</i>

Primary Resource Information

Resource Category: Domestic

Resource Type: Single Dwelling

NR Resource Type: Building

Historic District Status: *No Data*

Date of Construction: 1961

Date Source: Local Records

Historic Time Period: Post Cold War (1992 - Present)

Historic Context(s): Domestic

Other ID Number: *No Data*

Architectural Style: No discernible style

Form: Rectangular

Number of Stories: 1.0

Condition: Poor

Interior Plan: Center Hall

Threats to Resource: None Known

Architectural Description:

2019 Browning: This is a center passage house with one room to either side. It has 1 story. A small porch has been enclosed on the north side, an addition runs the length of the rear of the house and a carport has been added.

Exterior Components

Component	Component Type	Material	Material Treatment
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Roof Structural System and Exterior Treatment Foundation	Side Gable Wood Frame Solid/Continuous	Asphalt Aluminum Concrete	<i>No Data</i> Siding Block
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Secondary Resource Information

Historic District Information

Historic District Name: *No Data*
Local Historic District Name: *No Data*
Historic District Significance: *No Data*

CRM Events

Event Type: DHR Staff: Not Eligible

DHR ID: 024-5118
Staff Name: Laura Lavernia
Event Date: 3/30/2020
Staff Comment:
2019-0180

Event Type: Survey:Phase I/Reconnaissance

Project Review File Number: *No Data*
Investigator: Lyle Browning
Organization/Company: Browning & Associates, LTD
Photographic Media: Digital
Survey Date: 8/7/2019
Dhr Library Report Number: *No Data*
Project Staff/Notes:
No Data

Project Bibliographic Information:
2019, Browning & Rose. Phase I Intensive Cultural Resources Report, Green Ridge Landfill, Cumberland County, VA. Report to be filed with DHR.

Bibliographic Information

Bibliography:

No Data

Property Notes:

No Data

Property Information		
Property Names		Property Evaluation Status DHR Staff: Not Eligible
Name Explanation Function/Location	Name House, 208 Miller Lane	
Property Addresses Current - 208 Miller Lane		
County/Independent City(s):	Cumberland (County)	
Incorporated Town(s):	<i>No Data</i>	
Zip Code(s):	23040	
Magisterial District(s):	<i>No Data</i>	
Tax Parcel(s):	45-A-2-H	
USGS Quad(s):	TRENHOLM	

Additional Property Information	
Architecture Setting:	Rural
Acreage:	2
Site Description: 2019 Browning: The singlewide mobile home is located in an open, grassed space and set at the back of it. Decorative plantings are visible.	
Surveyor Assessment: 2019 Browning: 2019 Browning: The singlewide mobile home is a common survivor of a common type designed for lower income families to achieve home ownership at a reasonable price. It has no outstanding architectural characteristics.	
Surveyor Recommendation:	Recommended Not Eligible
Ownership	
Ownership Category Private	Ownership Entity <i>No Data</i>

Primary Resource Information			
Resource Category:	Domestic		
Resource Type:	Mobile Home/Trailer		
NR Resource Type:	Building		
Historic District Status:	<i>No Data</i>		
Date of Construction:	2007		
Date Source:	Local Records		
Historic Time Period:	Post Cold War (1992 - Present)		
Historic Context(s):	Domestic, Settlement Patterns		
Other ID Number:	<i>No Data</i>		
Architectural Style:	No discernible style		
Form:	<i>No Data</i>		
Number of Stories:	1.0		
Condition:	Fair		
Interior Plan:	Other		
Threats to Resource:	None Known		
Architectural Description: 2019 Browning: The home has 1 entrance door with a stair and landing on the exterior. It has 4 irregularly space 6/6 windows.			
Exterior Components			
Component Roof	Component Type Side Gable	Material Asphalt	Material Treatment <i>No Data</i>

Secondary Resource Information

Historic District Information

Historic District Name: *No Data*
Local Historic District Name: *No Data*
Historic District Significance: *No Data*

CRM Events

Event Type: DHR Staff: Not Eligible

DHR ID: 024-5119
Staff Name: Laura Lavernia
Event Date: 3/30/2020
Staff Comment
2019-0180

Event Type: Survey:Phase I/Reconnaissance

Project Review File Number: *No Data*
Investigator: Lyle Browning
Organization/Company: Browning & Associates, LTD
Photographic Media: Digital
Survey Date: 8/7/2019
Dhr Library Report Number: *No Data*

Project Staff/Notes:
No Data

Project Bibliographic Information:

2019, Browning & Rose. Phase I Intensive Cultural Resources Report, Green Ridge Landfill, Cumberland County, VA. Report to be filed with DHR.

Bibliographic Information

Bibliography:

No Data

Property Notes:

2019 Browning: The mobile home faces onto Miller Lane and is behind and to the side of another road fronting property.

X. APPENDICES

X. Appendices

Section 10.1 Client and Consultant Contact Directory - The following includes contact information for the various consultants and professionals who have worked to compile reports included within this permit.

Client and Consultant Contact Directory

Client: Green Ridge Recycling and Disposal Facility
 12230 Deer Grove Road
 Midlothian, VA 23112
 c/o Mr. Jerry Cifor
 Phone: (802)-379-1575 – Email: jerry.cifor@myfairpoint.net

Consultant	Contact
Browning & Associates, LTD 138 Scoggins Creek Trail Hartfield, VA 23071	Mr. Lyle E. Browning, RPA Phone: (804)-379-1666 Email: lebrowning@att.net
Draper Aden Associates 1030 Wilmer Avenue, Suite 100 Richmond, VA 23227	Ms. Lynn Klappich, CSI, CCCA WRE Program Manager Phone: (540)-230-7419 Email: lklappich@daa.com Mr. Ernie Hoch Environmental Program Manager Phone: (540)-537-0404 Email: ehoch@daa.com
Koontz Bryant Johnson Williams 11901 Old Stage Road Chester, VA 23836	Mr. Brent Johnson, PE Vice President Phone: (804)541-1436 Email: bjohnson@kbjwgroup.com
RES 6575 West Loop South, Suite 300 Bellaire, Texas 77401	Mr. Rick Atkinson Senior Project Manager Phone: (804)-729-8989 Email: ratkinson@res.us
Woods Rogers PLC Riverfront Plaza, West Tower 901 East Byrd Street, Suite 1550 Richmond, VA 23219	Mr. William H. Shewmake Office: (804)-343-5035 Cell: (804)-241-0453 Email: wshewmake@woodsrogers.com
Mangum Economics 4201 Dominion Boulevard, Suite 114 Glen Allen, VA 23060	Mr. David Zorn, Ph.D. Economist Phone: (804)-346-8446 Email: mangumeconomics.com

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Section 10.2 Summary of Adjoining Property Owners – The following chart includes all parcels that are adjacent to any portion of the associated project area along with the parcel owner and address information.

Table 10.2 - Property Owners Adjacent to Project Site***This information was obtained and verified via Cumberland County GIS.***

GPIN#	Owners Names	Mailing Address	City, State	Zip Code
38-A-2	PARKER, CHARLES LESTER, ET ALS	11 RITA DRIVE	MOUNT SINAI, NY	11766
38-A-6-A	GREEN, LINDA K., TRUSTEE	264 MILLER LANE	CUMBERLAND, VA	23040
38-A-6	TERRY, JAMES	300 MILLER LANE	CUMBERLAND, VA	23040
45-1-16-A	MANAGE THIS, LLC	5825 CARTERSVILLE ROAD	POWHATAN, VA	23139
45-1-15	B&Q PROPERTIES, LLC	2701 PINERIDGE LANE	POWHATAN, VA	23139
45-1-34	CWV LAND ACQUISITIONS II, LLC	4 ENTERPRISE AVENUE	CLIFTON PARK, NY	12065
45-1-36-A	CROWDER, ROY H.	2379 MOSBY LANE	POWHATAN, VA	23139
45-1-38	GREEN, LARRY S. & SHARON R.	2365 MOSBY ROAD	POWHATAN, VA	23139
45-1-37	BELCH, ROBERT G.	2377 MOSBY LANE	POWHATAN, VA	23139
45-1-35	CWV LAND ACQUISITIONS II, LLC	4 ENTERPRISE AVENUE	CLIFTON PARK, NY	12065
45-1-36	MORTON, ROBERT KERRY	2369 MOSBY LANE	POWHATAN, VA	23139
45-1-32	GATES, JOSEPHINE E.	12600 OLD BUCKINGHAM ROAD	MIDLOTHIAN, VA	23113
45-1-39	PALMORE, ELLIS M. LUMBER, INC.	2575 BALLSVILLE ROAD	POWHATAN, VA	23139
45-2-3-C	BOOKER, ELOUISE M, ET ALS	2503 VINEYARD LANE	CROFTON, MD	21114
45-2-3-D	CLARK, DAVID T. & ELIZABETH K.	62 MILLER LANE	CUMBERLAND, VA	23040
45-2-3-B	CLARK, DAVID T., JR.	PO BOX 744	POWHATAN, VA	23139
45-2-3-E	CLARK, DAVID T.	62 MILLER LANE	CUMBERLAND, VA	23040
022-1-26A	LEVIE, LEWIS RICHIE	2370 Mosby Road	POWHATAN, VA	23139
44-A-52	BISE, JACKSON D.,JR. & JONATHAN D.	1828 BOYER RD	POWHATAN, VA	23139
44-A-15	OULIE, KEITH M.	PO BOX 51	CUMBERLAND, VA	23040
44-A-16	GREGORY, ROOSEVELT	64 FRENCHS STORE ROAD	CUMBERLAND, VA	23040
44-A-35-A	JENKINS, TONI N.	30 LIBERTY LANE	CUMBERLAND, VA	23040
44-A-37	CWV LAND ACQUISITION, LLC	4 ENTERPRISE AVENUE	CLIFTON PARK, NY	12065
44-A-12	MARABLE, GEORGE c/o Adrieene D. Grist	531 MAIN STREET #411	NEW YORK CITY, NY	10044
44-A-39	BISE, JACKSON D.,JR. & JONATHAN D.	1828 BOYER RD	POWHATAN, VA	23139
45-A-11	PILLAI, SIVANAND SUBRAMANIAN &	11416 ABBOTS CROSS LANE	GLEN ALLEN, VA	23059
44-A-25	SPROUSE, HUBBARD A. & BARBARA A.	68 PINEGROVE ROAD	CUMBERLAND, VA	23040
44-A-31	SPROUSE, HUBBARD A. & BARBARA A.	68 PINEGROVE ROAD	CUMBERLAND, VA	23040
44-A-24	SPROUSE, HUBBARD A. & BARBARA A.	68 PINEGROVE ROAD	CUMBERLAND, VA	23040
44-A-22-A	CWV LAND ACQUISITION, LLC	4 ENTERPRISE AVENUE	CLIFTON PARK, NY	12065
44-A-23	CWV LAND ACQUISITION, LLC	4 ENTERPRISE AVENUE	CLIFTON PARK, NY	12065
45-2-1-A	CLARK, DAVID T. & ELIZABETH K.	62 MILLER LANE	CUMBERLAND, VA	23040

45-2-1-A1	CLARK, DAVID T. & ELIZABETH K.	62 MILLER LANE	CUMBERLAND, VA	23040
45-2-2-A	WICK, JOHN H., III	302 VIRGINIA AVENUE	RICHMOND, VA	23226
45-2-1-A2	CLARK, DAVID T. & ELIZABETH	62 MILLER LANE	CUMBERLAND, VA	23040
45-A-8-B	HARVELL, JAMES CHRISTIAN	RR5 BOX 1882	COALGATE, OK	74538
45-A-8-A	SCALES, JEFFREY C.	1359 CARTERSVILLE ROAD	CARTERSVILLE, VA	23027
45-A-8-A1	HOBSON, JESSE	PO BOX 352	CUMBERLAND, VA	23040
45-A-6	JAMES, CORA	5 ALDER LANE	CUMBERLAND, VA	23040
45-A-4-A	GUNNARSSON, RAGNAR	57 ADLER LANE	CUMBERLAND, VA	23040
44-A-18	SCOTT, HOWARD ESTATE c/o Erlene Scott Barrett	1124 PARLIAMENT LAKE DRIVE	COLUMBIA, SC	29223
45-A-2-A	GILLS, STEVE A.	192 MILLER LANE	CUMBERLAND, VA	23040
45-A-2-G3	CASHION, BRUCE	21701 SAPPONY ROAD	MOSELEY, VA	23120
45-A-2-D	CWV LAND ACQUISITIONS, LLC	4 ENTERPRISE AVENUE	CLIFTON PARK, NY	12065
45-A-2-G	GILES, MICHAEL L., II	202 MILLER LANE	CUMBERLAND, VA	23040
37-A-68	JEFFERSON, LEONA, ET ALS c/o Valerie Murphy	112 FAIRWAYS CRESCENT	CARMEL, NY	10512
37-A-63	MARTIN, BLAKE AUBRE & DEIDRE D.	448 PINEGROVE ROAD	CARTERSVILLE, VA	23027
37-A-70	AGEE, SUNNY MARTIN & MARTIN, EDWARD	3679 ELLISVILLE DRIVE	LOUISA, VA	23093
31-A-1	AMERICAN TIMBERLAND LLC	1180 PEACHTREE STREET, NE, Suite 1810	ATLANTA, GA	30309
38-A-6-B	GREEN, RICHARD C., JR. & PEMBERTON,	246 MILLER LANE	CUMBERLAND, VA	23040
38-A-6-D	CEMETERY GILLIAM	NOT AVAILABLE	CUMBERLAND, VA	23040
45-2-3-E1	CLARK, DAVID T., JR.	62 MILLER LANE	CUMBERLAND, VA	23040
45-1-16	MANAGE THIS, LLC	5825 CARTERSVILLE ROAD	POWHATAN, VA	23139
45-1-30-A	GREEN, LARRY S. & SHARON R.	2365 MOSBY ROAD	POWHATAN, VA	23139
45-A-9	CLARK, DAVID THOMAS, TRUSTEE	62 MILLER LANE	CUMBERLAND, VA	23040