

Fact Sheets

Projects BR9101 through BR9902

Bull Run Watershed Structural Projects

Projects BR9101 through BR9902

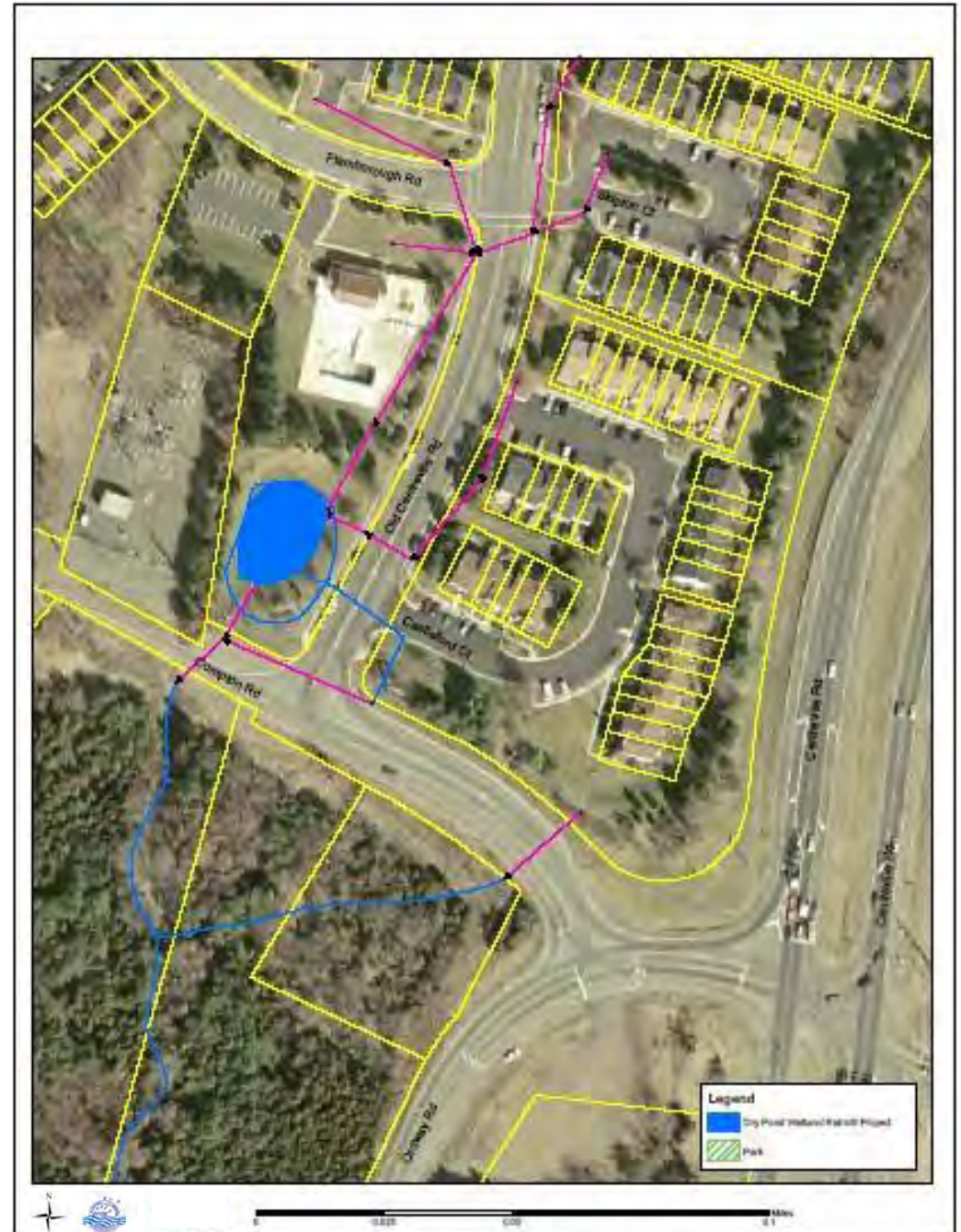
Project ID:	BR9101
Project Type:	Dry Pond Retrofit – Low Priority
Location:	Hovingham Court PIN - 0653 03 J1 Croton Commons Bull Run East
Description:	Modify existing dry pond to improve nutrient removal by adding wetland features. Evaluate and modify outlet structure if appropriate. Public maintenance

Project Cost Estimate				
Item	Qty	Units	Unit Cost	Total Cost
Dry Pond Retrofit	1	Pond		\$30,138
Base Construction Cost				\$30,138
Mobilization (5%)				\$1,507
Subtotal 1				\$31,645
Contingency (25%)				\$7,911
Subtotal 2				\$39,556
Engineering design, surveys, land acquisition, utility locations, and permits (45%)			\$17,800	
Total				\$57,356
Estimated Project Cost				\$58,000



Project ID:	BR9102
Project Type:	Dry Pond Retrofit
Location:	Old Centreville Road & Compton Road PIN - 0653 03 B Crofton Commons Bull Run East
Description:	Modify existing dry pond to improve nutrient removal by adding wetland features. Evaluate and modify outlet structure if appropriate. Public maintenance

Project Cost Estimate				
Item	Qty	Units	Unit Cost	Total Cost
Dry Pond Retrofit	1	Pond		\$36,420
Base Construction Cost				\$36,420
Mobilization (5%)				\$1,821
Subtotal 1				\$38,241
Contingency (25%)				\$9,560
Subtotal 2				\$47,801
Engineering design, surveys, land acquisition, utility locations, and permits (45%)				\$21,511
Total				\$69,312
Estimated Project Cost				\$70,000



Project ID:	BR9103
Project Type:	Dry Pond Retrofit – Low Priority
Location:	Compton Road & Confederate Ridge Lane Regional Pond C49 PIN - 0653 05 A Confederate Ridge Bull Run East
Description:	Modify existing dry pond to improve nutrient removal by adding wetland features. Evaluate and modify outlet structure if appropriate. Public maintenance

Project Cost Estimate				
Item	Qty	Units	Unit Cost	Total Cost
Dry Pond Retrofit	1	Pond		\$116,412
Base Construction Cost				\$116,412
Mobilization (5%)				\$5,821
Subtotal 1				\$122,233
Contingency (25%)				\$30,558
Subtotal 2				\$152,791
Engineering design, surveys, land acquisition, utility locations, and permits (45%)				\$68,756
Total				\$221,547
Estimated Project Cost				\$222,000



Project ID	BR9104
Project Type:	Dry Pond Retrofit
Location:	Flamborough Road near Jenny Leigh Court. PIN - 0653 06 B1 Clifton Townes Bull Run East
Description:	Modify existing dry pond to improve nutrient removal by adding wetland features. Evaluate and modify outlet structure if appropriate. Public maintenance

Project Cost Estimate				
Item	Qty	Units	Unit Cost	Total Cost
Dry Pond Retrofit	1	Pond		\$40,290
Base Construction Cost				\$40,290
Mobilization (5%)				\$2,015
Subtotal 1				\$42,305
Contingency (25%)				\$10,576
Subtotal 2				\$52,881
Engineering design, surveys, land acquisition, utility locations, and permits (45%)				\$23,796
Total				\$76,677
Estimated Project Cost				\$77,000



Project ID:	BR9105
Project Type:	Dry Pond Retrofit
Location:	Cedar Loch Court PIN - 0653 12 E Compton Village Bull Run East
Description:	Modify existing dry pond to improve nutrient removal by adding wetland features. Evaluate and modify outlet structure if appropriate. Public maintenance

Project Cost Estimate				
Item	Qty	Units	Unit Cost	Total Cost
Dry Pond Retrofit	1	Pond		\$66,795
Base Construction Cost				\$66,795
Mobilization (5%)				\$3,340
Subtotal 1				\$70,135
Contingency (25%)				\$17,534
Subtotal 2				\$87,668
Engineering design, surveys, land acquisition, utility locations, and permits (45%)				\$39,451
Total				\$127,119
Estimated Project Cost				\$128,000



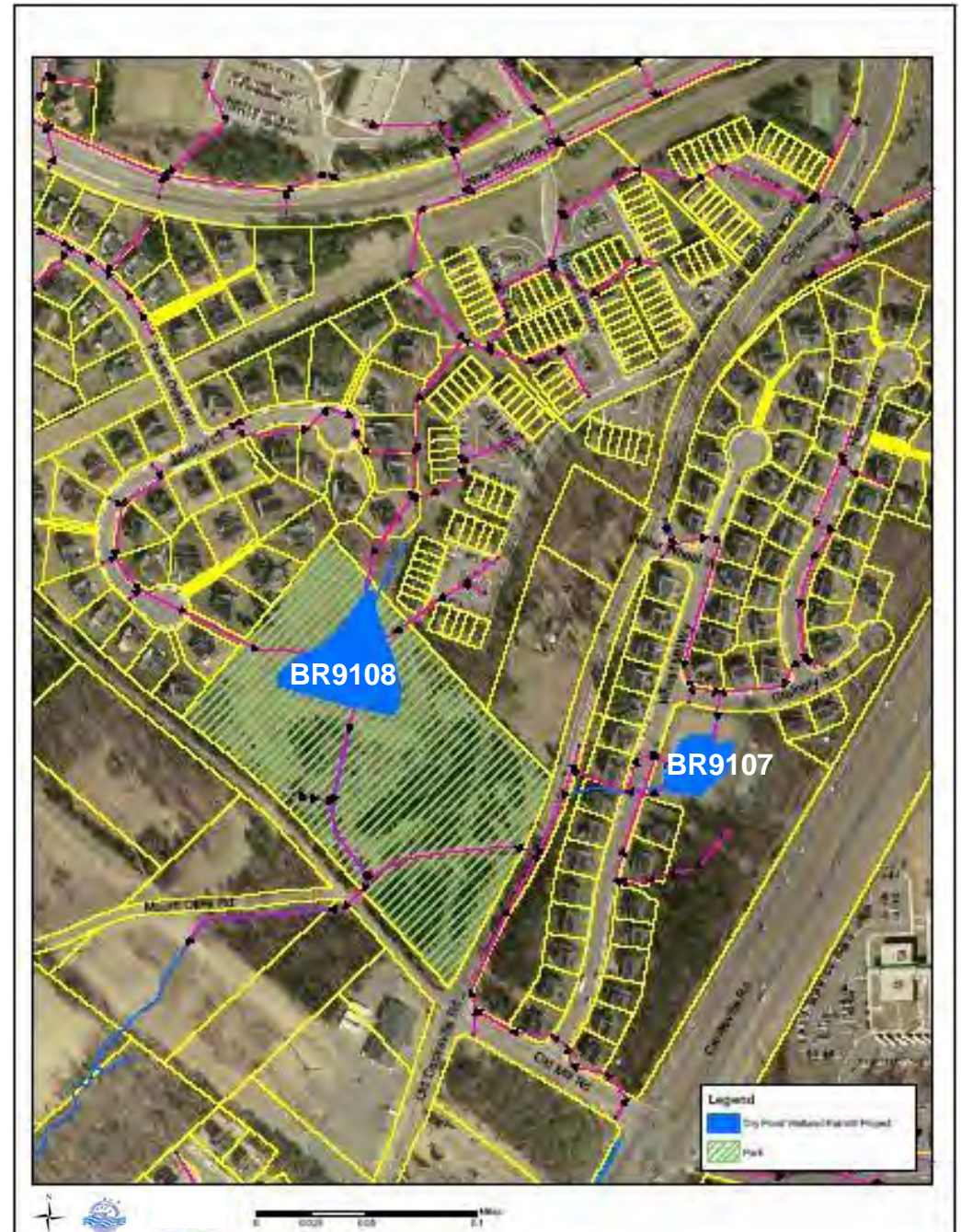
Project ID:	BR9106
Project Type:	Dry Pond Retrofit
Location:	Tracy Schar Lane PIN - 0653 09 C Willoughby Woods Bull Run East
Description:	Modify existing dry pond to improve nutrient removal by adding wetland features. Evaluate and modify outlet structure if appropriate. Public maintenance

Project Cost Estimate				
Item	Qty	Units	Unit Cost	Total Cost
Dry Pond Retrofit	1	Pond		\$36,600
Base Construction Cost				\$36,600
Mobilization (5%)				\$1,830
Subtotal 1				\$38,430
Contingency (25%)				\$9,608
Subtotal 2				\$48,038
Engineering design, surveys, land acquisition, utility locations, and permits (45%)				\$21,617
Total				\$69,654
Estimated Project Cost				\$70,000



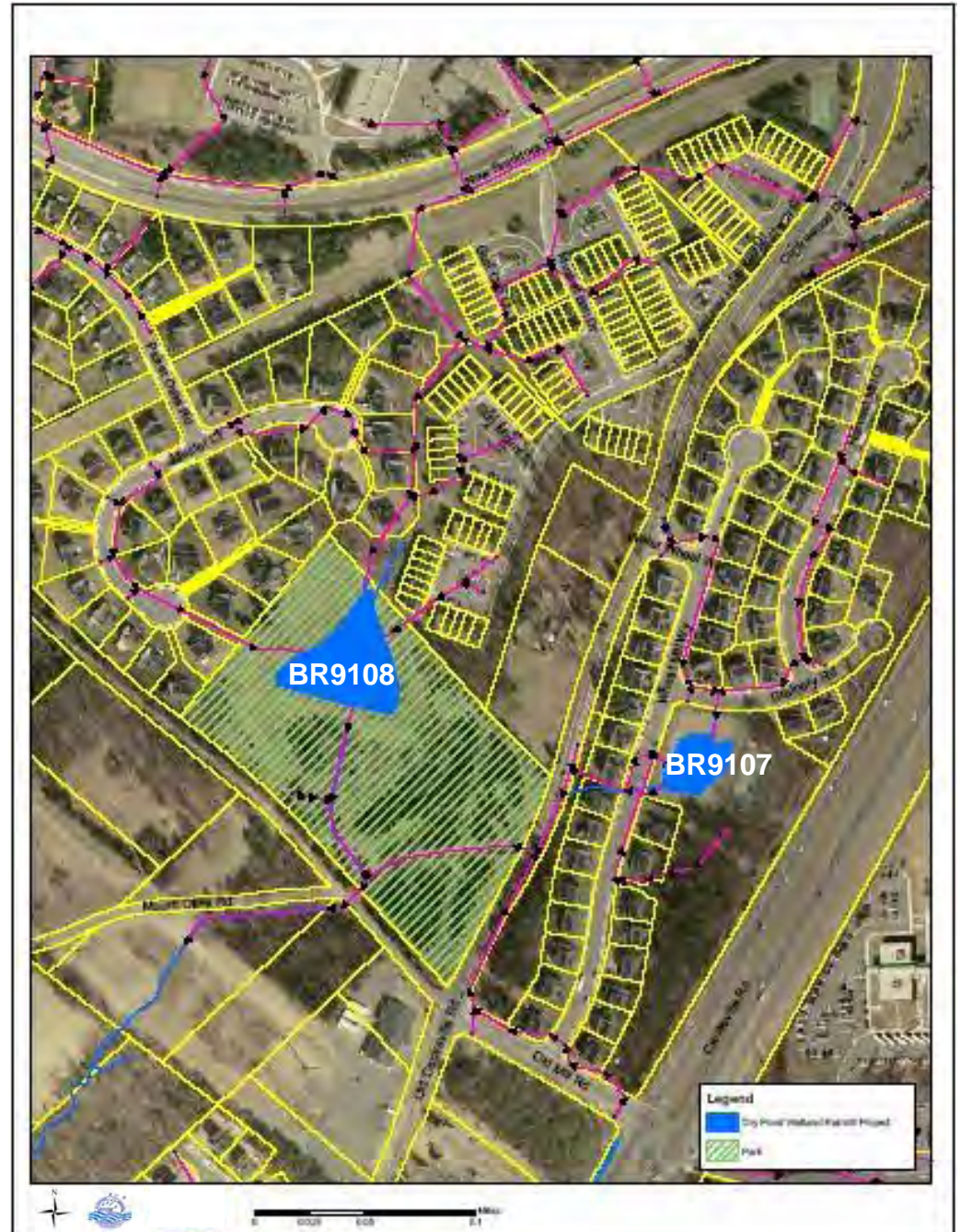
Project ID:	BR9107
Project Type:	Dry Pond Retrofit
Location:	Wheat Mill Way & Grainery Road PIN - 0651 09 B Old Mill Section 1 Bull Run East
Description:	Modify existing dry pond to improve nutrient removal by adding wetland features. Evaluate and modify outlet structure if appropriate. Public maintenance

Project Cost Estimate				
Item	Qty	Units	Unit Cost	Total Cost
Dry Pond Retrofit	1	Pond		\$44,520
Base Construction Cost				\$44,520
Mobilization (5%)				\$2,226
Subtotal 1				\$46,746
Contingency (25%)				\$11,687
Subtotal 2				\$58,433
Engineering design, surveys, land acquisition, utility locations, and permits (45%)				\$26,295
Total				\$84,727
Estimated Project Cost				\$85,000



Project ID:	BR9108
Project Type:	Dry Pond Retrofit
Location:	Sharps Drive PIN - 0651 05 G1 Centre Ridge Bull Run East
Description:	Modify existing dry pond to improve nutrient removal by adding wetland features. Evaluate and modify outlet structure if appropriate. Public maintenance

Project Cost Estimate				
Item	Qty	Units	Unit Cost	Total Cost
Dry Pond Retrofit	1	Pond		\$69,873
Base Construction Cost				\$69,873
Mobilization (5%)				\$3,494
Subtotal 1				\$73,367
Contingency (25%)				\$18,342
Subtotal 2				\$91,708
Engineering design, surveys, land acquisition, utility locations, and permits (45%)				\$41,269
Total				\$132,977
Estimated Project Cost				\$133,000



Project ID:	BR9109
Project Type:	Dry Pond Retrofit – Low Priority
Location:	Smiths Terrace near Beckford Way PIN - 0641 06 J1 Westport Bull Run West
Description:	Modify existing dry pond to improve nutrient removal by adding wetland features. Evaluate and modify outlet structure if appropriate. Public maintenance

Project Cost Estimate				
Item	Qty	Units	Unit Cost	Total Cost
Dry Pond Retrofit	1	Pond		\$38,400
Base Construction Cost				\$38,400
Mobilization (5%)				\$1,920
Subtotal 1				\$40,320
Contingency (25%)				\$10,080
Subtotal 2				\$50,400
Engineering design, surveys, land acquisition, utility locations, and permits (45%)				\$22,680
Total				\$73,080
Estimated Project Cost				\$74,000



Project ID:	BR9201
Project Type:	Stream Restoration
Location:	Bull Run Tributary – Below quarry Tax Maps – 64-1, 64-3, 63-4. Bull Run West watershed.
Description:	Bank stability scores of 3 and 4 with significant buffer impacts. SCI of 2.2. Located in private property. Stream is impacted by lack of buffers and potentially from changes in hydrology produced by quarry. Total project length is 4,420 linear feet, not all requires restoration.

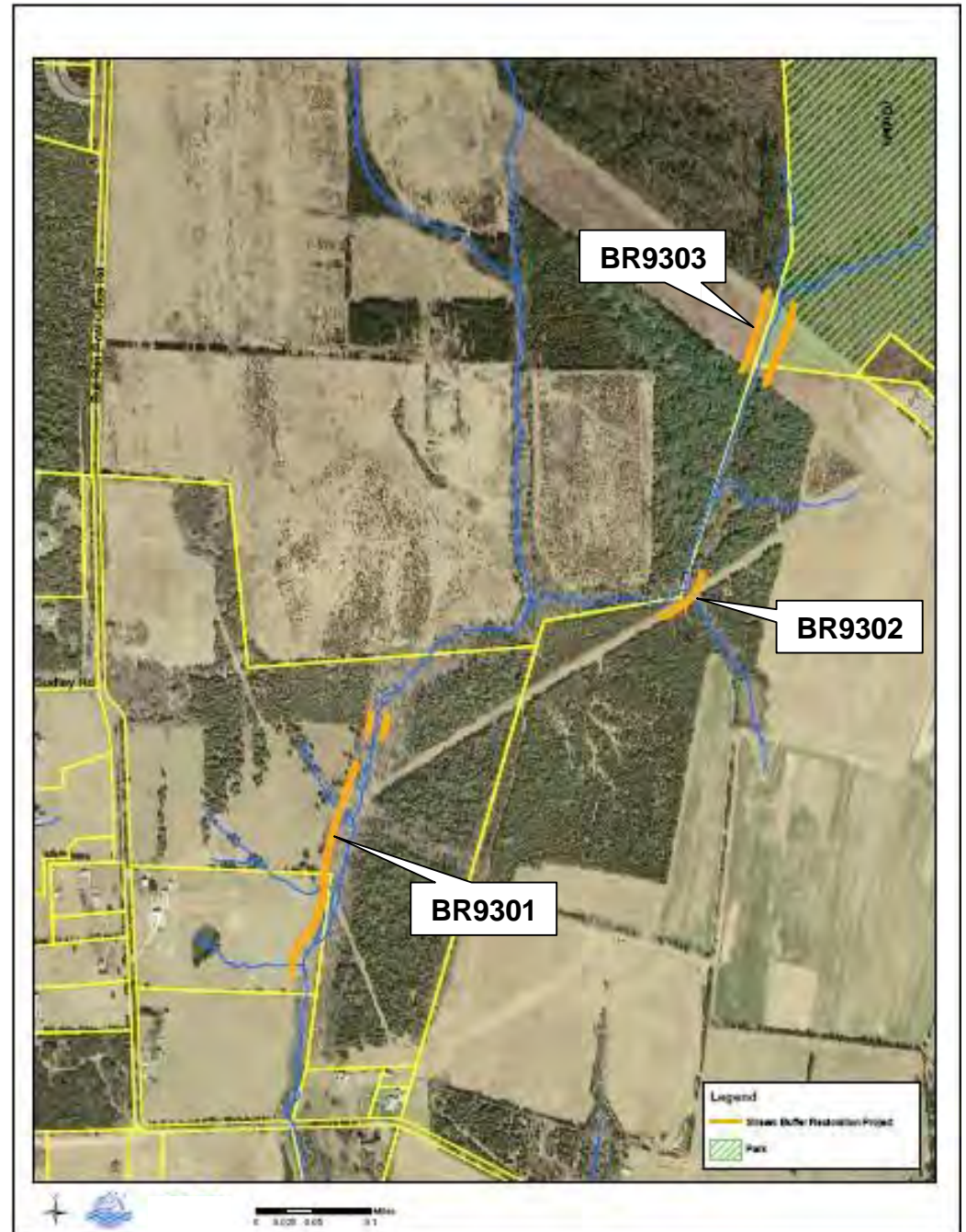
Item	Qty	Units	Unit Cost	Total Cost
Length	4,420	Feet	\$190.43	\$841,700
Base Construction Cost				\$841,700
Mobilization (5%)				\$42,085
Subtotal 1				\$883,785
Contingency (25%)				\$220,946
Subtotal 2				\$1,104,731
Engineering design, surveys, land acquisition, utility locations, and permits (45%)				\$497,129
Total				\$1,601,860
Estimated Project Cost				\$1,602,000



Project ID:	BR9301
Project Type:	Buffer Restoration
Location:	Private Property in unnamed tributary in Bull Run West watershed. Tax Map – 52-2
Description:	Impacted by fields, mowing and clearing.

Project Cost Estimate				
Item	Qty *	Units	Unit Cost	Total Cost
Buffer Restoration	1,270	Feet	\$12.50	\$15,875
Base Construction Cost				\$15,875
Mobilization (5%)				\$794
Subtotal 1				\$16,669
Contingency (25%)				\$4,167
Subtotal 2				\$20,836
Engineering design, surveys, land acquisition, utility locations, and permits (45%)				\$9,376
Total				\$30,212
Estimated Project Cost				\$31,000

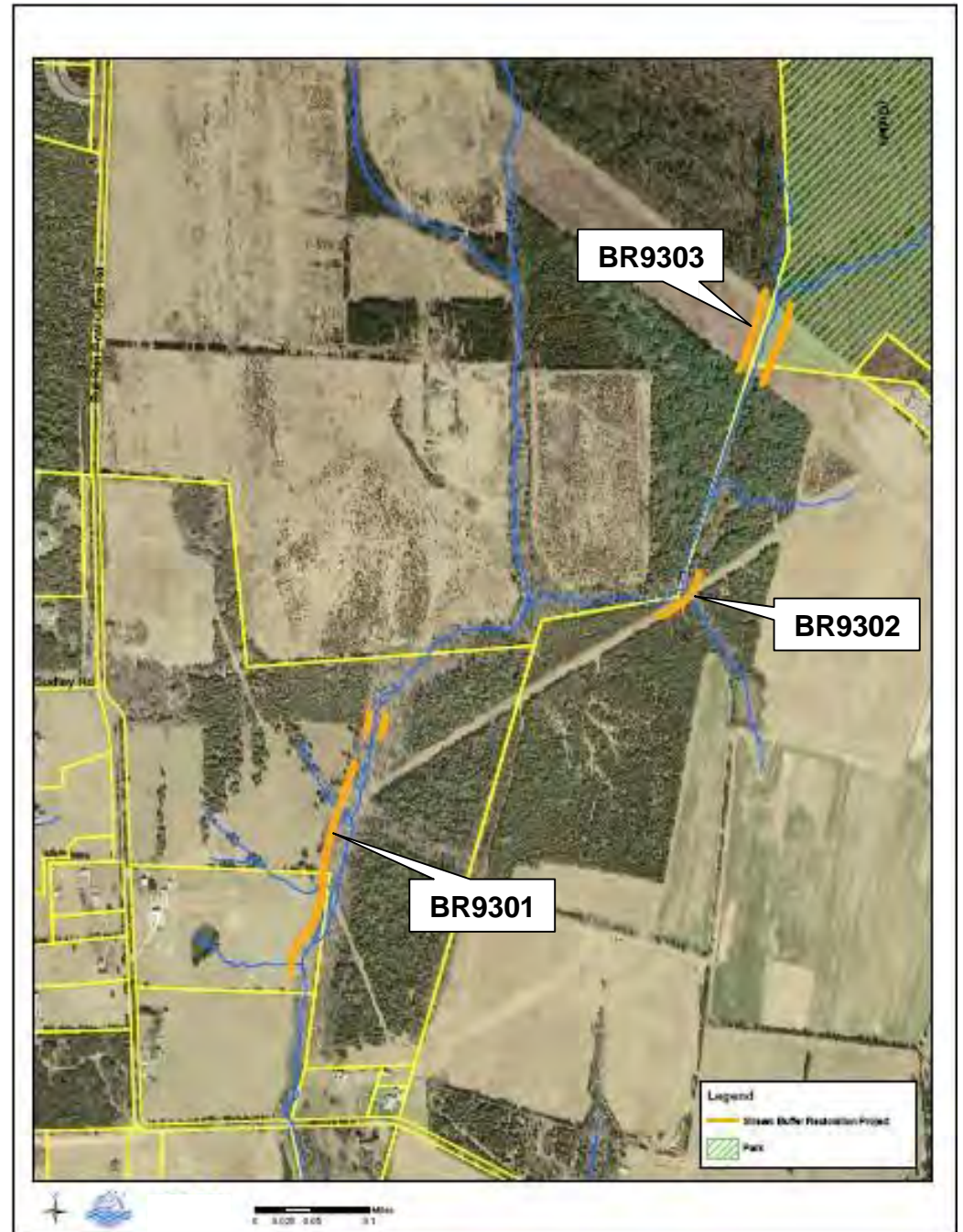
* - Cumulative length of impacted stream buffer within project limits.



Project ID:	BR9302
Project Type:	Buffer Restoration
Location:	Private Property in unnamed tributary in Bull Run West watershed Tax Map – 52-2
Description:	Impacted by utility right of way mowing and clearing.

Project Cost Estimate				
Item	Qty *	Units	Unit Cost	Total Cost
Buffer Restoration	310	Feet	\$12.50	\$3,875
Base Construction Cost				\$3,875
Mobilization (5%)				\$194
Subtotal 1				\$4,069
Contingency (25%)				\$1,017
Subtotal 2				\$5,086
Engineering design, surveys, land acquisition, utility locations, and permits (45%)				\$2,289
Total				\$7,375
Estimated Project Cost				\$8,000

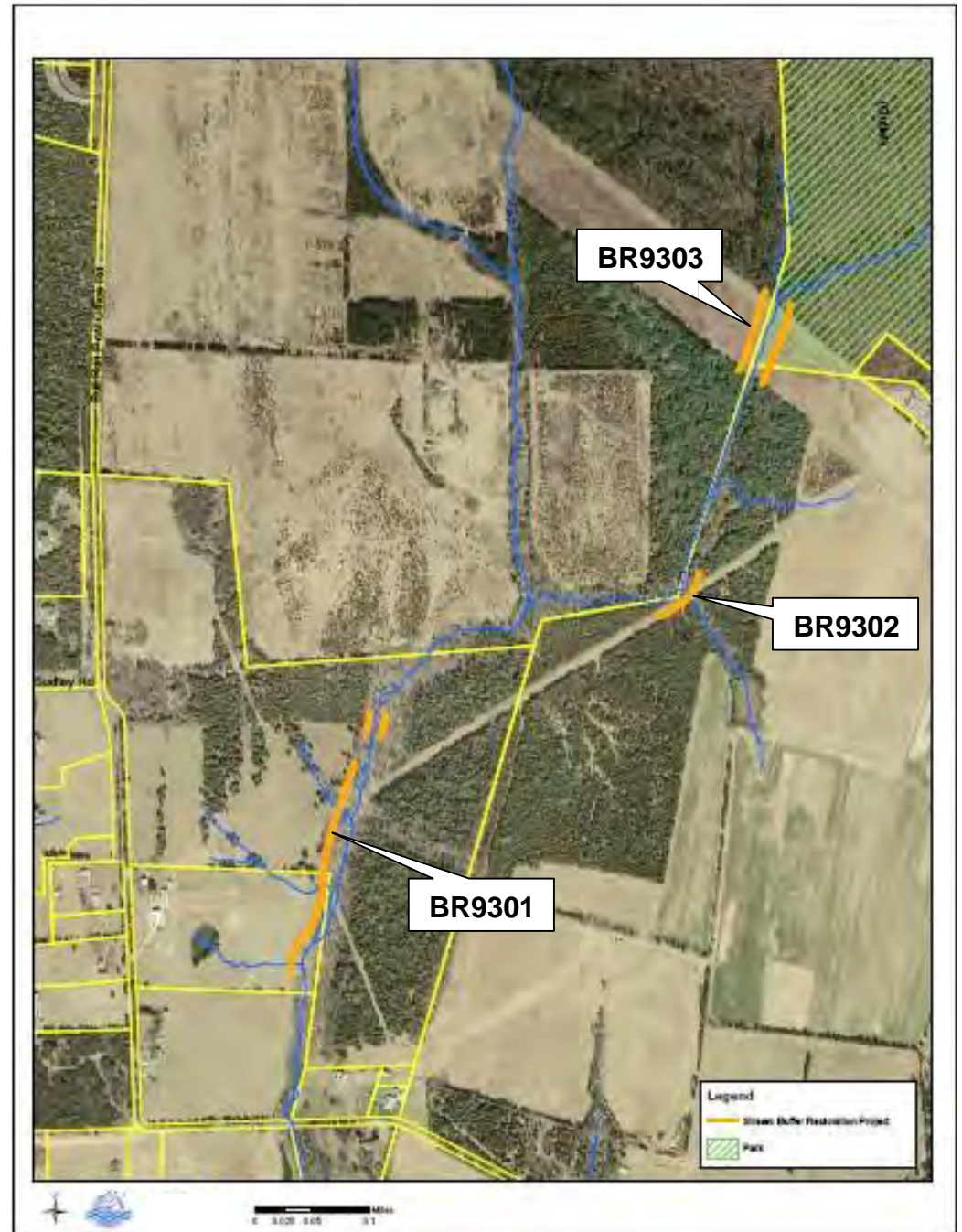
* - Cumulative length of impacted stream buffer within project limits.



Project ID:	BR9303
Project Type:	Buffer Restoration
Location:	Private Property in unnamed tributary in Bull Run West watershed Tax Map – 52-2
Description:	Impacted by power line right of way mowing and clearing.

Project Cost Estimate				
Item	Qty *	Units	Unit Cost	Total Cost
Buffer Restoration	800	Feet	\$12.50	\$10,000
Base Construction Cost				\$10,000
Mobilization (5%)				\$500
Subtotal 1				\$10,500
Contingency (25%)				\$2,625
Subtotal 2				\$13,125
Engineering design, surveys, land acquisition, utility locations, and permits (45%)				\$5,906
Total				\$19,031
Estimated Project Cost				\$20,000

* - Cumulative length of impacted stream buffer within project limits.



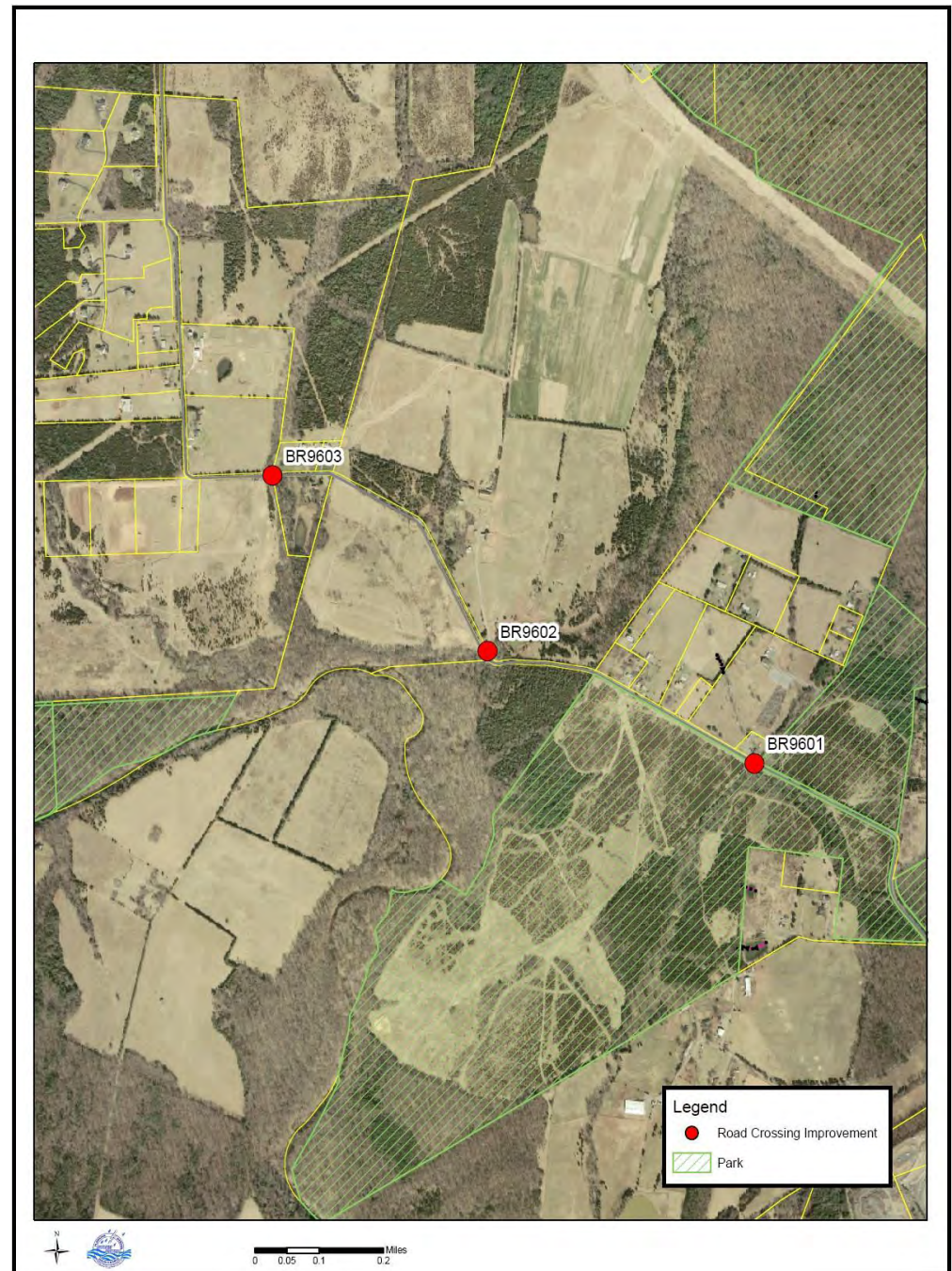
Project ID:	BR9304
Project Type:	Buffer Restoration
Location:	Private Property within Fairfax National Estates in unnamed tributary in Bull Run West watershed Tax Map 52-1 Subdivision – Cedar Crest Estates
Description:	Impacted by fields and new development.

Project Cost Estimate				
Item	Qty *	Units	Unit Cost	Total Cost
Buffer Restoration	220	Feet	\$12.50	\$2,750
Base Construction Cost				\$2,750
Mobilization (5%)				\$138
Subtotal 1				\$2,888
Contingency (25%)				\$722
Subtotal 2				\$3,609
Engineering design, surveys, land acquisition, utility locations, and permits (45%)				\$1,624
Total				\$5,234
Estimated Project Cost				\$6,000

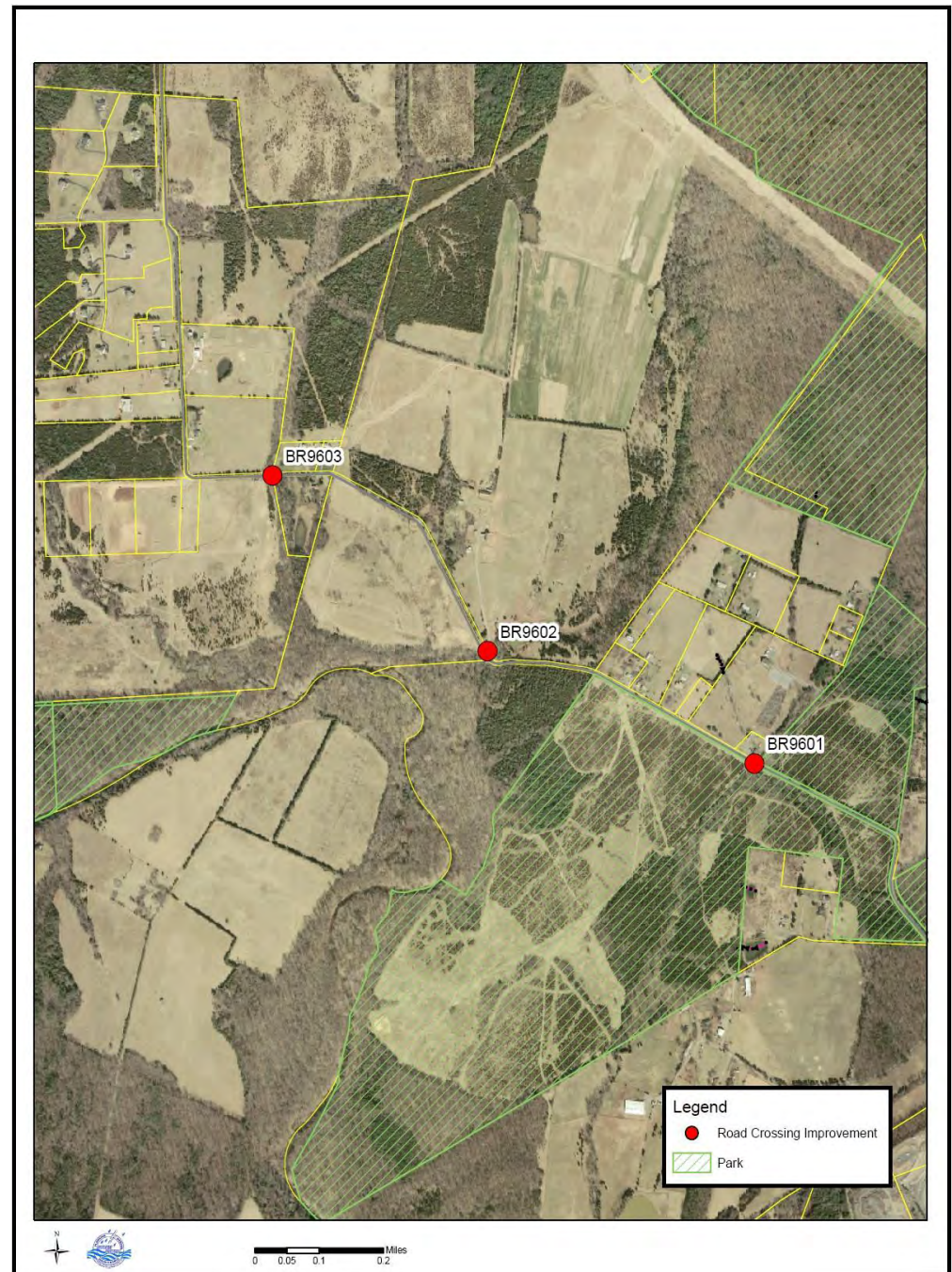
- Cumulative length of impacted stream buffer within project limits.



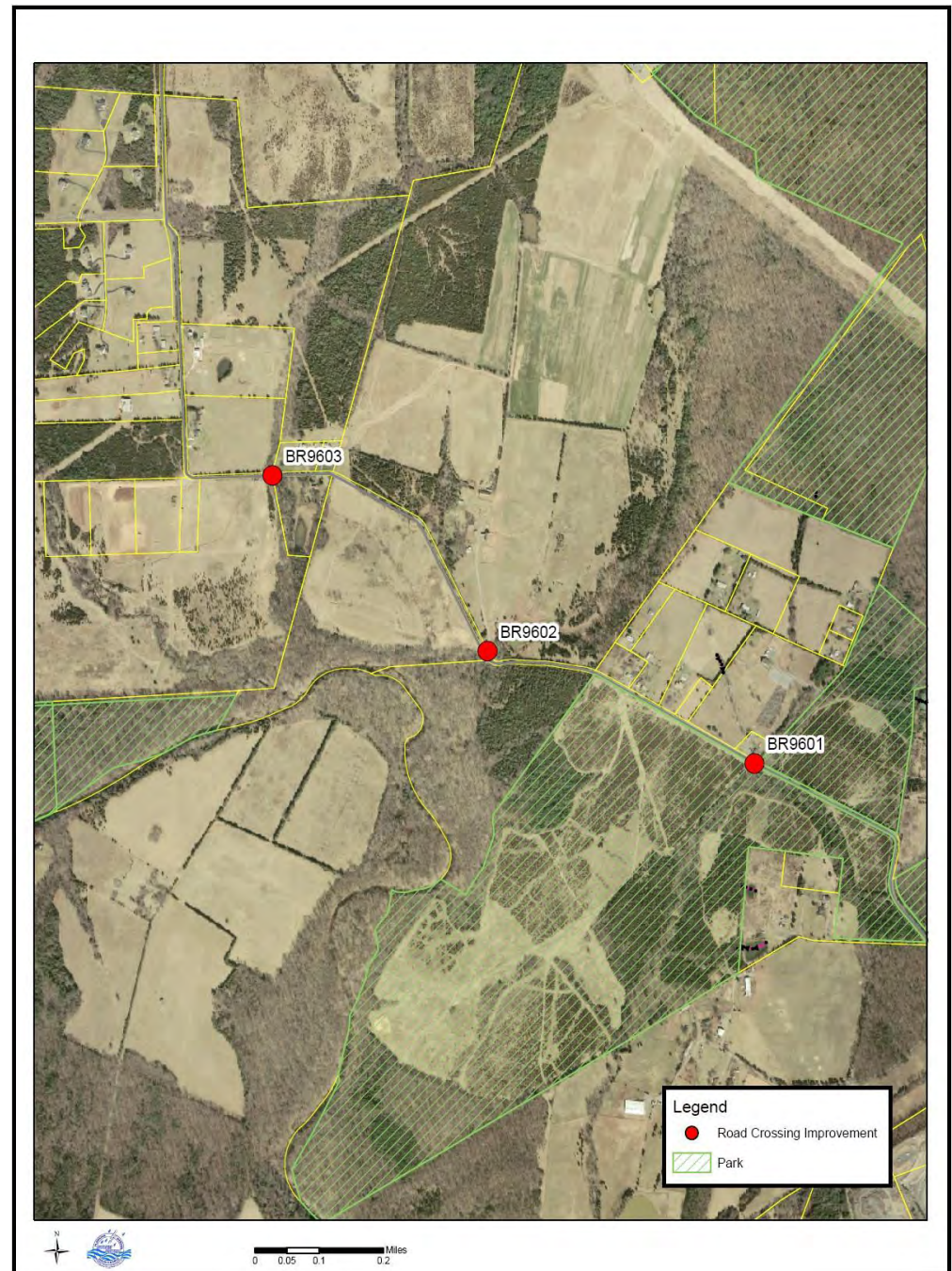
Project ID:	BR9601
Project Type:	Road Crossing Improvement project
Location:	Bull Run Post Office Road at unnamed tributary (easternmost of three crossings) within Bull Run West Subwatershed.
Description :	Raise road and replace existing culvert with a larger culvert to address roadway flooding and impact of road on the stream. Project will not be implemented using Fairfax County stormwater funds. The roads are maintained by the Virginia Department of Transportation and these improvements will be implemented during roadway improvement projects.



Project ID:	BR9602
Project Type:	Road Crossing Improvement
Location:	Bull Run Post Office Road at unnamed tributary (middle of three crossings) with Bull Run West subwatershed
Description:	Raise road and replace existing culvert with a larger culvert to address roadway flooding and impact of road on the stream. Project will not be implemented using Fairfax County stormwater funds. The roads are maintained by the Virginia Department of Transportation and these improvements will be implemented during roadway improvement projects.



Project ID:	BR9603
Project Type:	Road Crossing Improvement
Location:	Bull Run Post Office Road at unnamed tributary (westernmost of three crossings) with Bull Run West subwatershed
Description:	Raise road and replace existing culvert with a larger culvert to address roadway flooding and impact of road on the stream. Project will not be implemented using Fairfax County stormwater funds. The roads are maintained by the Virginia Department of Transportation and these improvements will be implemented during roadway improvement projects.



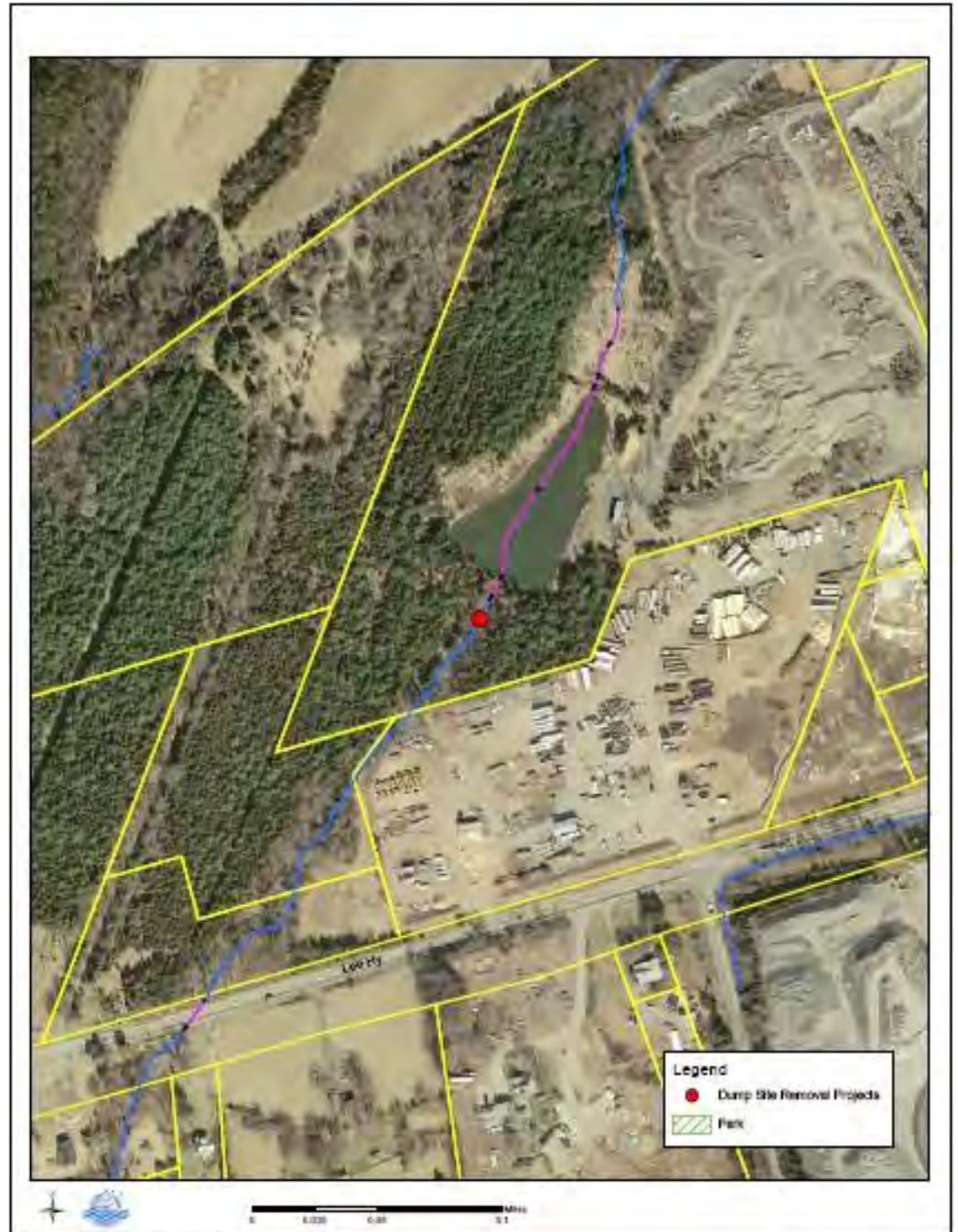
Project ID:	BR9801
Project Type:	LID Projects at Public Facility
Location:	Centreville Elementary School. Route 28 and Green Trails Boulevard. Bull Run East Watershed.
Description:	Implement LID project at Centreville Elementary School. Conceptual plan consists of two manufactured bioretention units at one location. Area served = 0.9 acres



The number and types of bioretention units included in the conceptual design form the basis for the construction cost estimate included in the plan. The sites will be evaluated for alternative onsite LID options such as conventional bioretention rain gardens, porous pavement, drainage swales, etc at the time that preliminary design evaluations are performed.

Project Cost Estimate				
Item	Quantity	Unit	Unit Cost	Total Cost
Manufactured Bioretention Units	2			\$41,250
Base Construction Cost				\$41,250
Mobilization (5%)				\$2,063
Subtotal 1				\$43,313
Contingency (25%)				\$10,828
Subtotal 2				\$54,141
Engineering design, surveys, land acquisition, utility locations, and permits (45%)				\$24,363
Total				\$78,504
Estimated Project Cost				\$79,000

Project ID:	BR9901
Project Type:	Dump Site Removal Project
Location:	Both banks instream, Unnamed Bull Run tributary. Near quarry upstream from Route 29. Bull Run West watershed
Description:	Dirt piles in the stream. Impact score of 7. (BLBU001.M001)
Estimated Project Cost:	\$5,000



Project ID:	BR9902
Project Type:	Dump Site Removal Project
Location:	Left bank flood plain, Bull Run tributary. South of Sudley Road near Peaceful Meadow Lane and Hallisey Court. Fairfax National Estates.
Description:	Rusted truck and metal waste. Impact score of 5. (BLBU005.M001)
Estimated Project Cost:	\$5,000

