City of Alexandria

Open Space Master Plan
2017 Updated Implementation Strategy
A Plan for Action 2017-2026
Technical Appendices

City of Alexandria, Virginia
Recreation, Parks, and Cultural Activities
Park Planning, Design & Capital Development

FEBRUARY 2017

Jefferson Houston Synthetic Turf Field, with playground in the background

***Shared Use** Open Space Typology*

Montgomery Park Pavilion

***Neighborhood Park** Open Space Typology*

Pork Barrel BBQ, Shops at Del Ray Easement

***Private with Public Access** Open Space Typology*

Dora Kelley Nature Park and Ford, Holmes Run

***Natural Area** Open Space Typology*

Freedman's Cemetery

***Historical/Destination** Open Space Typology*

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An analysis of the internal strengths and weaknesses and the external opportunities and threats affecting the City's ability to protect, enhance, and expand its open space system was performed. These assessments were then incorporated into the Ten-Year Recommendations for a decade of Actions.

Open Space Master Plan 2017 Updated Implementation Strategy

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Updated Mapping and Total Acreage Calculations

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Appendix 1.

Updated Mapping and Total Acreage Calculations

Map and total acreage of all open space protected (through acquisition, public access easements through development, conservation easements)

Mapping

The City of Alexandria's GIS data layers were updated and annotated. New acquisitions were added, including recorded public access easements confirmed through the search of court records. Additional information was highlighted and manipulated to demonstrate the amount of impervious surfaces (buildings, parking lots, roads, playgrounds for example) found in the City's open space.

Additional maps were created to test ideas and explore potential opportunities for future open space collaborations between public and private entities. Two maps illustrate these ideas: Cemeteries and Schools, Institutions, and Zoning. Each map identifies large parcels of land in the City that contribute to the overall quality of life via large areas of open space. Examples of collaboration between the City and such institutions exist: INOVA Alexandria has placed two separate scenic easements on its property, agreeing to manage the woodlands and to maintain the forest cover on the site.

Park and Open Space Types

The City has refined its list of protected open space into an updated typology classification. Open space within the city is categorized into eight different classifications. Organized in 2012, the intent by the City's Department of Recreation, Parks and Cultural Activities (RPCA) is to *ensure a system of open space that equitably responds to the City's recreational and natural resource needs while efficiently utilizing available resources*.[1] The chart to the right is taken from the City's Citywide Parks Improvement Plan 2014 and delineates the definition of and description of the various park and open space types found within the City.

Figure 1. City of Alexandria Open Space Typologies

Classification	Description	Size	Service	Estimated Planning Process Timetable
Citywide	Contains multiple uses within park boundary including: attracts visitors from all over the City Example: Chinquapin Park	15-20 acres	0-25 miles from users	2013-2014 *Complete*
Neighborhood	May include multiple uses within park boundary; attracts nearby residents Example: Beverley Park	20,000 sq. ft. to 5 acres	0-5 miles from users	2014-2015 *Complete*
Pocket Park	Small open space; mainly single use attracting nearby residents Example: Sunset Mini Park	Under 20,000 sq. ft.	.25-0.5 mile or less from users	2017 *Underway*
Natural Resource Areas	Includes open spaces that are primarily passive-use or preservation areas Example: Clermont Natural Park	No Minimum or Maximum	Citywide	2017 *Underway*
Shared Use	Includes parks that share facilities with schools and recreation centers Example: Patrick Henry Field	5-20 acres (average)	0-25 miles from users	Included as part of the 2013-2014 Long-Range Educational Facilities Plan
Destination/ Historical	Attracts users from beyond the region, typically because of particularly unique features Example: Fort Ward Park, Waterfront Park System	Varies	0-100 or more miles	Park Plans completed individually for these sites because of their unique character
Regional	Includes lands or facilities administered by other regional entities Example: Cameron Run Regional Park	50-75 acres	0-100 miles from users	Planned by external jurisdictions
Corridors/ Linear Parks/ Trailways	Includes trailways, corridors and linear parks that serve primarily as linear bikeway corridors, may include ROWs Example: Metro Linear Park	No Minimum or Maximum	0-100 miles from users	Bicycle/ Pedestrian Master Plan Complete

Typology chart excerpted from Citywide Parks Improvement Plan and modified for this document displays the eight classifications of parks and open space within the City of Alexandria

1 Citywide Parks Improvement Plan 2014. City of Alexandria, Virginia

A seemingly simple exercise, accurately accounting for protected open space within the City of Alexandria is challenging. There is not a national standard for defining what constitutes park land or protected open space. Some jurisdictions only count dedicated land. Other jurisdictions have employed less traditional tools to add open space to their community such as the use of conservation and scenic easements, public access easements and shared use agreements. Alexandria is also fortunate that it encompasses several hundred acres of regionally-owned and nationally-owned public park land and open space. Although not controlled by the City itself, the City's residents are unlikely to perceive a difference in the quality of the open space due to its ownership. That acreage provides natural areas, passive, and active play areas similar to those acres actually owned by the City.

Measuring the acreage of protected open space is also challenging. With the broader use of Geographic Information System software (GIS) for mapping, exquisite detail and precision in measurements can be perceived. But, GIS mapping is still a mapping tool, and there are differences in acreage totals when the measurements drawn from real estate records are compared to the measurements drawn from the GIS data. As a comparative exercise, figures from the 2016 GIS data set were compared to acreage figures contained in the 2014 City Parks Typology Table. Comparison between the two data sources, as a percent of GIS data acres for the various typologies of parks within the City, exhibited a range from outliers of 65% to 248%, although most fell within a ten percent difference. The differences may be due to mapping boundaries, to parcel definition (whether the entire parcel included in the figure or only the actual open space portion), data source (some sites were derived from aerial photography and drawn by hand in the GIS data set versus using the more precise measurement from a land survey). As more real estate records with coordinated points become available, continuing to update parcel boundaries in the GIS data set for protected open space is important. Until then, the precision that appears with the use of a powerful computer tool such as GIS should be viewed with caution, and acreage counts rounded to no more than two digits to the right of the decimal point.

Acreage figures presented in the 2017 Updated Implementation Strategy data are drawn completely from the GIS data set, with the exception for right-of-ways. Not all of the data provided for the right-of-ways had mapping addresses. Given that, an exception was made for the right-of-way acreage total which was taken from the City's 2015 summary figure to be consistent.

Determining acreage counts is complicated by ownership. Alexandria currently has a number of large, privately owned parcels that either formally or informally allow public access. However, they are not protected from future development or diminishing open space and its natural resources and their future disposition poses a threat to the City's overall open space offerings.

The updated data layers have been combined to create the 2017 Protected Open Space Plan.

Figure 2. City of Alexandria Open Space Typologies Acreage Calculations Comparing Assumptions and Totals between 2017 and 2015 and prior

2017 Alexandria Open Space Master Plan Update Acreage Totals and Assumptions ***020317***

City Public Open Space	2015 and Prior Published Acreage	2016 GIS Measured Acreage	
City Owned Parks			
	575.745		City of Alexandria figure includes: Citywide Park @ 284.33, Historic or Conservation Easement @ 10.74, Historical/Destination @ 72.655, Natural Area @ 117.68, Neighborhood Park @ 84.06, and Pocket Park @ 6.29 per 2014 OS Typologies figures. *This totals 575.755 acres instead of 575.745 as included-numbers are taken directly from the 2014 Typologies).*
		581.93	February 2017 figure includes: Citywide Park @ 308.51, Historical/Destination @ 75.62, Natural Area @ 112.69, Neighborhood Park @ 79.36, Pocket Park @ 5.75
Historic or Conservation Easement (most if not all easements require a minimum of one day for public access)			
			This figure (10.74) is included in 2015 and prior calculations for City Owned Parks; not separate entry
		23.96	Includes INOVA Scenic Easement and 1500 King Historic Easement moved from prior inclusion in Private with Public Access Type (most, if not all, easements require a minimum of one day for public access)
Private WITHOUT Public Access			
	256.19		2015 and prior City of Alexandria figure
Small Area Plans (planned/committed/not yet built)			
		193.71	**Total represents acreage count drawn from 2016 GIS mapping SAP Open Space per SAP plans. (66.94 acres of this is promised explicitly in Small Area Plans; plans included are: Beauregard; Braddock Metro; Eisenhower East; Eisenhower West; Landmark/Van Dorn; North Potomac Yard; Oakville Triangle; Waterfront; Arlandria; Upper Potomac West; includes 3.25 acres from Potomac Yards contribution - outside of Potomac Yards SAP boundary)**
Private w/Public Access			
	186.827		
		112.43	2016 figure removed INOVA (scenic easement which does not permit public access per deed) and 1500 King, placed in Historic/Scenic Easements typology. Also removed Bishop Ireton and St. Agnes Schools.
Regional Jurisdiction			
	265.46		City of Alexandria 2014 Typology entry
		262.89	***Jurisdictions include National Park Service, Northern Virginia Regional Park Authority***
Right-of-way that RPCA maintains			
	87.28		
		87.28	***Using the City's figure of 87.28 and not a figure drawn from 2016 GIS, contrary to all other categories in 2016 acreage calculation. There are too many discrepancies and unmapped Right-of-ways to accurately derive a figure from the mapped GIS data***
Shared Use			
	109.16		City of Alexandria 2014 Typology entry
		172.74	2016 GIS data. Includes updated JH Boundary. L/KLA also added Barrett Library and Burke Library open space, mapped according to parcel boundary. Includes Alex Renew Services rooftop turf field to this category due to lease agreement with City.
Total Acres (includes historic easements)			
	1480.662		[City's 2015 number includes properties that are private WITHOUT public access
		1434.94	2017 number includes All Typologies listed, using the 87.28 figure for ROW Total Acres that the City Controls or has some form of public access agreement, even if limited. Figure INCLUDES promised acreage within Small AREA PLANS
Total Publicly Accessible Open Space			
	1224.472		City's 2015 number MINUS the Private w/o Public Access acreage
		1241.23	**2017 number EXCLUDES SAP acreage. SHOULD IT EXCLUDE SCENIC AND HISTORIC EASEMENTS AS WELL?**
Total RPCA Park Space			
Total RPCA Park Space (does not include private, rights-of-way, Regional, or Shared)	**575.745**		2017 figure is the same as City-Owned Parks.
		581.93	
Total Publicly Owned Park Space			
	950.365 acres		2015 City of Alexandria figure does not include rights-of-way, private with and without access easements
		1017.56	2017 figure includes all City-Owned Parks plus Regional Jurisdiction and Shared Use; total does NOT include Historic or Conservation Easement, SAPs, Private w/Public Access, ROWs
Impervious Surfaces			
		157.92	2017 Impervious surfaces include City of Alexandria trails including added gravel trails with assumption of 6 foot wide width; Impervious definition per City of Alexandria's Zoning Code
Active Use			
		101.02	Active recreational uses of open space land includes primarily programmed activities. Athletic fields (baseball, football, soccer, softball, multi-use); Court sports (basketball, multi-use, tennis, volleyball); Facilities that support such activities (batting cages, press box, spectator seating); Fenced dog park; Swimming pools (kiddie, full size); Performance space; Playgrounds (sandbox, tot lot, playground); and Skateboard park.

Figure 3. Typology Calculations

The following tables in Figure 3 provide a screen shot capture of a working spread sheet (provided separately) totaling all acreages and comparing the 2014 Typology figures with those derived from the 2016 Update GIS mapping. Organized by Typology, each entry is named, its District noted, and its current address entered. Some properties enter the development process with one address which may change during the approval process. As shown in the Notes column, where this duplicate entry has occurred, the duplicate entries have been combined where known. There are still properties as indicated in the notes, that require further research. If entries have been moved from one typology to another, that information and reason for doing so is noted in the notes column.

Information for the following charts is accurate as of 02/03/17 with the exception for Neighborhood Parks which was updated on 03/07/17.

***2017 City of Alexandria Protected Open Space Typologies 02/03/17* Cells shaded in light orange indicate edits or additions to the 2014 Park Typology notation on the City base. Cells shaded in darker orange indicate 2014 Park Typology entries excluded from 2016/2017 Typology update and acreage calculations. Cells shaded in darkest orange indicate probable double counting of same parcel.**

Park Name organized by Typology	District	Address	Acres per 2014 Typology	Acres per 2016 GIS update	Notes
Citywide Park Typology			**284.33**	**308.51**	
Armistead Boothe Park	BenBrenman	520 Cameron Station BV	10.81	9.98	
Ben Brenman Park	BenBrenman	4800 BRENMAN PARK DR	48.33	51.5	
Cameron Station Linear Park	BenBrenman	5131 Brawner Pl	7.56	3.15	
Chinquapin Park	FourMile	3210 King St	28.27	28.54	
Duke Street Dog Park	BenBrenman		0.99	2.27	
Four Mile Run Park	BenBrenman	3700 Commonwealth Av	51.56	48.49	
Holmes Run Park/All Veterans Park	BenBrenman		33.81	18.49	LKLA updated/extended boundary to include small parcel labeled as All Veterans Park (from City Parcel y layer)
Holmes Run Park/Brookvalley Park	BenBrenman		22.03	33.89	
Holmes Run Scenic Easement	BenBrenman	1201 N BEAUREGARD ST	8.02	8.12	Includes Mark Winkler donation
Joseph Hensley Park	Hensley	4200 Eisenhower Ave	21.66	24.16	
Potomac Greens Park	Simpson	700 Carpenter Rd	18.47	17.4	
Potomac Yard Park	Simpson	600 East Monroe Ave	4.2	20.45	
Potomac Yard Landbay K Extension	Simpson		4		Included in 2014 Typology, not included in 2017 Typology listing (GIS - 4 acres); acreage included in 2017 SAP
Simpson Stadium Park	Simpson	426 E Monroe Ave	9.94	16.49	
Tarleton Park	Hensley	4420 A Vermont Ave	1.61	12.98	
Witter Fields	Hensley	2700 Witter Dr	13.07	12.6	Acreage figure INCLUDES parking lot adjacent to athletic fields.

Figure 3. Typology Calculations, continued

2017 City of Alexandria Protected Open Space Typologies 02/03/17 **Cells shaded in light orange indicate edits or additions to the 2014 Park Typology notation on the City base. Cells shaded in darker orange indicate 2014 Park Typology entries excluded from 2016/2017 Typology update and acreage calculations. Cells shaded in darkest orange indicate probable double counting of same parcel.**

Park Name organized by Typology	District	Address	Acres per 2014 Typology	Acres per 2016 GIS update	Notes
Historic, Conservation, or Scenic Easement			**10.74**	**23.96**	Easement parcels are required to be open to the public a minimum of one/year; included in publically accessible open space. Anomalies noted below.
1007 King St	Waterfront	1007 King St	0.06	0.02	
1020 Prince St	Waterfront	1020 Prince St	0.1	0.04	
1122 Prince St	Waterfront	1122 Prince St	0.03	0.01	
115 & 117 S Alfred St	Waterfront	115 & 117 S Alfred St	0.05	0.05	
118 N Alfred St	Waterfront	118 N Alfred St	0.04	0.01	
13 Russell Road	Waterfront	13 Russell Road	0.24	0.2	
1500 King Street (changed from 2014 Typology)		**1500 King Street**		0.11	LKLA changed 2014 Typology from Private w/ Public Access to 2017Typology listing as Historic or Conservation easement. Private historic easement, not public open space (0.11acres listed in 2014 Typology)
1900 Russell Road	FourMile	1900 Russell Rd	0.36	0.36	
201 Prince Street	Waterfront	201 Prince St	0.08	0.03	
202 Duke Street	Waterfront	202 Duke St	0.06	0.03	
205 North View TR	Waterfront	205 North View Terrace	0.13	0.09	
205 S Lee Street	Waterfront	205 S Lee Street	0	0.02	
206 N Pitt Street	Waterfront	206 N Pitt St	0.03	0.02	
208 S St. Asaph Street	Waterfront	208 S St. Asaph St	0.12	0.09	
209 S St. Asaph Street	Waterfront	209 S St. Asaph St	0.09	0.04	
209 S. Fairfax Street	Waterfront	209 S. Fairfax St	0.12	0.06	
211 Cameron Street	Waterfront	211 Cameron St	0.09	0.07	
215 N. Fairfax Street	Waterfront	215 N. Fairfax St	0.1	0.07	
216 N. Alfred Street	Waterfront	216 N. Alfred St	0.05	0.03	
216, 218, 220 N. Lee Street	Waterfront	216, 218, 220 N. Lee St	0	0.09	
218 S. Lee Street	Waterfront	218 S. Lee St	0.13	0.1	
220 N. Washington Street					This is not mapped. Historic Preservation Easements chart states that it is held by the City. Does this mean it is publicly accessible? 0.39 acres in prior source measurement
223 S. St. Asaph Street/601 Duke Street	Waterfront	223 S. St. Asaph Street/601 Duke Street	0	0.19	
2413 King Street	Waterfront	2413 King St	0.7	0.61	
310 S. Lee Street	Waterfront	310 S. Lee St	0.17	0.12	
311 E. Howell Street	Waterfront	311 E. Howell St	0	0.09	
312 S. St. Asaph Street	Waterfront	312 S. St. Asaph St	0	0.03	
3401 Russell Road		3401 Russell Road	2.83	0.19	Is this a duplicate entry with Kust Easement below, 3104 Russell Road?
401 S. Lee Street	Waterfront	401 S. Lee St	0	0.01	
418 S. Lee Street	Waterfront	418 S. Lee St	0	0.08	
420 S. Lee Street	Waterfront	420 S. Lee St	0	0.11	
428 S. Lee Street	Waterfront	428 S. Lee St	0	0.03	
506 Queen Street	Waterfront	506 Queen St	0	0.03	
508 Queen Street	Waterfront	508 Queen St	0	0.04	
508 S. Fairfax Street	Waterfront	508 S. Fairfax St	0	0.13	
514 Cameron Street	Waterfront	514 Cameron St	0	0.02	
514-516 Duke Street	Waterfront	514-516 Duke St	0	0.04	
518 Queen Street	Waterfront	518 Queen St	0	0.02	
520 & 522 Queen Street	Waterfront	520 & 522 Queen St	0	0.04	
601 Oronoco Street	Waterfront	601 Oronoco St	0	0.22	
607 Cameron Street	Waterfront	607 Cameron St	0	0.16	
609 Oronoco Street	Waterfront	609 Oronoco St	0	0.24	
619 S. Lee Street/207 Franklin Street	Waterfront	619 S. Lee Street/207 Franklin Street	0	0.74	
735 S. Lee Street	Waterfront	735 S. Lee St	0	0.04	
805-807 Prince Street	Waterfront	805-807 Prince St	0	0.07	
808 Prince Street	Waterfront	808 Prince St	0	0.02	
908 Queen Street	Waterfront	908 Queen St	0	0.01	
910 Queen Street	Waterfront	910 Queen St	0	0.01	
912 Queen Street	Waterfront	912 Queen St	0	0.01	
Battery Heights	Simpson	514 N Quaker La	0	2.6	
Cooper Dawson	FourMile	206 N Quaker LA	0.41	0.66	
Hufty Siegel Easement	Simpson	214 W Alexandria Av	1.4	1.25	
INOVA Alexandria	**Hensley**	**1200 N Howard St**		**10.01**	2014 Typology listing as Private w/ Public Access at 7.95 acres; switched in 2017 Typology to Historic or Conservation easement per language in the deed stating that it is a scenic easement and not publicly accessible.
Kust Easement	FourMile	3104 Russell Rd	2.83	2.62	Is this a duplicate entry with 3401 Russell Road above?
Quakers Ridge	Hensley	3511 Duke St	0.52	0.18	
West Masonic Easement	Simpson	403 W Masonic View Av	0	1.8	

Figure 3. Typology Calculations, continued

***2017 City of Alexandria Protected Open Space Typologies 02/03/17* Cells shaded in light orange indicate edits or additions to the 2014 Park Typology notation on the City base. Cells shaded in darker orange indicate 2014 Park Typology entries excluded from 2016/2017 Typology update and acreage calculations. Cells shaded in darkest orange indicate probable double counting of same parcel.**

Park Name organized by Typology	District	Address	Acres per 2014 Typology	Acres per 2016 GIS update	Notes
Historical/Destination			**72.655**	**75.62**	
210 Strand	Waterfront	210 Strand St.	0.102	0.17	
Armory Tot Lot	Waterfront	208 S Royal St.	0.18	0.17	
Battery Rodgers	Waterfront	S Lee St/ Green St	0.05	0.08	Held by NVCT- does easement grant public access?
Beachcomber	Waterfront	0 Prince St & 200 Strand Street	0.443	0	Included in 2014 Typology; Beachcomber property sold in 2015 so excluded from 2017 Typology
Former Old Dominion Boat Club and Parking L	Waterfront				ODBC and Parking Lot included in SAP acreage
Douglas Cemetery				**1.4**	LKLA added to new typology/updated open space from City ROW_Acres layer because parcel shows City ownership, though cemetery is private.
Fort Ward Park and Historic Site	**Hensley**	**4301 W Braddock Rd**	**43.46**	**43.46**	LKLA updated boundary to exclude Oakland Baptist Cemetery, which is private and therefore cannot be considered public open space.
Founders Park	Waterfront	351 N Union St	4.67	4.8	
Founders Park Alley	Waterfront	414 A N Union St	0.02	0.02	
Freedmans Cemetery	Waterfront	1001 S Washington St	1.01	1.11	Cemetery that is already included in City's open space
King Street Gardens	Simpson	1806 King St	0.38	0.38	
King Street Park	Waterfront	1 King St	0.16	0.17	
Market Square	Waterfront	108 N Fairfax St	1.11	1.1	
Olde Towne Pool	Simpson	1609 Cameron St	2.34	2.48	Updated JH Boundary
Oronoco Bay Park	Waterfront	100 Madison St	5.08	5.45	
Penny Hill Cemetery	Simpson	741 S Payne St	2.22	2.26	Cemetery that is already included in City's open space
Point Lumley Park	Waterfront	3 Duke St	0.39	0.46	
Roberdeau Park	Waterfront	1 Wolfe St	0.23	0.2	
Shipyard Park	Waterfront	1 Wilkes St	1.52	1.62	
The Lloyd House/220 N. Washington	Waterfront	220 N Washington St	0.31	0.39	
Thompsons Alley	Waterfront	1 Thompson Alley	0	0.15	
Torpedo Plaza and City Marina	Waterfront	107 N Union St	1.18	1.52	
Waterfront Park	Waterfront	1A Prince St	1.37	1.45	
West's Point Park	Waterfront	1 Oronoco St	0.07	0.08	
Windmill Hill Park/ Potomac View Park	Waterfront	501 South Union St	5.92	6.32	
Wythe Street Plaza	Waterfront	705 N Fairfax St	0.44	0.38	

Figure 3. Typology Calculations, continued

***2017 City of Alexandria Protected Open Space Typologies 02/03/17* Cells shaded in light orange indicate edits or additions to the 2014 Park Typology notation on the City base. Cells shaded in darker orange indicate 2014 Park Typology entries excluded from 2016/2017 Typology update and acreage calculations. Cells shaded in darkest orange indicate probable double counting of same parcel.**

Park Name organized by Typology	District	Address	Acres per 2014 Typology	Acres per 2016 GIS update	Notes
Natural Area			**117.68**	**112.69**	
731 S Pickett Street	BenBrenman	731 S Pickett St	0.46	0.47	
Cameron Station Phase VII	BenBrenman		0.75	0.37	
Clermont Natural Park	BenBrenman	4551 Eisenhower Av/200 Clerm	5.95	7.15	
Dora Kelley Nature Park and Ford	BenBrenman	5750 Sanger Ave	46.61	43.6	
Forest Park	FourMile	3100 King St	20.81	20.44	
Fort Williams Park	Hensley	501 Fort Williams Py	8.3	8.55	
Mark Winkler Donation	BenBrenman	1201 N Beauregard St	2.86		2014 Typology included this entry; 2017 Typology this entry has been combined with Holmes Run Scenic Easement as single parcel under Citywide Park Typology
Monticello Park	FourMile	320 Beverley Dr	6.18	6.39	
Old Cameron Run Park	Simpson	2251 Mill Rd	2.83	2.7	
Polk/Pelham Property	Hensley	5325 Polk Ave	2.34	2.35	
Rail Park	Simpson	2405 Potomac Avenue	4.2	4.17	
Robert Leider Park	FourMile	3002 Valley Dr	1.33	1.34	
Rynex Natural Area	BenBrenman	1500 N Chambliss	9.32	9.33	
Seminary Forest	Hensley	2200 Ivor Lane	4.6	4.76	
South Reynolds Park	BenBrenman	270 S Reynolds St	1.14	1.07	

Figure 3. Typology Calculations, continued

2017 City of Alexandria Protected Open Space Typologies **030717 updated info; *02/03/17* Cells shaded in light orange indicate edits or additions to the 2014 Park Typology notation on the City base. Cells shaded in darker orange indicate 2014 Park Typology entries excluded from 2016/2017 Typology update and acreage calculations. Cells shaded in darkest orange indicate probable double counting of same parcel.**

Park Name organized by Typology	District	Address	Acres per 2014 Typology	Acres per 2016 GIS update	Notes
Neighborhood Park			**84.06**	**79.36**	
3550 Commonwealth Avenue/VE	FourMile	3550 Commonwealth Av	0.53	0.63	
African American Heritage Park	Simpson	600 Holland Lane	6.17	6.4	Parcel requires mapping update and closer examination. Notes below are NOT reflected in mapping as of 030717 on open space or cemetery mapping or in sum totals for 2017 Park Typology accounting. Parcels comprising AAP include two private cemetery ownerships - Baptist Cemetery Association [1 acre] and Presbyterian [0.026 aces] - and multiple parcels assigned to City ownership: 5.087 acres; 0.28 acres; 1.37 acres = 6.737 acres assigned to City ownership and 1.026 acres assigned to private cemetery ownership within current mapped boundaries of protected open space
Angel Park	Simpson	201 West Taylor Run Py	10.34	11.48	
Beach Park	Simpson	201 Rucker Pl	1.67	1.74	
Beverley Park	FourMile	620 N Overlook Dr	1.7	1.9	
Carlyle Dog Park	Simpson	450 Andrews Ln	2.96	2.67	
Chambliss Park	BenBrenman	2505 N Chambliss Rd	8.08	8.13	
Crescent Park	Simpson		3		Included in 2014 Typology, not included in 2017 Typology listing (GIS - 3 acres); acreage included in 2017
Ewald Park	Hensley	4452 Duke St	3.88	3.85	
Goat Hill Park	FourMile	35 Kennedy St	2.47	2.44	
Hoofs Run Park and Greenway	Simpson	18 A E Linden St	4.53	4.95	
Hume Springs Park	FourMile	100 Dale St	0.53	0.54	
James Mulligan Park	Hensley	3000 S 28th St	3.51	3.91	
Land Bay N	Simpson	Parcels 522, 521, 520 Potomac	5.12		Included in 2014 Typology, not included in 2017 Typology listing; acreage included in 2017 SAP
Landover Park	FourMile	3301 Landover St	1.88	1.9	Includes Warwick Pool- City base shapefile titled Warwick Pool/Landover Park and includes total acreage for both parcels
Luckett Field/Stadium	Hensley	3540 Wheeler Av	3.31	3.4	
Montgomery Park	Waterfront	901 N Royal St	2.01	2.38	
Mount Ida Greenway	FourMile		0.18	0.19	
Mount Jefferson Park & Greenway	FourMile		6.97	6.91	
Powhatan Park	Simpson	1010 Douglas St	1.47	1.56	
President Gerald Ford Park/Oak	FourMile	1426, 1400, 1422 Janneys La	1.16	1.13	
Schuyler Hamilton Jones Skate Park	Hensley	3540 Wheeler Av	0.99	1.02	
Stevenson Park	BenBrenman	300 Stultz Rd	8.49	8.85	
Taney Avenue Park	Hensley	4149 Taney Av	2.58	2.88	
Timberland Park	FourMile	66A Kennedy St	0.53	0.5	

Figure 3. Typology Calculations, continued

***2017 City of Alexandria Protected Open Space Typologies 02/03/17* Cells shaded in light orange indicate edits or additions to the 2014 Park Typology notation on the City base. Cells shaded in darker orange indicate 2014 Park Typology entries excluded from 2016/2017 Typology update and acreage calculations. Cells shaded in darkest orange indicate probable double counting of same parcel.**

Park Name organized by Typology	District	Address	Acres per 2014 Typology	Acres per 2016 GIS update	Notes
Pocket Park			**6.29**	**5.75**	
Judy Lowe Neighborhood Park(1&7 East Del F	FourMile	1 East Del Ray Av	0.37	0.38	Renamed according to City website
Randolph and La Grande	FourMile	2304 Randolph Ave	0.09	0.1	Pocket park listed as 2304 Randolph Ave - renamed Randolph and La Grande according to listing in Right-of-Way typology (removed from ROW).
48 South Early St	Hensley	48 South Early St	0.42	0.43	
600 North Henry Street	Simpson	600 N Henry St	0.48	0.49	
Braddock and Commonwealth D	Simpson	5 W Braddock RD	0.22	0.22	
Charles Hill Park	FourMile	300 E Oxford Av	0.37	0.4	
Chetworth Place Park	Simpson	810 Chetworth Pl	0.28	0.28	
Elbert Triangle Park	FourMile		0.18	0.17	
Gentry Park	FourMile	210 A Guthrie Av	0.2	0.2	
Hillside Park	FourMile	264 Burgess Av	0.31	0.29	
Hunter Miller Park/ Fayette & Que	Simpson	250 N Fayette St	0.32	0.34	
Interior Park	Simpson		0.39	0.07	
James Bland	Simpson	840 N. Alfred Street	0.28	0.3	
Le Bosquet at Sunnyside	FourMile	615 West Glebe Rd	0.37	0.29	
Lynhaven Gateway	FourMile	101 Lynhaven Dr	0.12	0.18	
Lynhaven Park	FourMile	5 E Reed Av	0.25	0.27	
Mason Avenue Mini Park	Simpson	10 East Monroe Av	0.31	0.32	
Pendleton Park	Simpson	1320 Wythe St	0.38	0.11	
Portner Park	Simpson	1427 Powhatan St	0.04	0.04	
Ruby Tucker Park	FourMile	3500 Jefferson Davis Hy	0.31	0.24	
St. Asaph Park	FourMile	221 East Mount Ida Av	0.26	0.26	
Sunset Mini Park	Simpson	4 Sunset Dr	0.16	0.17	
Washington Way	Waterfront	120 N Pitt St	0.05	0.07	
Woodbine Tot Lot	FourMile	1509 Woodbine St	0.13	0.13	

Figure 3. Typology Calculations, continued

***2017 City of Alexandria Protected Open Space Typologies 02/03/17* Cells shaded in light orange indicate edits or additions to the 2014 Park Typology notation on the City base. Cells shaded in darker orange indicate 2014 Park Typology entries excluded from 2016/2017 Typology update and acreage calculations. Cells shaded in darkest orange indicate probable double counting of same parcel.**

Park Name organized by Typology	District	Address	Acres per 2014 Typology	Acres per 2016 GIS update	Notes
Private w/o Public Access			**17.31**	0	**This 2014 Typology category removed from 2017 Typology List**
Bishop Ireton High School	Hensley	253 Cambridge Rd	9.94	0	Included in 2014 Typology; not included in 2017 Typology - understanding is that there is no formal agreement between City and School
Braddock Gateway	Simpson	1219 First Street	0.06	0	Included in 2014 Typology; not included in 2017 Typology as construction has yet to begin
Four Mile Run and Route 1	Simpson		3.5	0	Included in 2014 Typology; not included in 2017 Typology - unclear parcel identification
Market Green	Simpson		1	0	Included in 2014 Typology; moved to Private w/Public Access in 2017 Typology but acreage not counted in Typology; acreage included in SAP as unbuilt
Metro Square Park	Simpson		0.7	0	Included in 2014 Typology; moved to Private w/Public Access in 2017 Typology but acreage not counted in Typology; acreage included in SAP as unbuilt
MV Commons	Simpson	3015 Mount Vernon Ave	0.06	0	Included in 2014 Typology; moved to Private w/Public Access in 2017 Typology
Payne Street Condos Easement	Simpson	621 Payne Street	0.34	0	Included in 2014 Typology; moved to Private w/Public Access in 2017 Typology
Post II/Carlyle Block O	Simpson	601 Holland Lane		0	Included in 2014 Typology; moved to Private w/Public Access in 2017 Typology
Shops at Del Ray Easement	FourMile	2312 Mount Vernon Ave	0.08	0	Included in 2014 Typology; moved to Private w/Public Access in 2017 Typology
St. Mary's School	Waterfront	400 Green St	1.63	0	Included in 2014 Typology; not included in 2017 Typology - understanding is that there is no formal agreement between City and School

Figure 3. Typology Calculations, continued

2017 City of Alexandria Protected Open Space Typologies 02/03/17 **Cells shaded in light orange indicate edits or additions to the 2014 Park Typology notation on the City base. Cells shaded in darker orange indicate 2014 Park Typology entries excluded from 2016/2017 Typology update and acreage calculations. Cells shaded in darkest orange indicate probable double counting of same parcel.**

Park Name organized by Typology	District	Address	Acres per 2014 Typology	Acres per 2016 GIS update	Notes
Private w/ Public Access			**182.727**	**112.43**	
1500 King Street		1500 King Street	0.11	0	Included in 2014 Typology; moved in 2017 Typology to Historic, Conservation, or Scenic Easement
2312 Mount Vernon Avenue		2312 Mount Vernon Ave	0.08	0	Double counted in 2014 Typology under Private w/Public Access and under Shops of Del Ray Easement under Private w/o Public Access; 2017 Typology consolidates under Shops of Del Ray under Private w/Public Access
406 E Bellefonte Dr	FourMile	406 E Bellefonte Dr	0.067	0.068	
Alexandria Country Day School	FourMile	2400 Russell Rd	3.89	2.93	
Alexandria House	Waterfront	300 Madison St	1	1.02	
ATA 2203 Mill Road	Simpson	2203 Mill Rd	1.01	2.1	
Black History Museum	Simpson		0	**0.05**	LKLA added to map from City ROW Acres layer
Christ Church	Waterfront	121 N Columbus St	1	0.72	
Courthouse Square	Simpson	400A Courthouse Sq	0.28	0.38	
Dulany Park	Simpson	505 & 444 Dulany St	0.7	0.93	
Fords Landing	Waterfront	99 Franklin St	0.74	0.74	
George Washington Masonic Memorial	Simpson	101 Callahan Dr	39.87	**35.43**	LKLA added entire parcel to map, including identifying impervious areas
Hennage (The Henry)	Simpson	500 Henry	0.52	0.58	
INOVA Alexandria	Hensley	1200 N Howard St	7.95	0	Included in 2014 Typology; moved in 2017 Typology to Historic, Conservation, or Scenic Easement
John Carlyle Square	Simpson	300 John Carlyle Street & 1901	1.15	1.4	
Lee Fendall House Garden	Waterfront	614 Oronoco St	1	0.09	
Market Green	Simpson		0	0	Included in 2014 Typology under Private w/o Public Access (1 acre), not included in 2017 Typology listing as it is still undeveloped and currently counted under SAP acreage
Methodist Protestant Cemetery	Simpson		2.74	2.74	
Metro Square Park	Simpson		0	0	Included in 2014 Typology under Private w/o Public Access (0.7 acre), not included in 2017 Typology listing as it is still undeveloped and currently counted under SAP acreage
MV Commons	Simpson	3015 Mount Vernon Ave	0	0.12	Included in 2014 Typology Private w/o Public Access; moved to Private w/Public Access in 2017 Typology
Old Club	Waterfront	555 South Washington St	0.09	0.27	
Payne Street Condos Easement	Simpson	621 Payne St	0	0.87	Included in 2014 Typology under Private w/o Public Access; moved to Private w/Public Access in 2017 Typology
Pickett's Ridge	Hensley	1101 Finley La	1.09	1.1	
Post II/Carlyle Block O	Simpson	601 Holland Lane	0	0.91	Included in 2014 Typology under Private w/o Public Access; moved to Private w/Public Access in 2017 Typology
Postmasters	Waterfront	329 First St	0.02	0.09	
Potomac Yard - Ground level open space	Simpson		10.44	0	Not mapped- ground level open space in Potomac Yard is in SAP layer
Presbyterian Meeting House Yard	Waterfront	316 S Royal St	1	0.32	
Rivergate Park	Waterfront	101 Madison St	2.84	3.03	
Shops at Del Ray Easement	FourMile	2312 Mount Vernon Ave		0.03	Double counted in 2014 Typology under Private w/Public Access and under Shops of Del Ray Easement under Private w/o Public Access; 2017 Typology consolidates under Shops of Del Ray under Private w/Public Access
South Carlyle Square	Simpson	825 John Carlyle St	0.12	0.09	
St. Martin de Porres Senior Center	Hensley	4650 Taney Av	1	2.11	
St. Stephens and St. Agnes	Hensley	400 Fontaine St	47.69		Included in 2014 Typology; not included in 2017 Typology - understanding is that there is no formal agreement between City and School
Stonegate Scenic Easement	Hensley		3.1	3.06	
Temple Beth El	Hensley	3830 Seminary Rd	3.12	3.11	
Tide Lock Park	Waterfront	1 Canal Center Pz	4.68	4.01	
Warwick Swimming Pool	FourMile	3301 Landover Street	0.8	0	Included in 2017 Typology Neighborhood Park within Landover Park acreage
Winkler Botanical Preserve	BenBrenman	5400 Roanoke Av/1397 N BEAU	44.63	44.13	

Figure 3. Typology Calculations, continued

2017 City of Alexandria Protected Open Space Typologies ***02/03/17*** **Cells shaded in light orange indicate edits or additions to the 2014 Park Typology notation on the City base. Cells shaded in darker orange indicate 2014 Park Typology entries excluded from 2016/2017 Typology update and acreage calculations. Cells shaded in darkest orange indicate probable double counting of same parcel.**

Park Name organized by Typology	District	Address	Acres per 2014 Typology	Acres per 2016 GIS update	Notes
Right of Way			**87.28**	***87.28***	**2014 Typology acreage figure used in 2017 update numbers due to lack of information in GIS for a number of right-of-way locations Although entries total 71.77, USE 87.28 for 2017 acreage count**
10 Russell Rd	Simpson	10 Russell Rd	0.29		
1301 Powhatan Street	Simpson	1301 Powhatan St	0.15	0.15	
1505 Powhatan Street/Old Traffic	Simpson	1505 Powhatan St	0.97		
18A E Linden	Simpson		0.38		
19-141 Mt. Vernon	Simpson		0.4		
24 E Rosemont	Simpson		0.18		
301-441 Mt. Vernon	Simpson		0.4		
3700 Mount Vernon Parking Lot	FourMile		0		
4 E. Rosemont Dr.	Simpson	Alley Entrance next to 406 E. Al	0.39		
406 E . Alexandria	Simpson		0.15		
4575 Seminary Road	Hensley	4575 Seminary Rd	0.83		
4600 block Raleigh Ave	**BenBrenman**		0		LKLA mapped 4630 Raleigh Ave- overlap with Holmes Run/Brookvalley Park- delete??
5143 Seminary Rd.	Hensley	5143 SEMINARY RD	0.57		
Alley at rear of 201-217 Common	Simpson		0		
Ancel Alley	FourMile		0.4		
Arlandria Alley	FourMile		1.23		
Beauregard 1	BenBrenman		0.91	0.91	
Beauregard2	BenBrenman	Armistead St and Beauregard	2.4	2.4	
Braddock & West Street	Simpson		0.09	0.087	
Calhoun and Seminary	BenBrenman		0.01	0.255	
Commonwealth Ave Medians	Simpson		4.45	4.45	
Douglas Cemetery	Simpson		1.4		2014 Typology under Right-of-Way; 2017 Typology included under Historical/Destination category
Duke and Commerce	Simpson		0.16	0.161	
Duke Street I	Simpson		0.36	0.357	
Duke Street II	Simpson		2.66	2.9	
Duke Street III	Hensley		4.7	4.72	
E & W Taylor Run Parkway (north)	FourMile		2.71	2.71	
E. Glebe Portal	FourMile				
Echols Alley	Hensley		0.04		
Edsall Rd. Medians	BenBrenman		0.45	0.45	
Eisenhower Ave	Hensley		4.32		
Fairbanks and Foster	Hensley		0.62		
Filmore Ave ROW	BenBrenman		0.14		
Fort Williams Parkway	Hensley		1.17	1.17	
Fort Worth Median	Hensley		0.08	0.08	
Francis Hammond Parkway Section	FourMile		0.49	0.49	
Francis Hammond Parkway Section	FourMile		0.1	0.1	
Fruit Growers	Hensley		1.15		
Fruit Growers Lot	Hensley				

Figure 3. Typology Calculations, continued

Hampton Street Islands	Hensley		0.18	0.18	
Hilton Street	Simpson				
Hume Ave Walkway	FourMile				
Jamieson	Simpson		0.23	0.23	
Janney's Lane and Francis Hammond	FourMile	801 JANNEYS LA	0.24	0.38	
Jefferson Davis Highway	Simpson				
King & Commonwealth	Simpson		0.07	0.075	
King and Callahan	Simpson		0.39	0.39	
King Street	Hensley		3.43	4.59	
Kingston Circle	FourMile		0.05	0.055	
Lebanon Union Cemetery	Hensley		0.82	0.826	
Leslie Ave	Simpson		0.04		
Lynhaven Alleys	FourMile		2.19		
MacArthur Island	FourMile				
Metro Linear Park	Simpson	300 Buchanan Street	3.83	2.65	
Mill Road	Simpson		0.58	0.576	
Moncure Drive	Simpson				
Monroe St. Bridge	Simpson		2.86	2.869	
Mt. Vernon & Russell Island	FourMile				
MVT Bashford lane	Waterfront	300 Bashford Ln			
N. Jordon St.	Hensley		1.07	1.0799	
Old Town South	Waterfront		0.88	0.88	
Orchard St.	FourMile				
Pegram St/Polk to Pickett	Hensley		3.78		
Powhatan and Bashford Medians	Simpson			1.37	
Quaker Lane Medians	FourMile		0.89	0.8956	
Randolph and La Grande	Simpson		0.09	0	Double counted in 2014 Typology - included both under Pocket Park (using address) and under ROW (using place name); 2017 Typology Pocket Park (using address)
Ridge Road	FourMile		0.02		
Route I Island	Simpson		0.23	0.23	
Route 1 N/S	Simpson		3.7	3.7	
Route 1 South Henry	Simpson		0.19		
S. French St. Circle	Hensley			0.071	
Seminary Rd	Hensley		0.54	0.566	
Stewart St. Dead End	FourMile				
Stonewall Alley	FourMile		0.1		
Suter Alleys	Simpson		0.04		
Taylor Run Park	FourMile	E Taylor Run PW	3.34	3.47	
Timberbranch Parkway	FourMile		6.19	7.41	
Timberbranch Right of Way	FourMile		1.06		
Upland Place	FourMile	701 UPLAND PL	0.22	0.27	
Van Dorn St. Medians	BenBrenman		8.27	8.27	
W. Braddock & Mt. Vernon Ave	Simpson		0.21	0.219	
W. Braddock Rd. Medians	Hensley		1.15	0.212	
Warwick Village Medians	FourMile			2.18	
Wheeler Ave	Hensley				
WOD	FourMile		4.2		
Yokum Right of Way	Hensley	450 YOAKUM PY	1.45	1.48	
Seminary Rd. Lot 543				0.55	LKLA added from ROW Acres layer because parcel data indicates City ownership.

Figure 3. Typology Calculations, continued

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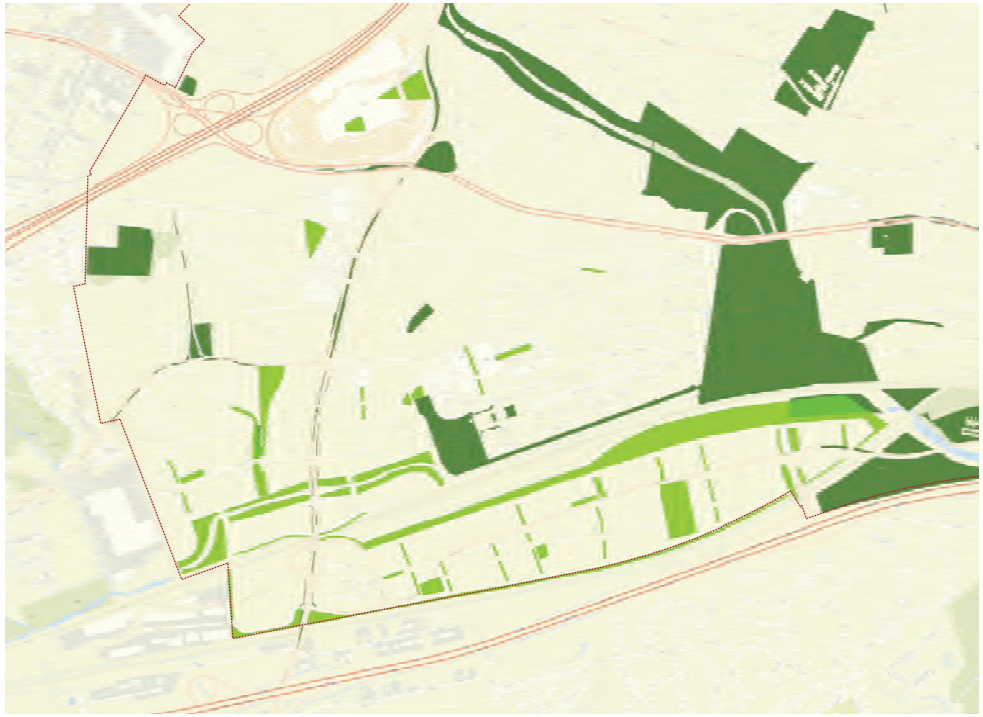
Park Name organized by Typology	District	Address	Acres per 2014 Typology	Acres per 2016 GIS update	Notes
Shared Use			**109.16**	**172.74**	
Alexandria Renew Services Turf Field			0	2	LKLA added due to leased property - rooftop open space
Barrett Library	Simpson	717 Queen Street	0	0.155	LKLA added, mapped open space only, not building
Beatley Library	BenBrenman	5005 DUKE ST	0	1.73	
Braddock Field	Simpson	1005 Mount Vernon Av	7.09	5.36	
Buchanan Park			0	0.8	Updated JH Boundary
Burke Library	Hensley	4701 Seminary Rd	0	0.228	LKLA added, mapped open space only, not building
Charles Barrett Center and School	FourMile	1115 Martha Custis Dr	1.45	6.08	
Charles Houston Community Center	Simpson	901 Wythe St	1.99	1.2	
Colasanto Center	FourMile	2802 Mount Vernon Av	0.73	0.5	
Cora Kelly Elementary School	FourMile	3600 Commonwealth Av	4.54	8.18	Includes Rec Center
Cora Kelly Recreation Center	FourMile	25 W Reed Av	0		
Dee Campbell Rowing Facility	Waterfront	1 A Madison St	0.8	0.67	
Douglas MacArthur School	FourMile	1101 Janneys La	4.4	3.18	
Duncan Library	FourMile	2501 Commonwealth Ave	0.61	0.84	
Durant Recreation Center	Simpson	1605 Cameron St	0	0	Included in updated Jefferson Houston boundary in 2017 Typology
Francis Hammond School	Hensley	4646 Seminary Rd	18.9	18.06	
George Mason Elementary School	FourMile	2601 Cameron Mills Rd	5.36	7.9	
George Washington Middle School	Simpson	1005 Mount Vernon Av	8.62	19.25	
James Polk School	Hensley	5000 Polk Av	8.44	10.58	
Jefferson Houston	Simpson	1501 Cameron St	3.18	4.52	Updated JH Boundary.
John Adams School	BenBrenman	5651 Rayburn Av	1.54	4.22	
Lyles-Crouch School	Waterfront	530 S St Asaph St	1.39	1.14	
Maury Elementary School	Simpson	600 Russell Rd	3.86	4.11	
Minnie Howard School	Hensley	3701 W Braddock Rd	5.38	7.58	
Mount Vernon Field and Recreation	FourMile	2600 Mount Vernon Av	1.58	5.52	
Nannie J. Lee Center	Simpson	1108 Jefferson St	8.85	9.04	
Patrick Henry School	Hensley	4643 Taney Av	11.56	14.96	
Ramsay Rec and School and Bud	BenBrenman	5700 Sanger Av	1.81	10.85	
Samuel Tucker Elementary School	**BenBrenman**	**435 FERDINAND DAY DR**		**0.305**	**LKLA added/mapped open space and playground.**
TC Williams High School	FourMile	3300 KING ST	7.08	23.78	Includes roads, which may account for acreage discrepancy.

2017 City of Alexandria Protected Open Space Map

This map is a compilation of research and the resulting data set that updates the map delineating the status of Open Space in the City of Alexandria in 2017, as included in *The City of Alexandria Open Space Master Plan 2017 Updated Implementation Strategy*.

Figure 4. Protected Open Space Map Enlargement



Enlargement of the 2017 Updated Open Space Plan, dark green indicates existing protected public open space and light green indicates proposed/committed open space as defined in multiple Small Area Plan documents; Landmark/Van Dorn Corridor Plan (Overlay) Plan excerpt as example image

Data Layer Construction and Notes

Attribute Table(s)
Open Space Info
New Typology List (2014); updated 2017

Map Layers
See legend
Base map (not included in legend)
Boundary

Notes
Alex ReNEW Synthetic Field is a rooftop field on leased space. It is included in the Shared Use category or Typologies. It is the only rooftop open space included in the 2017 Update.
Right-of-ways (ROW) is included in the total protected open space and is indicated with the same coloration as other typologies.

Figure 5. 2017 City of Alexandria Protected Open Space Plan

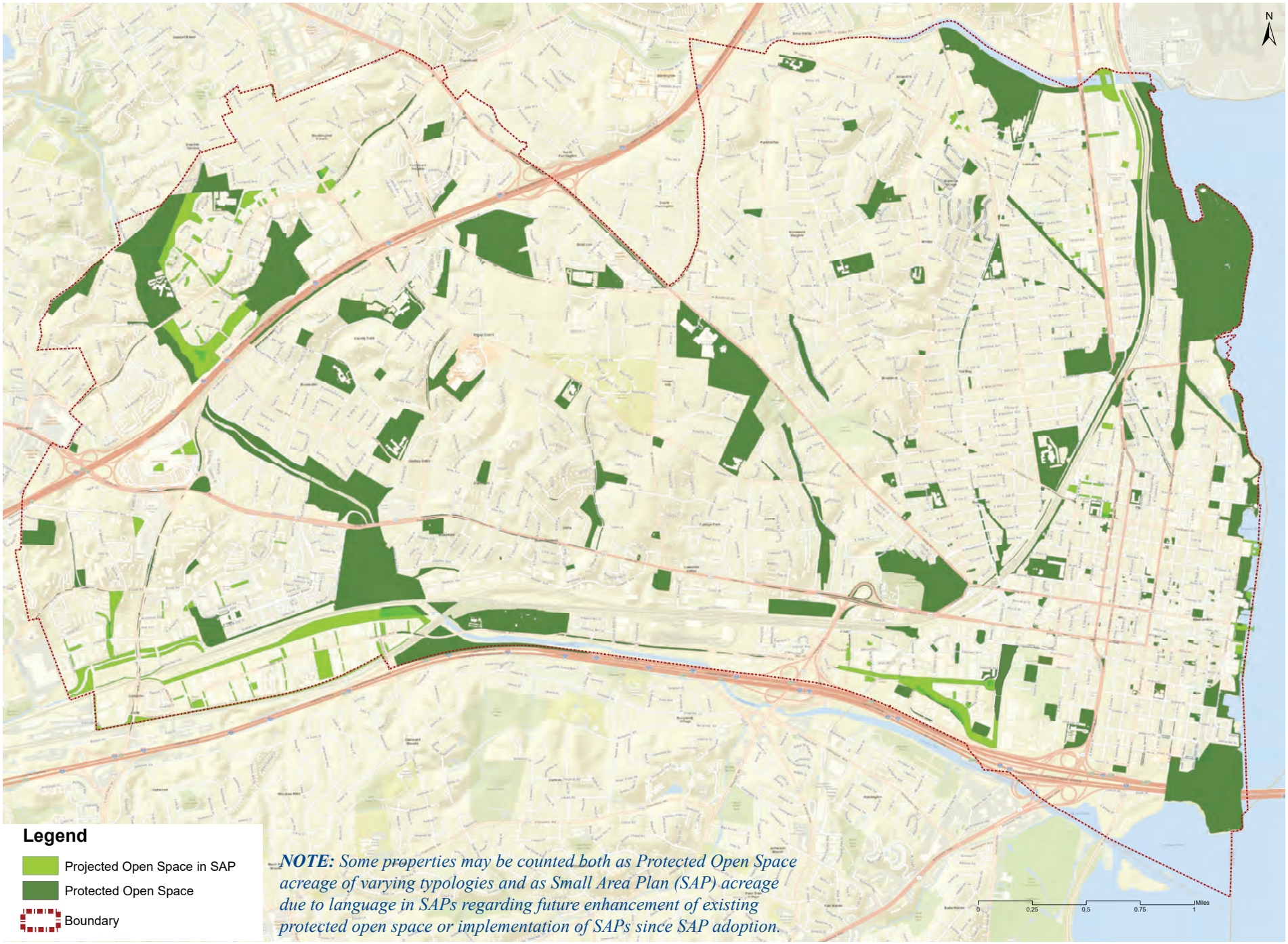
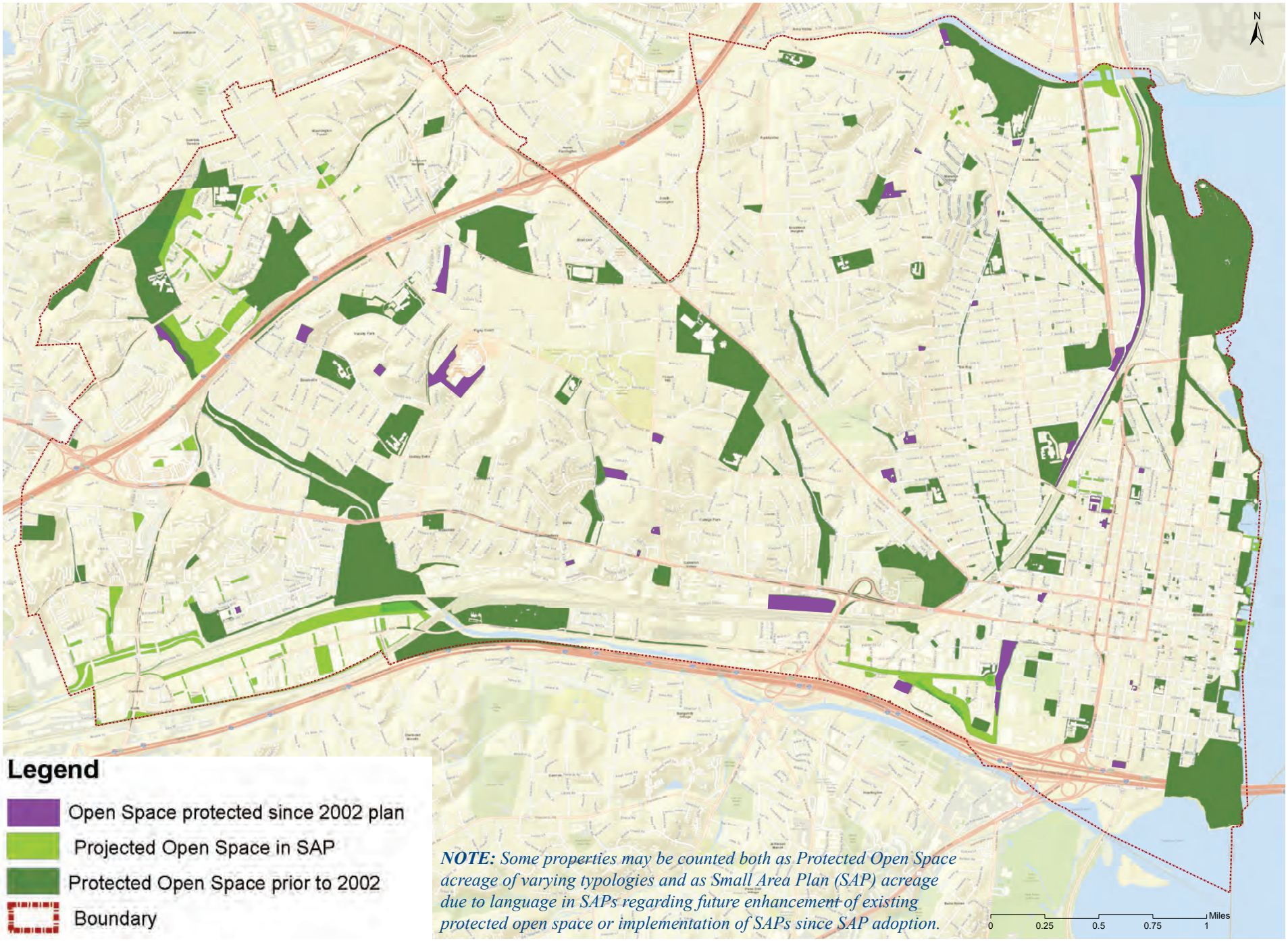


Figure 6. 2017 City of Alexandria Protected Open Space Plan, highlighting Areas Protected Since 2002 (in purple)



NOTE: *Some properties may be counted both as Protected Open Space acreage of varying typologies and as Small Area Plan (SAP) acreage due to language in SAPs regarding future enhancement of existing protected open space or implementation of SAPs since SAP adoption.*

Data Layer Construction and Notes

Map Layers Included
ACPS (public schools), City Recreation Center, City Libraries
Base map (not included in legend)
Private Secondary Schools
Boundary
Public post-secondary: VA TECH WAAC and NOVA Alexandria Campus
Masonic Memorial, Episcopal Theological, American Water
Updated Jefferson Houston boundary

Notes
Samuel W. Tucker is NOT included in the City's ACPS data layer. Therefore, it is mapped separately and noted independently in the legend.

Schools, Institutions, and Zoning of School Sites

Schools

This map includes the Alexandria City Public Schools (ACPS), recreation centers, and libraries drawn from the City of Alexandria's GIS data. Public post-secondary schools, private secondary schools and other institutional properties added as contributers to the overall City's open space land cover, although not directly controlled by the City of Alexandria or managed by RPCA.

Zoning of School Sites

This map also shows City Zoning in areas containing schools or institutions. The POS (Public Open Space) zone in particular represents opportunity for the City to utilize parts of privately owned educational or institutional properties as publicly accessible open space. Coordinated Development Districts are also important to note.

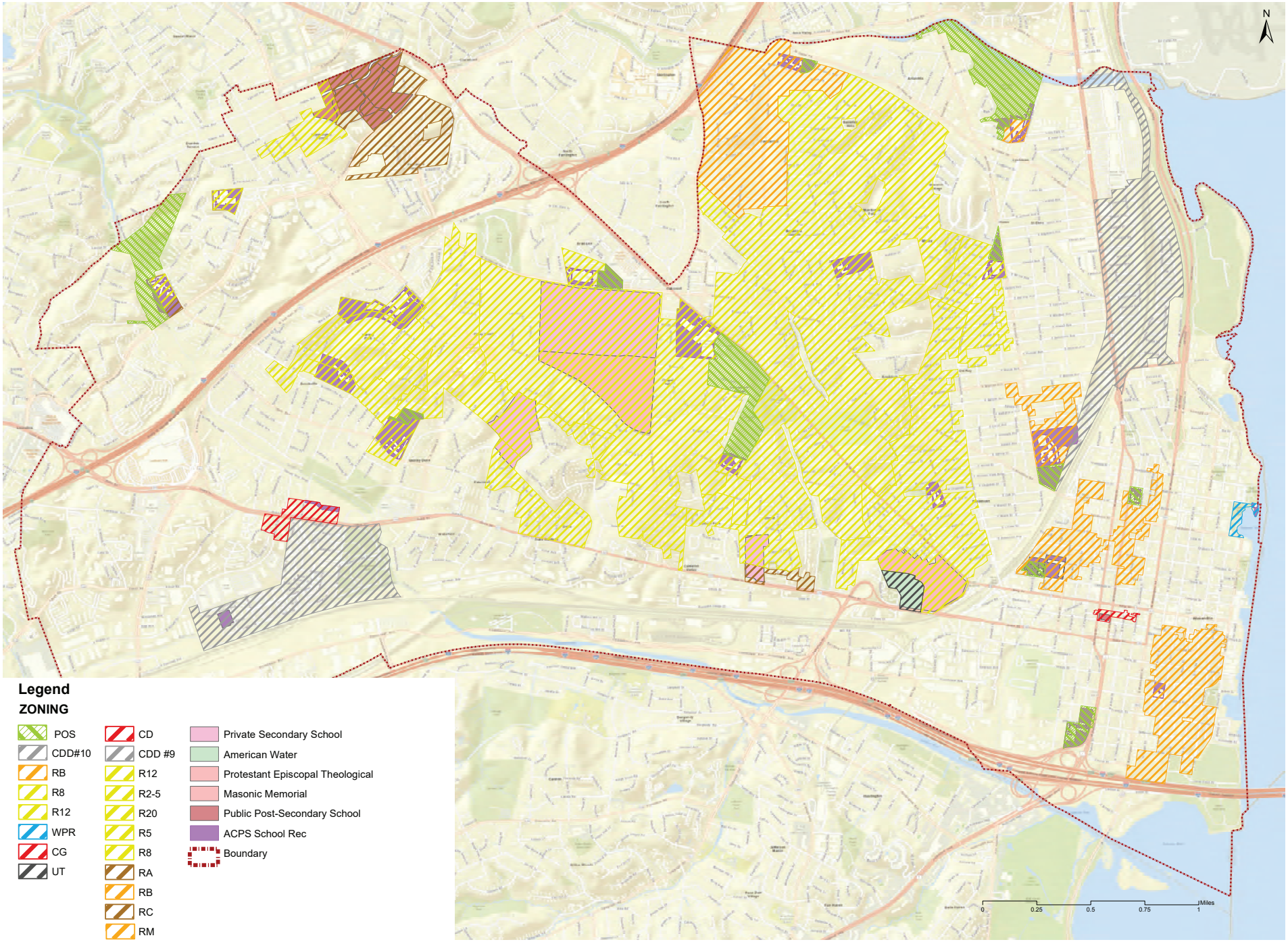
Institutions

The City of Alexandria includes a number of institutions with large, relatively undeveloped land holdings. Although not controlled by the City, they do contribute visually and ecologically to the City's overall open space system. Noted in the 2002 *Alexandria Open Space Plan* as sites that typically have valuable open space and natural resources on a portion of their land holdings, their stewardship was encapsulated in ***Goal 6. Protect and Preserve Institutionally-owned Open Space*** of the 2002 plan. Sites referenced in 2002 (not necessarily the same sites in 2016) under that goal included: St. Stephen's & St. Agnes School (multiple campuses); Alexandria Hospital; Temple Beth El; Episcopal High School; Episcopal Theological Seminary; First Baptist Church; Second Presbyterian Church; George Washington Masonic Memorial; Alexandria Water Company; and Alexandria County Day School. Most of these sites remain relatively undeveloped today, with the exception of Second Presbyterian which has been redeveloped as single family housing with a new public park.

For purposes of *The City of Alexandria Open Space Master Plan 2017 Updated Implementation Strategy* schools and institutional uses were recategorized in 2016, differing from those referenced in the 2002 plan. The 2017 Strategy's data set includes:

- Private Secondary Schools within the City of Alexandria
- Public Post-Secondary Schools within the City of Alexandria
- Episcopal Theological Seminary
- George Washington Masonic Memorial

Figure 7. Schools, Institutions, and Current Zoning of School Sites



- Alexandria City Public Schools and Recreation Centers, updated with new Jefferson Houston boundary
- American Water (reservoir near George Washington Masonic Memorial)

Parcels in their entirety were mapped in this layer, without excluding existing buildings, roads, and parking lots. Religious institutions other than the Episcopal Seminary (included due to its proximity to the high school) were not included at this time given the approach that if any private facilities were to be mapped, all private facilities within that use category in the City should also be included. For similar reasons, this map does not include private elementary, middle school, or early childhood schools or day care centers. INOVA Alexandria Hospital has an existing scenic easement and is mapped with other properties where the City has some form of control or land ownership. It is not included in this data set and map.

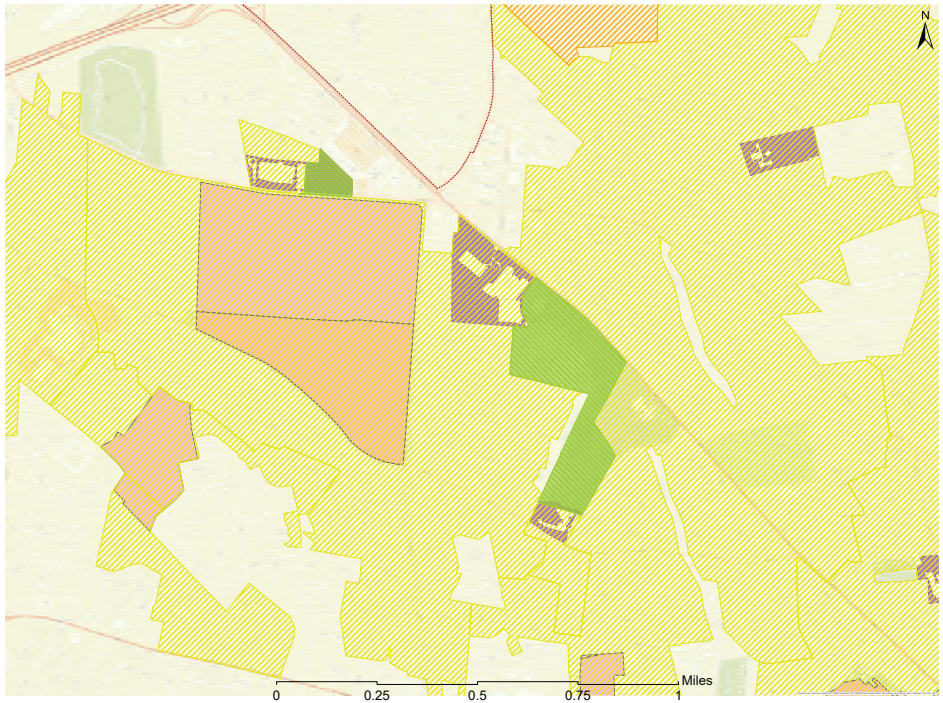
Future Mapping and Additional Research Opportunities

Consideration given to mapping religious institutions and private middle and elementary schools and day care centers.

Review definition of Public Open Space (POS) zoning; can sites that are home to public and even private schools be rezoned to POS to keep discussion as an open space provider in play? Should pieces of the POS zoning language be modified—particularly related to heights and lights? For example, under the current rules in the POS zone, it is difficult to add a restroom to a site without being in conflict with the height limit in the POS zone.

Review the Long Range Educational Facilities Plan (Fall 2015), particularly where it discusses land swaps if a schools builds on a POS zone.

Figure 8. Schools, Institutions, and Zoning of School Sites Map Enlargement



Enlargement of Schools, Institutions, and Zoning of School Sites indicates ACPS sites, and secondary private schools sites, current zoning, and large institutional land owners in the City mapping

Public and Private Cemeteries

Public and private cemeteries within the City of Alexandria provide attractive open space and natural and cultural resources. Given that their current land use as a cemetery is unlikely to change, is there an opportunity to work with various cemeteries to protect natural and cultural resources within the City? As proposed under Goal 8 in the *2002 City of Alexandria Open Space Plan*, is there a way to '*work with owners and administrators of cemeteries within the City to protect the sanctity of these sites while still allowing for visual access, open space linkages, natural resource protection, and interpretation where appropriate*?'

This map shows cemeteries that are already mapped in the City's open space layer in addition to private cemeteries, churchyards, and undefined burial grounds added according to the *City of Alexandria Historic Cemeteries of Alexandria* document. Some private cemeteries are assigned as public open space in the City's data layer which references a maintenance or use agreement. The Fort Ward Park & Historic Site boundary was amended to exclude the cemetery parcel shown on this map. Earlier mapping had incorporated the acreage within the park boundaries. The Episcopal Theological Seminary boundary was amended and boundaries were added per OHA data around potential cemetery sites on the Seminary property. The boundaries shown match those on an image provided by the City of Alexandria's Office of Historic Alexandria (OHA). This map represents opportunities for shared stewardship for open space that if utilized, could improve the City's open space ratio of protected acres of open space per City resident.

Updated Cemeteries Map

Cemeteries included on this map were drawn from the City's base and open space layer and from the document *Historic Cemeteries of Alexandria*. Several cemeteries noted or referenced in this document were not mapped and their location is unknown.

Future Cemeteries Mapping Opportunities

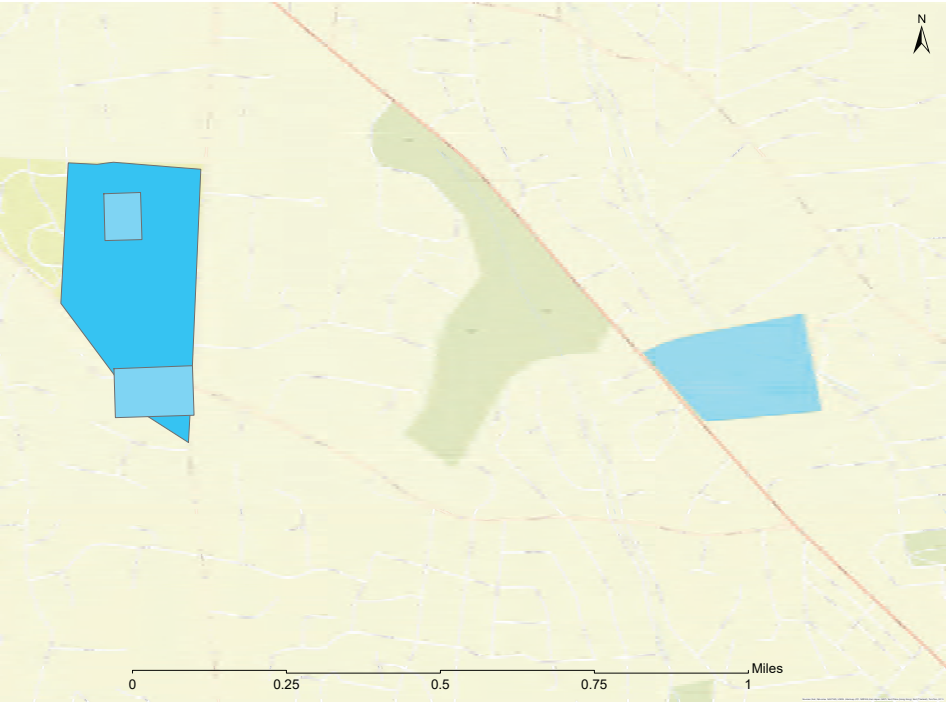
Consideration should be given to mapping known family cemeteries. The Theological Seminary Burying Ground must also be better defined. Suspected boundaries were provided by OHA and are included in this data set.

Data Layer Construction and Notes

Map Layers
Base map (not included in legend)
Churchyards
Undefined - Episcopal, IMH, etc.
Boundary
Extracted from City Base and Open Space Layer
Private cemeteries extracted from City's parcel data
New Layer data created: City of Alexandria *Historic Cemeteries of Alexandria* publication

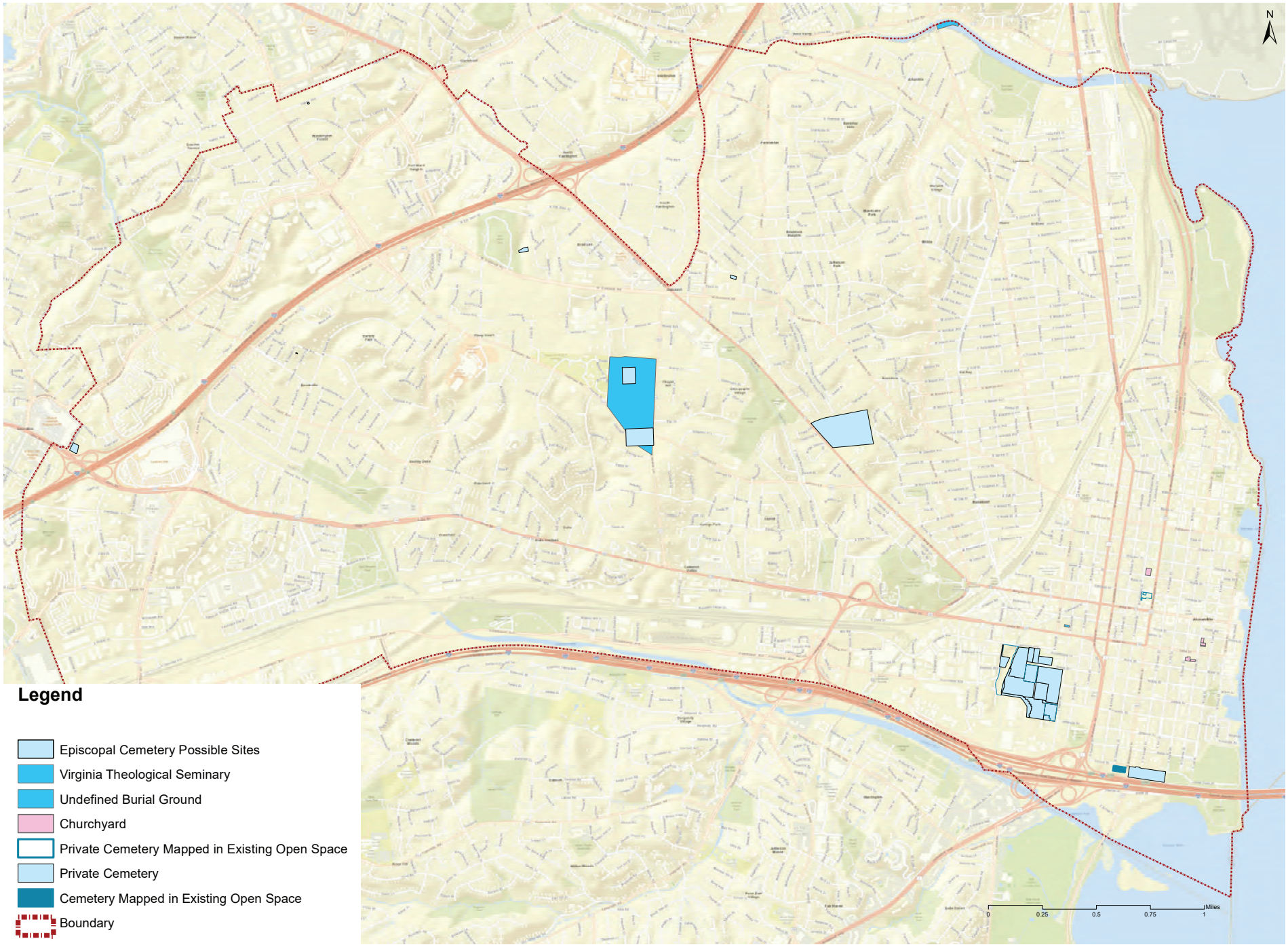
Notes
Some private cemeteries are inconsistently assigned as public space (Methodist Protestant Church and Baptist Cemetery)
Some cemeteries do not have addresses to be mapped in the future (are the cemeteries noted as private on the new layer or not?)
Keep 'churchyards' noted in *Historic Cemeteries of Alexandria* - check status of 216-200 South Fairfax Street - Independent Meeting House (follow up with OHA); Added 4 churchyards and 3 undefined cemeteries to layer

Figure 9. Public and Private Cemeteries Map Enlargement



Enlargement of Public and Private Cemeteries mapping, showing the boundaries in shades of blue provided by OHA for the Episcopal Theological Seminary on the left and Ivy Hill Cemetery on the right

Figure 10. Public and Private Cemeteries



Data Layer Construction and Notes

Map Layers
See Legend
Base map (not included in legend)
Boundary

Attribute Table(s)
Open Space Info
2017 Park Typology

Figure 11. Active and Passive Uses Map Enlargement

Active use is indicated by the lighter green color on the map enlargement to the right. Specific fields and court footprints are outlined that triggered their classification as Active Use. Passive open space is indicated by the darker green color.

Active and Passive Uses

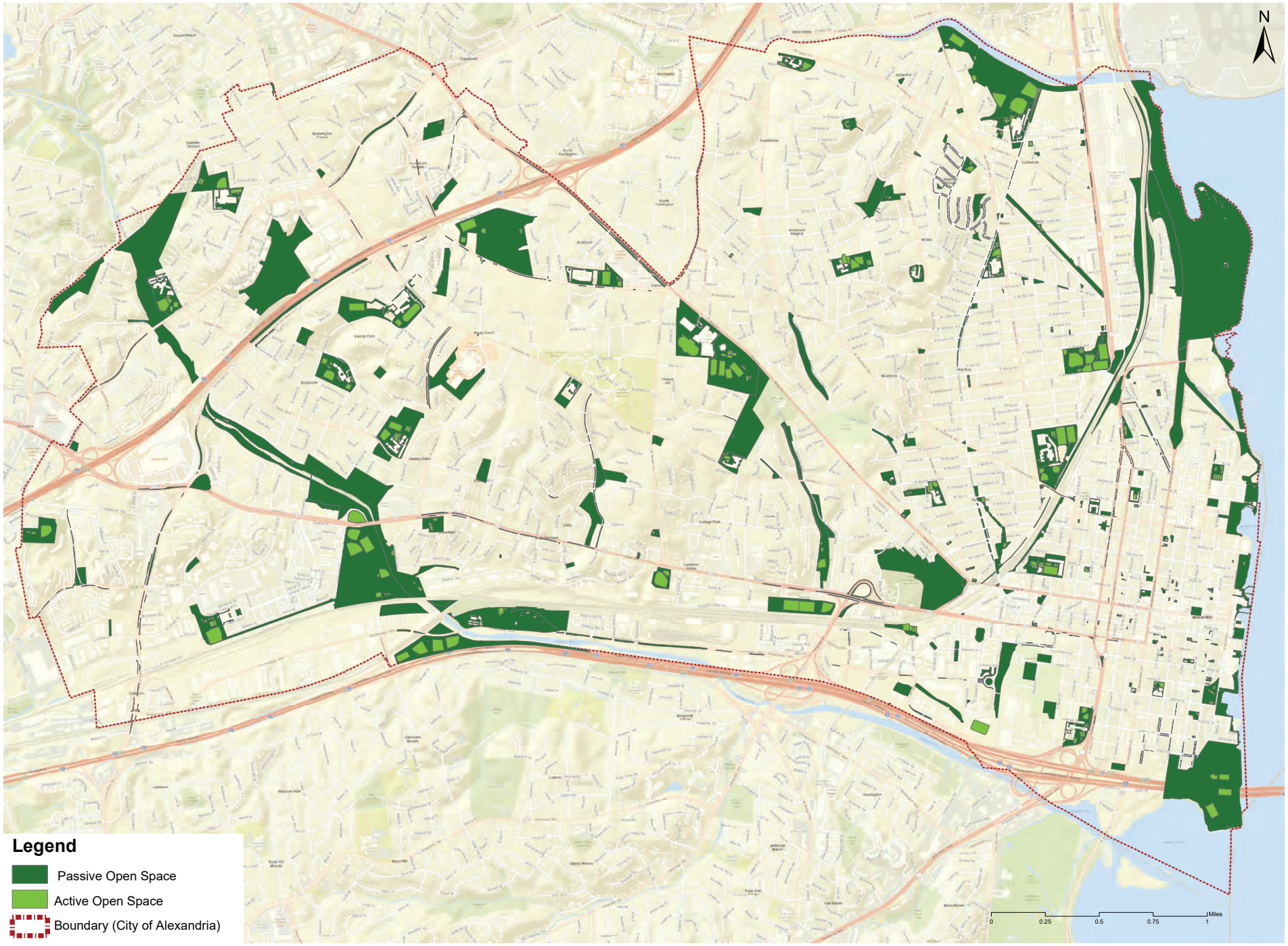
This map shows active and passive uses within the City's protected open space system. The *2002 Alexandria Open Space Plan* used four categories for Primary Use: Active, Passive, Trails, and Streetscapes/Scenic Roadways. The 2017 Update has simplified these uses into two categories: Active and Passive.

Active uses were mapped and by default, any acreage not falling into one of the active uses was coded as passive. In the 2017 mapping, Active Use areas include:

- baseball field
- basketball court
- batting cages
- fenced dog park
- football field
- kiddie swimming pool
- multi-use field
- multi-use court
- performance space
- playground
- press box
- sandbox
- skateboard park
- soccer field
- softball field
- spectator seating
- swimming pool
- tennis court
- volleyball court

Additional active uses include Samuel Tucker playground and the Alexandria Renew Services rooftop turf field.

Figure 12. Active and Passive Uses



Data Layer Construction and Notes

Map Layers
See Legend
Base map (not included in legend)
Boundary

Attribute Table(s)
Open Space Info

Figure 13. Facility Availability Map Enlargement

Fields with limited hours of general public availability or availability only for permitted users are indicated in the enlargement in orange. Scenic easements, with their own restriction on public access, are indicated in the salmon color

Use Type with Facility Availability

Having facilities and protected open space is a significant asset. However, when these facilities and sites have limited hours available for general public use, the asset may not be as significant, except for the lucky permit holders. This map indicates which of the resources mapped in the 2017 Protected Open Space Plan have some form of restriction on the availability of the site for general public use. Some of the synthetic turf fields have locked gates, while other playing fields have "Rock Your Park" hours with scheduled open play times and other times restricted access. Understanding that limitations make sense to protect resources, this map is not meant to point a finger, but to raise the issue and importance of monitoring the amount of space within the overall system that has limits placed on it for general public use and availability.

As the City's population grows, and the pressure on open space continues to increase, it is worth watching how much of the City's open space inventory is restricted for specific groups or use within specific time frames.

The City of Alexandria is moving to unlock its fields: a current example is the Jefferson Houston synthetic field which is open for public use when it is not permitted for a specific user and time. Additional mapping can be completed to further document restricted use times for the public on shared resources such as playgrounds located on school grounds and on public access easements with limited time frames such as being open to the public only during daylight hours. Athletic fields are mapped in this data set. Future mapping should include all lands dedicated to the City or held via easements that are categorized into these groups:

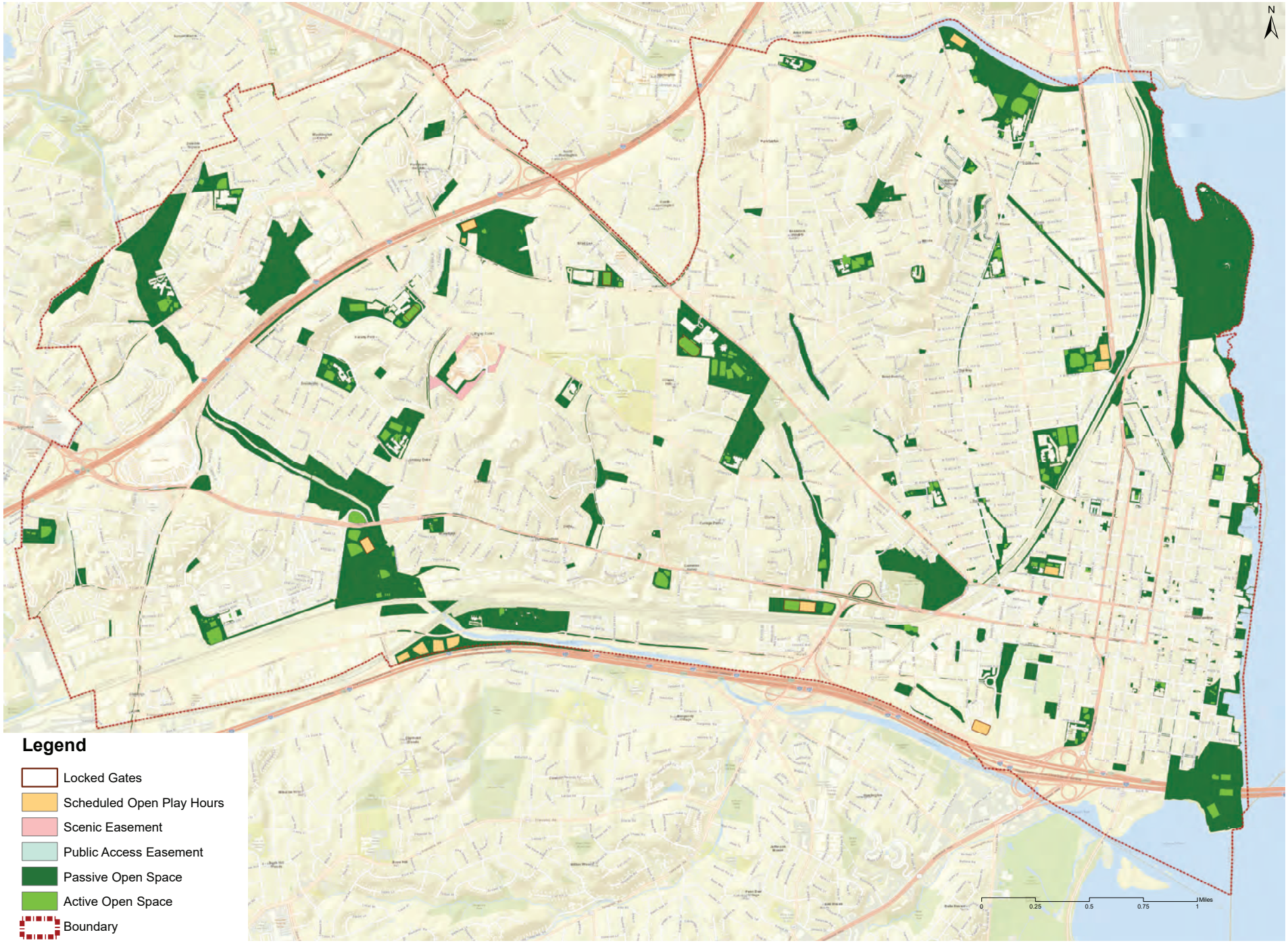
- Parcels with restricted access or locked gates
- Parcels with restricted and open hours (may be owned in whole by the City or access may be provided by easement)
- Parcels that are publicly accessible without restrictions

Figure 14. Operation Hours for *'Rock Your Park'*

City of Alexandria Rock Your Park Hours (Nov 30- Feb 25 2017)

Park/Field	Mon	Tue	Wed	Thu	Fri	Sat	Sun
Ben Brenman Park Soccer Field	8am-2pm	8am-2pm & 6-9pm	8am-2pm	8am-2pm & 6-9pm	8am-2pm		
Ft. Ward Park Field						11am-5pm	11am-5pm
Four Mile Run Park Soccer Field						11am-5pm	11am-5pm
Francis Hammond Upper Field						11am-5pm	11am-5pm
Jefferson Houston Field	5pm-dark	5pm-dark	5pm-dark	5pm-dark	5pm-dark	9am-5pm	9am-5pm
Limerick Field	8am-2pm	8am-2pm &6-9pm	8am-2pm	8am-2pm & 6-9pm	8am-2pm	11am-9pm	11am-9pm
Minnie Howard Field		6-9pm		6-9pm		11am-5pm	11am-5pm
Witter Recreational Park Soccer Field #2	8am-2pm	8am-2pm & 6-9pm	8am-2pm	8am-2pm & 6-9pm	8am-2pm	11am-5pm	11am-5pm

Figure 15. Use Type and Facility Availability



Data Layer Construction and Notes

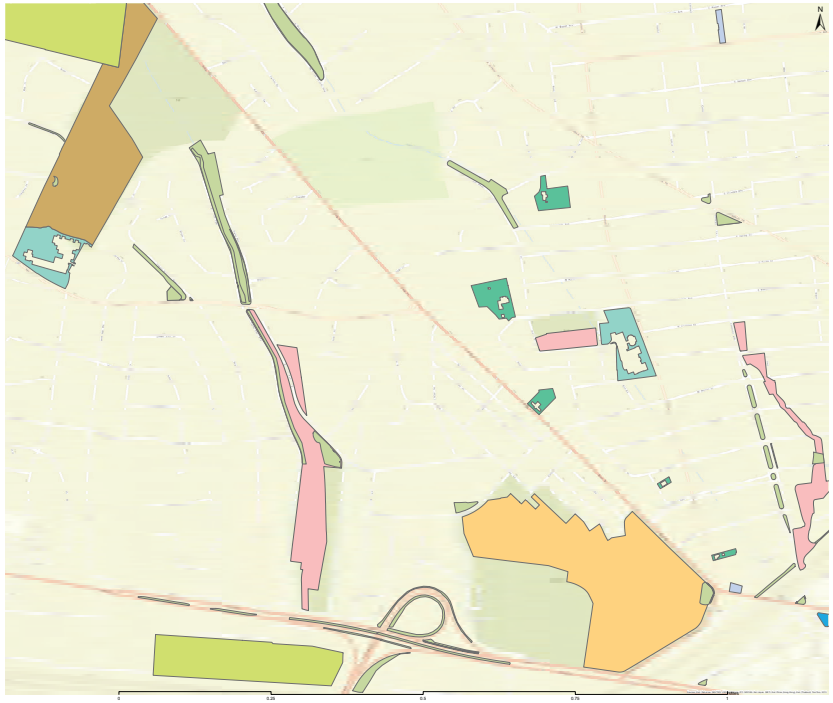
Map Layers
Base map (not included in legend)
Boundary
New Typology Mapping (updated from 2014 list generated by City)

Attribute Table(s)
2017 Park Typology

2017 Park Typologies

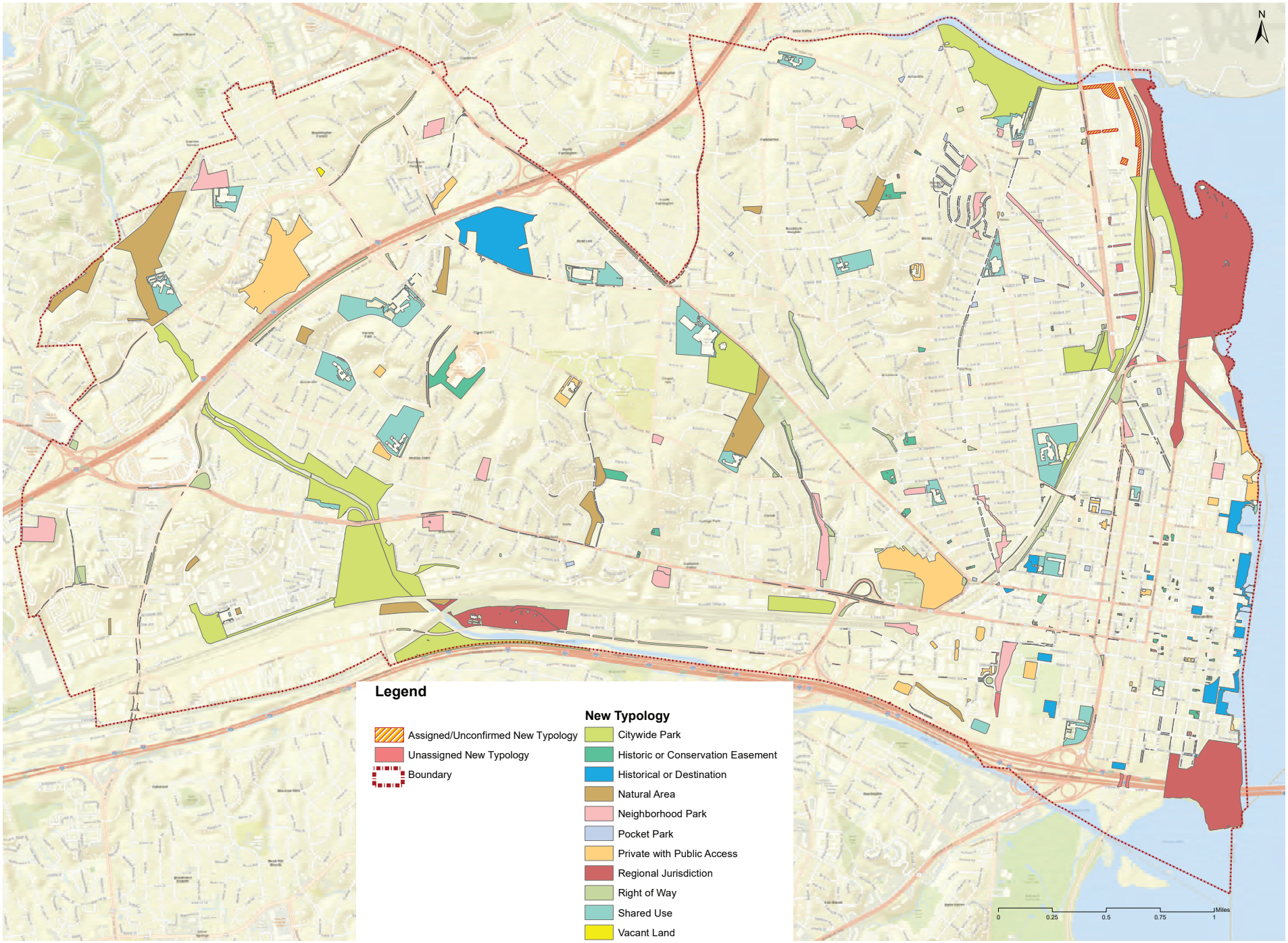
This map shows open space initially sorted and mapped by the City's 2014 Typology list, now updated with research results into a 2017 Park Typology. See Figure 3 for the background information used to compile this map. All properties are assigned an updated typology, with any questions or concerns as noted in Figure 3. Typology Calculations.

Figure 16. 2017 Park Typology Map Enlargement



Enlargement of Open Space Typologies, 2017

Figure 17. 2017 Park Typology



Data Layer Construction and Notes

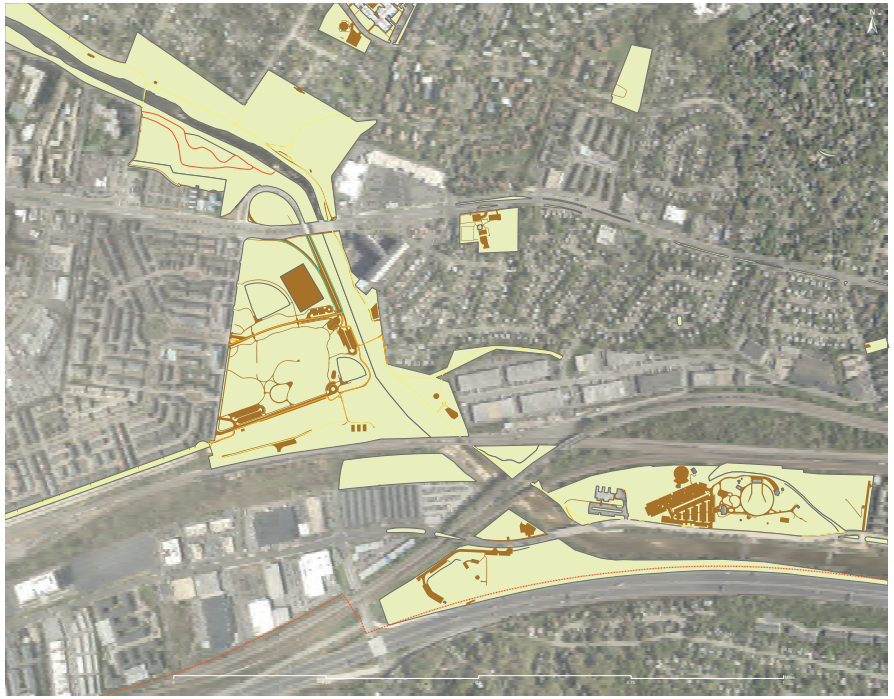
Map Layers
City of Alexandria Open Space Data
Synthetic Turf Fields
Impervious Surfaces
JH Impervious traced from aerial photograph
Gravel Trails
Pervious Pavers
City of Alexandria's Mowing data (ROW's)

Attribute Table(s)
Open Space Info
Jefferson Houston impervious surface traced from 2015 aerial photo

Impervious Surfaces

This map identifies areas of impervious surface within the protected open space. For purposes of the *City of Alexandria's Open Space Master Plan 2017 Updated Implementation Strategy* mapping, impervious surfaces are defined as buildings, paved parking lots, paved driveways and amenity areas (playgrounds, batting cages, courts, picnic shelter, performance space, skateboard area, swimming pool, kiddie swimming pool, spectator seating, safety surface, press box, and fountain). The City's trails' layer has been categorized as impervious with the exception of specifically noted locations of pervious paving materials, as indicated by City RPCA staff in the Summer of 2016. Gravel trails are considered to be impervious. Synthetic athletic fields are mapped as impervious surfaces and include: Ben Brenman, Witter, Fort Ward, Minnie Howard, Hammond Middle School, TC Williams, and Jefferson Houston. Right-of-ways were included in the overall protected open space, but the area of impervious surface was NOT calculated due to lack of data available. The synthetic turf fields on the roof of the Alex ReNew facility are categorized as impervious, as they are located on the roof of an impervious building roof surface.

Figure 18. Impervious Surfaces Map Enlargement



Enlargement of Impervious Surfaces map, brown indicating impervious surfaces (buildings, parking lots, trails, synthetic turf fields, etc.) and trails in a variety of colors

Although the Impervious Surfaces mapped are defined consistently with the language found in the City's Zoning Ordinance under Article XIII-Environmental Management, **this Impervious Surface data layer is NOT to be used for Chesapeake Bay purposes**. The definition from the City's Zoning Code reads: *Impervious cover. A surface composed of any material that significantly impedes or prevents natural infiltration of water into the soil. Impervious surfaces include, but are not limited to: roofs, buildings, streets, parking areas, and any concrete, asphalt, or compacted gravel surface.*[1] This map is intended to be used to guide future policy and development decisions, recognizing that one of the many environmental services the City's protected open space can provide is its use for rainwater infiltration.

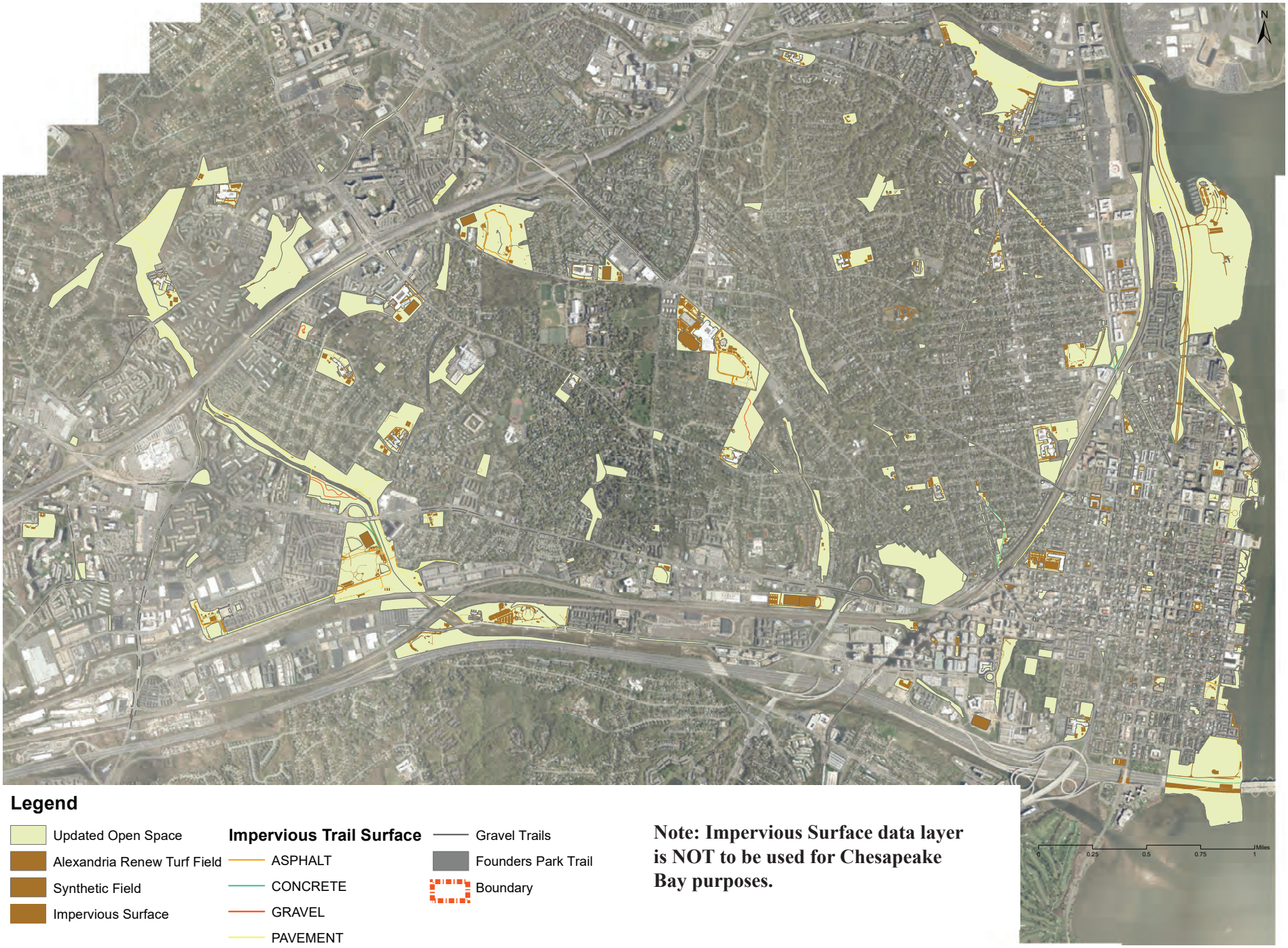
Future Impervious Surfaces Mapping Opportunities

Mapping the rights-of-way could lead to future opportunities as the City implements its Bicycle/Pedestrian Master Plan and Complete Streets guide, including the concept of the future value of some right-of-ways becoming pervious and environmentally productive open space through the implementation of a 'road diet.'

Current roads and rights-of-way are also included in the Waterfront Small Area Plan as future pedestrian only zones, another form of productive open space in the City.

1 Definition of Impervious Surfaces, From Municode 090716 ARTICLE XIII. - ENVIRONMENTAL MANAGEMENT [Editor's note—Ord. No. 4865, § 1, adopted March 15, 2014, repealed Art. XIII and enacted a new article as set out herein. The former Art. XIII, §§ 13-100—13-120, pertained to similar subject matter and derived from Ord. No. 4443, § 1, adopted April 22, 2006.]

Figure 19. Impervious Surfaces



Note: Impervious Surface data layer is NOT to be used for Chesapeake Bay purposes.

Data Layer Construction and Notes

Map Layers
Tree Canopy
Base map (not included in legend)
City Open Space Layer
Boundary

Tree Canopy

Two maps related to the City's Tree Canopy coverage are included in this document. The first map is the City of Alexandria's Tree Canopy map, drawn directly from the City's GIS data.

The second map places the Tree Canopy coverage in conjunction with the 2017 City of Alexandria's Protected Open Space map. As the City looks towards opportunities for future easements, shared use agreements, or acquisition, understanding where stands of trees or woodland forest remain can inform priorities for action.

Future Tree Canopy Mapping Opportunities

Some large open spaces do not have canopy coverage, as indicated on the map. Trees and shade area can help improve people's comfort when they walk and play in open space. It may be in those locations that City should focus particular efforts on expanding open space and the tree canopy.

Figure 20. Tree Canopy

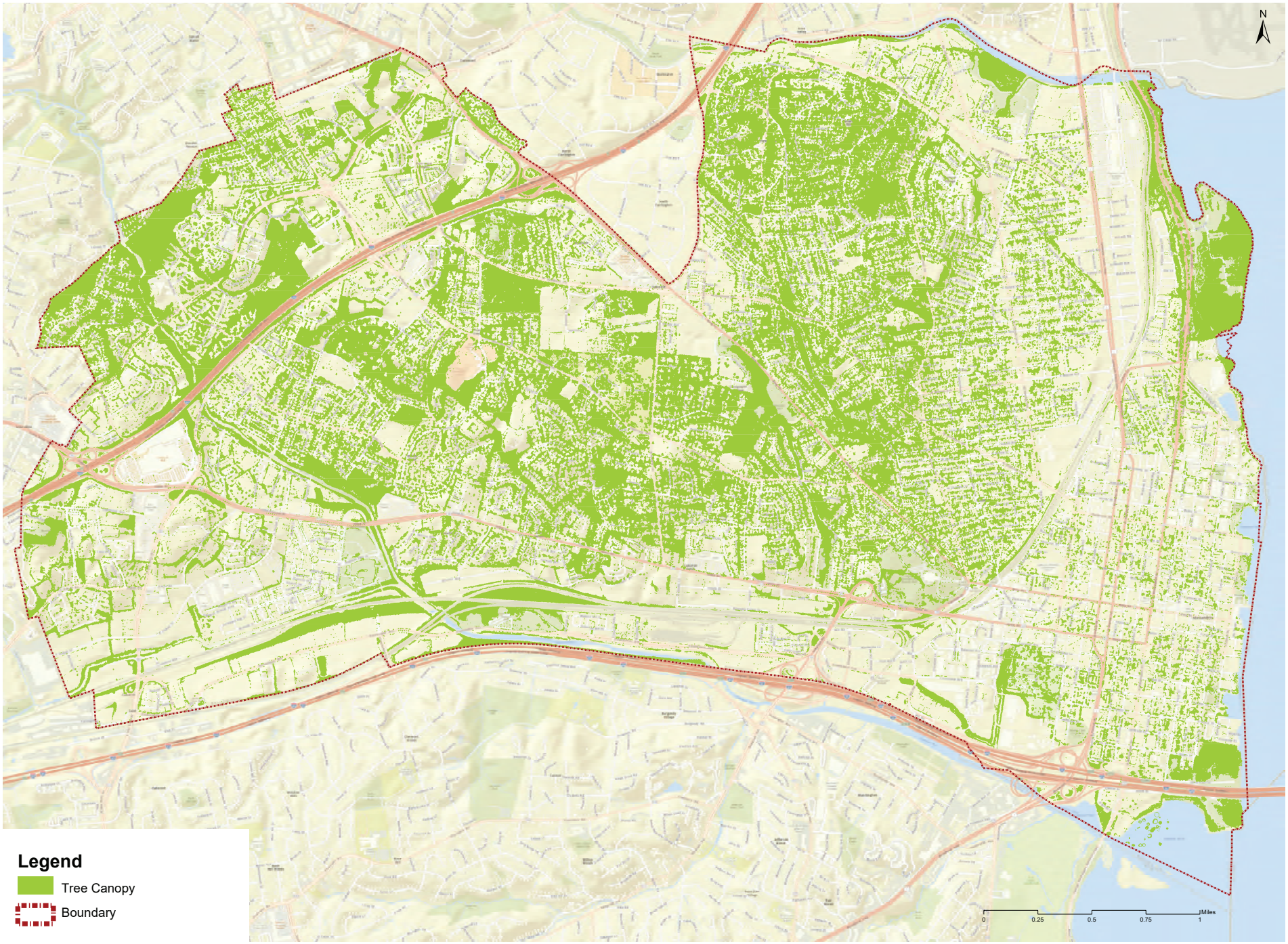
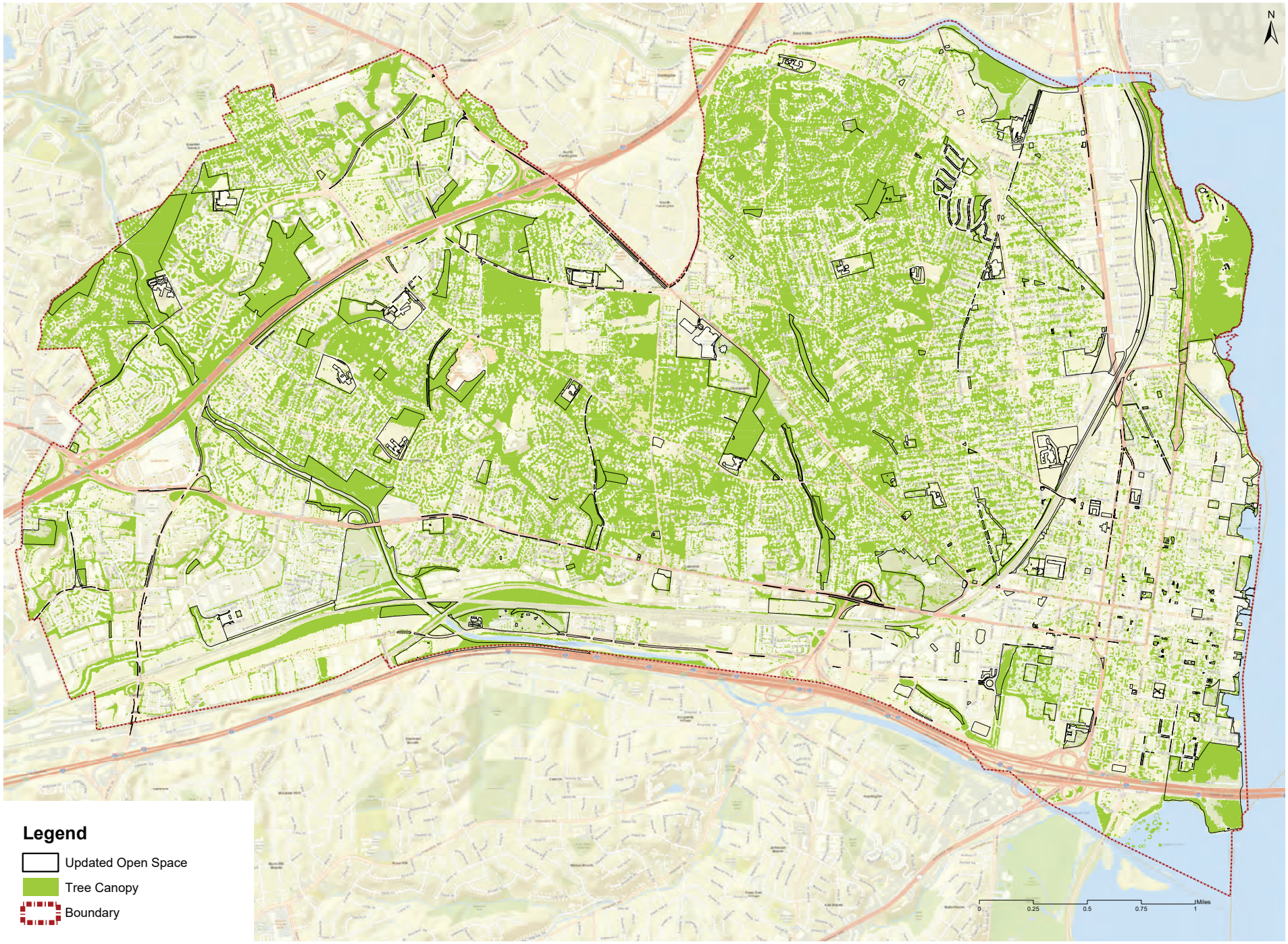


Figure 21. Tree Canopy & Open Space



Proposed and Committed Open Space through the Small Area Plans

This map summarizes open space proposals and commitments discussed in individual Small Area Plans developed or updated since 2001. These include:

- Beauregard Small Area Plan
- Braddock Road Metro Station Small Area Plan
- Eisenhower East Small Area Plan
- Eisenhower West Small Area Plan
- North Potomac Yard Small Area Plan
- Oakville Triangle Small Area Plan Overlay (Potomac West Small Area Plan)
- Arlandria Overlay (Potomac West Small Area Plan)
- Upper Potomac West (Potomac West Small Area Plan)
- Landmark/Van Dorn Corridor Plan Overlay

These plans illustrate open space expansions and enhancements. The mapped areas represent future opportunity in additional open space. Prior acreage calculations of protected open space have included some of these properties prior to their development. The 2014 Typology listings also included some parcels that were promised in various SAPs but had not yet been developed. The 2017 Typology excludes properties that are not yet developed. Undeveloped, but promised open space improvements and contributions are included in the SAP figure, as noted in Figure 2.

SAP illustrations and plan text varies in the degree of precision and explicit direction for type and location of future open space. It is important to remember that these are mere guidelines for future development rather than concrete plans. While some plans have specific required acreage and specific sites, most are suggested options for recommended open space. As the SAPs are guide plans for future development, exact locations, forms, shapes and sizes of the proposed open space may shift during the development process.

SAP plans adopted prior to 2001 are not included in this compilation.

Enlargement of Small Area Plan mapping showing the Landmark /Van Dorn Corridor Plan; light green indicates potential acquisition, bright green indicates proposed new open space; and dark green indicates enhanced open space, light blue indicates the Landmark/Van Dorn Corridor Plan Overlay

Data Layer Construction and Notes

Map Layers
City of Alexandria Small Area Plans - transcribed to new data layer
Base map (not included in legend)
Boundary

Attribute Table(s)
Type of Open Space

Figure 22. Small Area Plans Map Enlargement

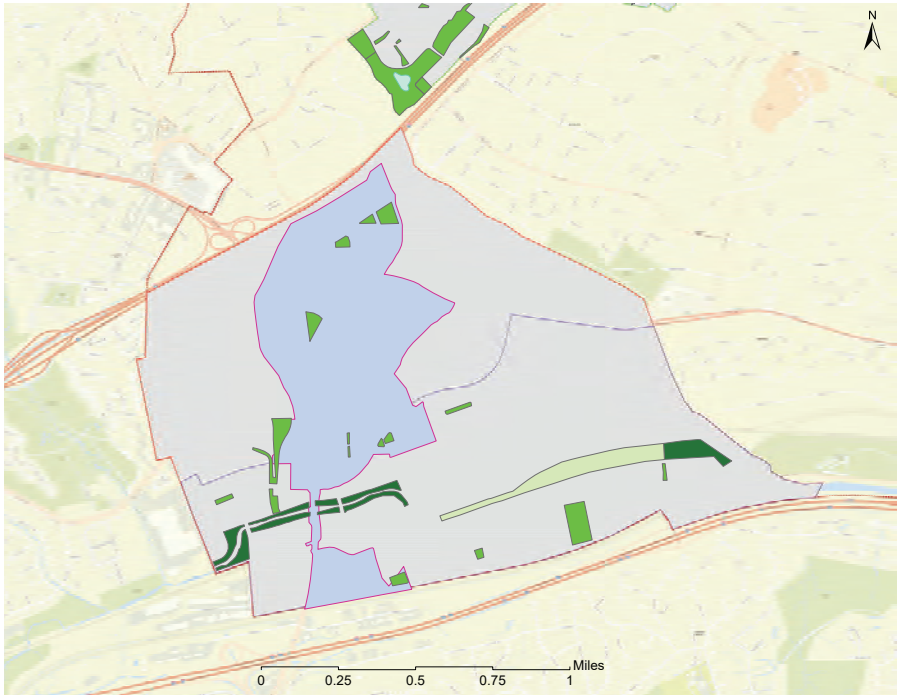
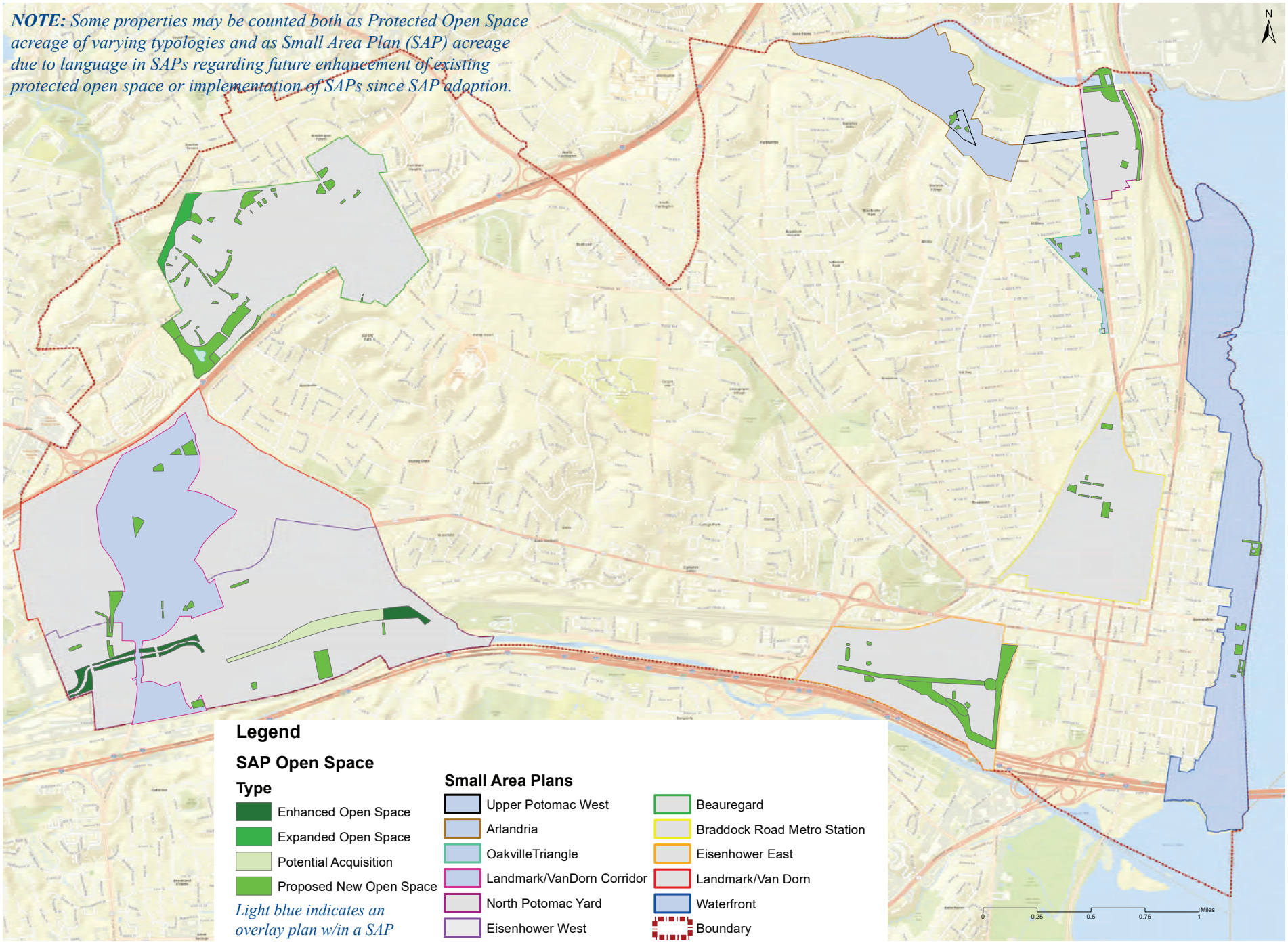


Figure 23. Small Area Plan (SAP) Open Space



City Base

This map is the City of Alexandria's GIS produced existing open space plan as of 2016.

Data Layer Construction and Notes

Map Layers
City of Alexandria Open Space Data
Base map (not included in legend)
Boundary

Attribute Table(s)
Type of Open Space

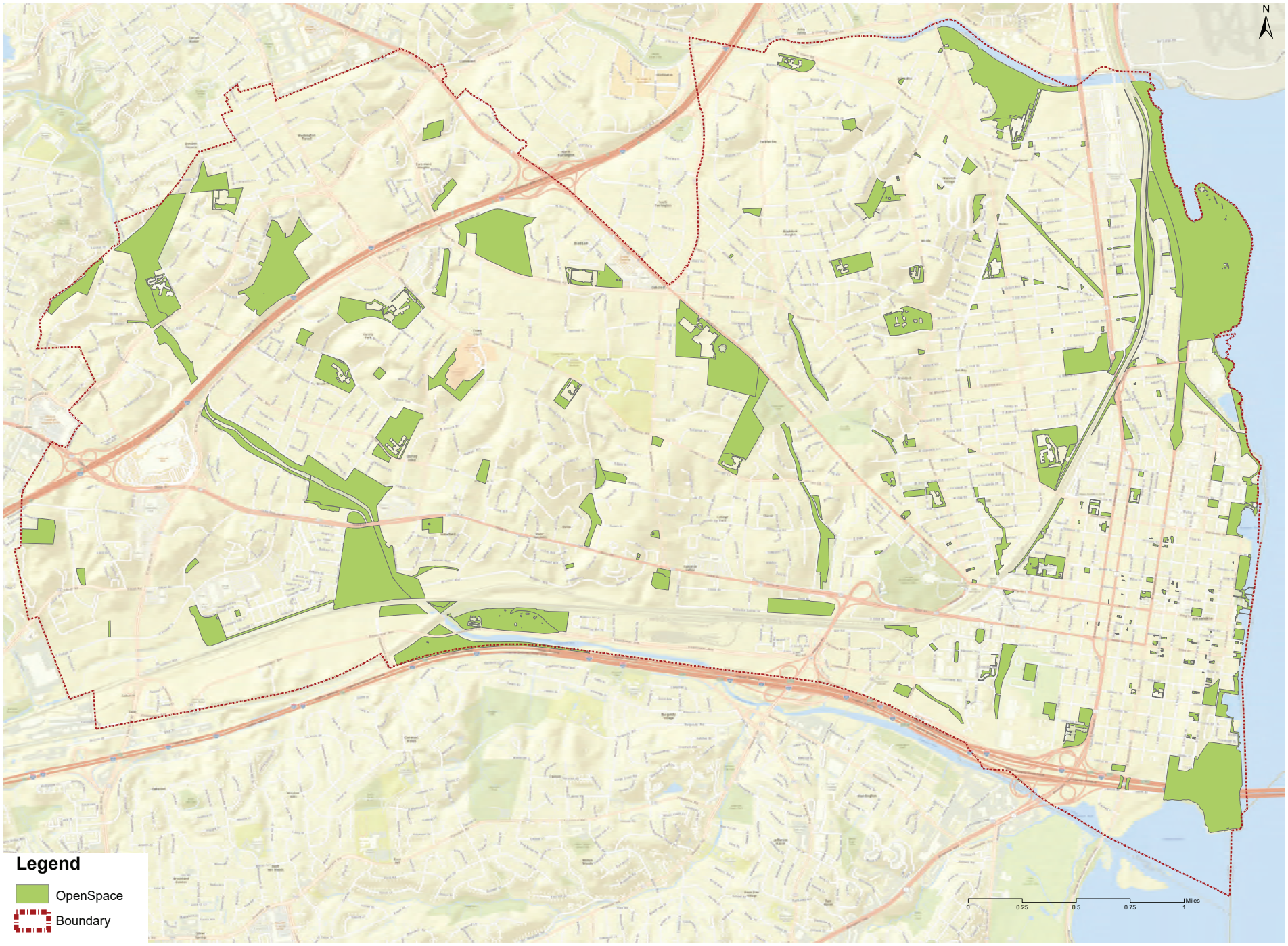



Figure 24. City Base