Is There Room For Another Elementary School In Lynn, Massachusetts?

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GGR320

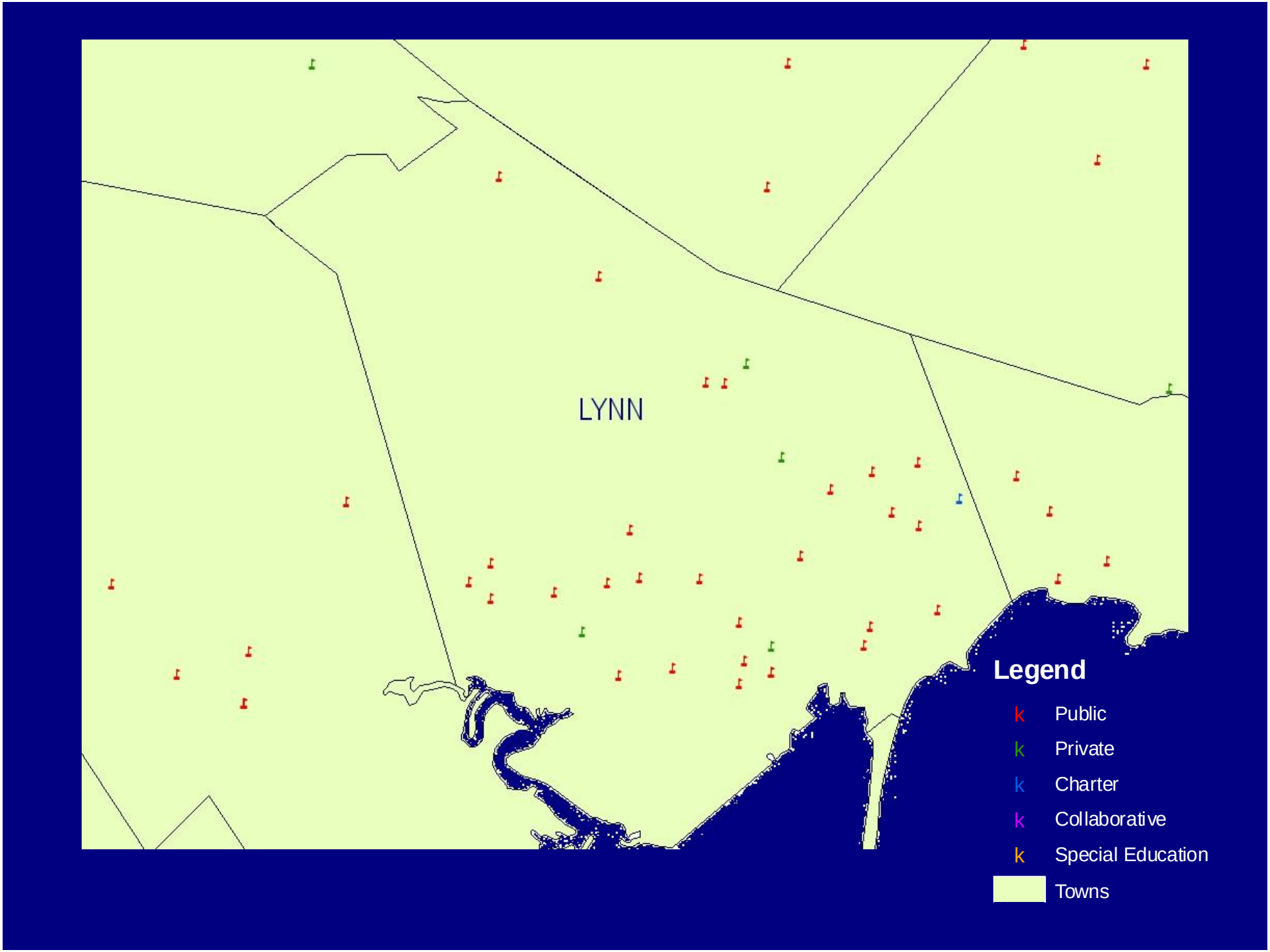
Geographic Information Systems

CRITERIA

- 2 ½ Acres (Minimum)
- Within certain zoning areas
  - Central Business
  - General Business
  - Limited Business
  - Light Industrial
- Not within 1000 feet of another school
- Within certain land use areas
  - Open land
  - Commercial
  - Industrial
  - Urban Open

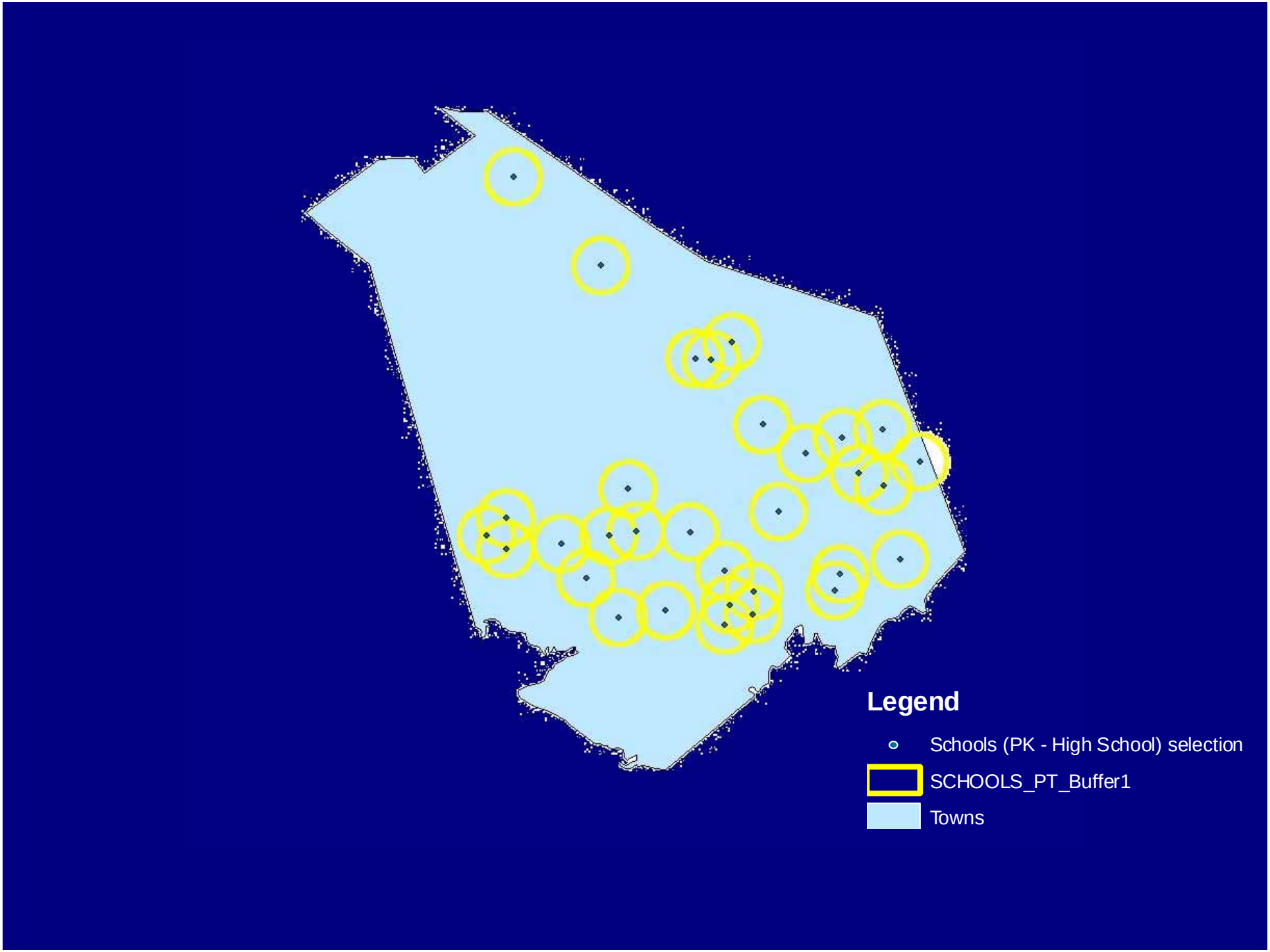
METHODOLOGY

- Download a layer of each city/town in Massachusetts
- Download a layer of schools for each city/town
- Zoomed straight into Lynn


LYNN
Legend
Public
Private
Charter
Collaborative
Special Education
Towns

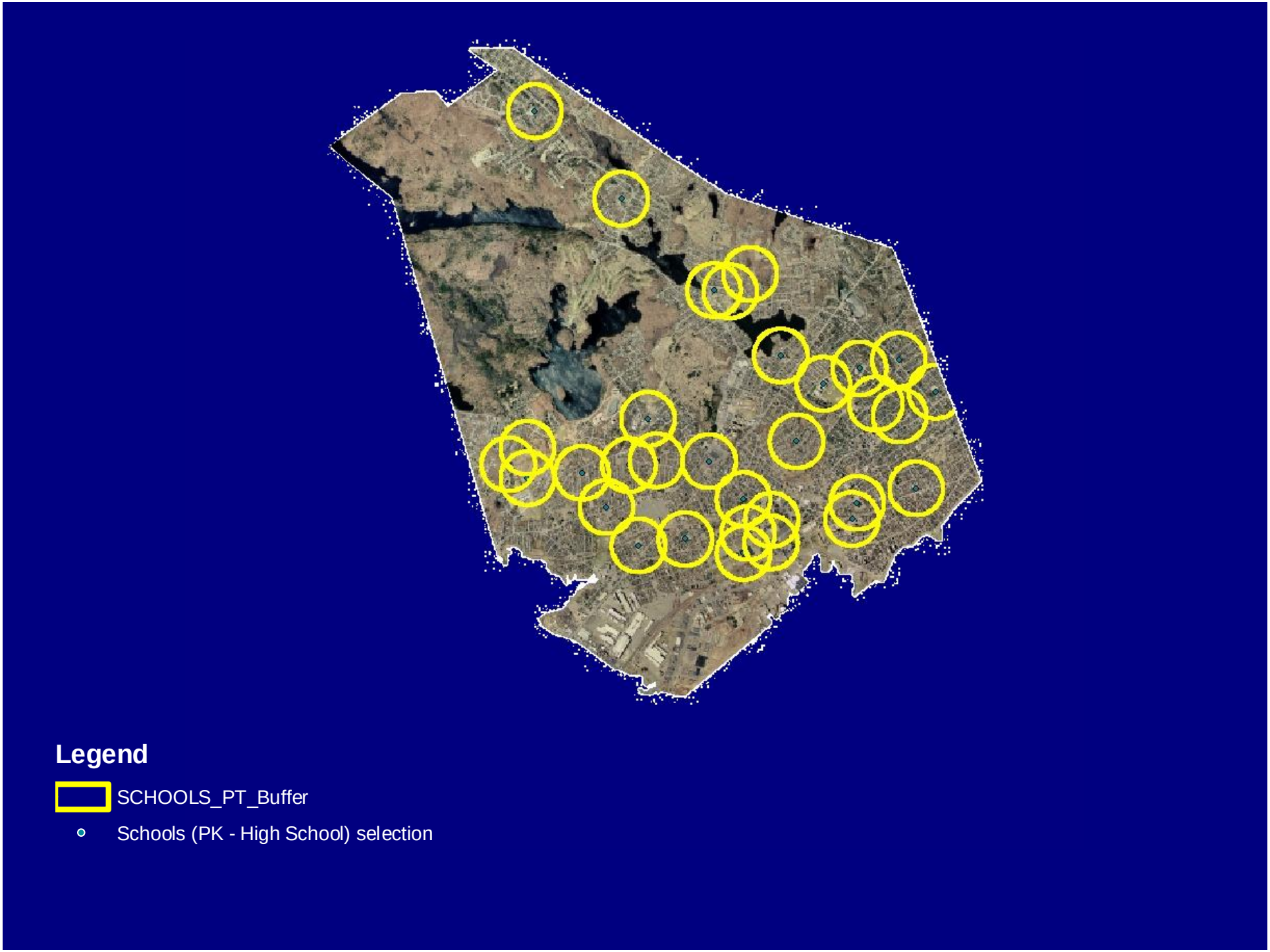
METHODOLOGY

- Create a layer of just Lynn with each school
- Create a buffer of 1000 feet around each of the schools


Legend
Schools (PK - High School) selection
SCHOOLS_PT_Buffer1
Towns

METHODOLOGY

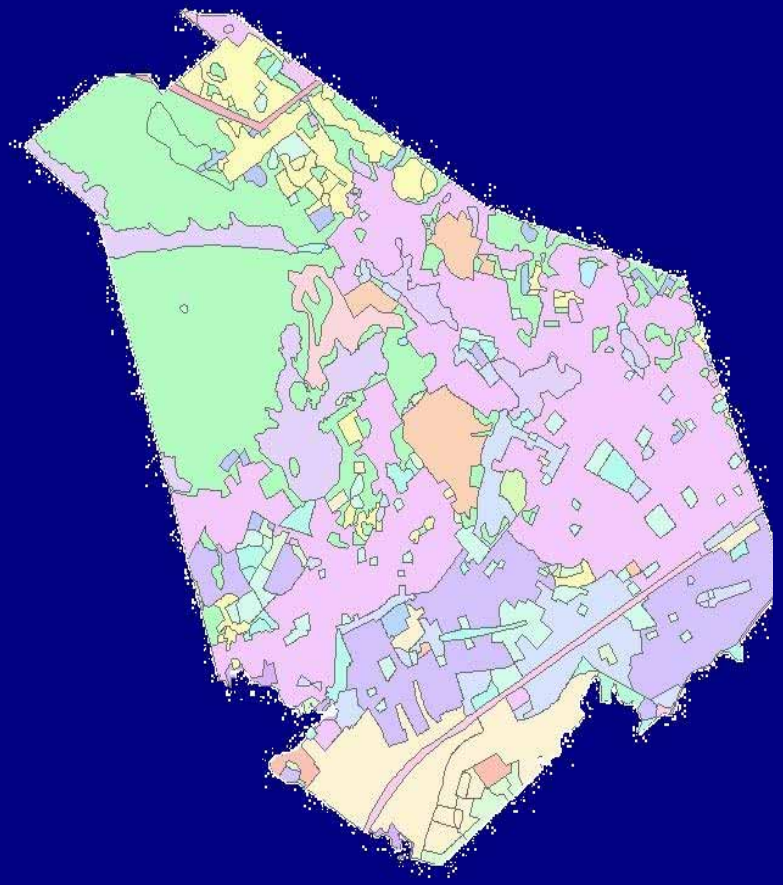
- Add an aerial photo of the area
  - 1:5,000 color ortho imagery
- Get rid of out outside areas, leaving only Lynn

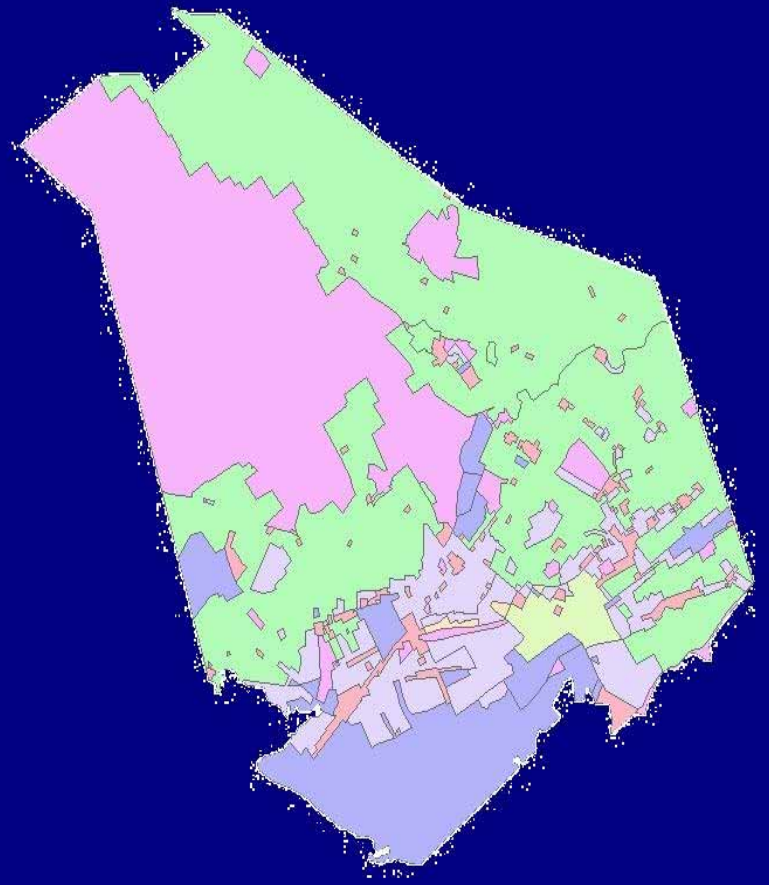

Legend
SCHOOLS_PT_Buffer
Schools (PK - High School) selection

METHODOLOGY

- Download the zoning layer & query which zoning areas could be included
  - Central Business
  - General Business
  - Limited Business
  - Light Industrial
- Download the land use layer & query which land use areas could be used
  - Open land
  - Commercial
  - Industrial
  - Urban Open

LAND USE



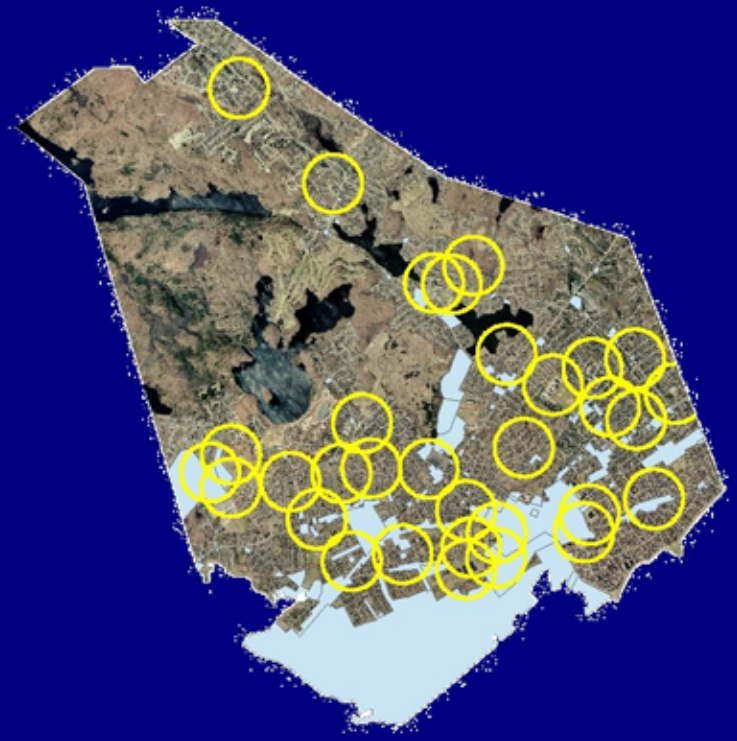


ZONING

Legend

SCHOOLS_PT_Buffer

lus163 selection 2



Legend

SCHOOLS_PT_Buffer

zn163p1 selection 2

METHODOLOGY

- Intersect the land use and zoning layers
- This gives the areas in the city that qualify for the land use and zoning criteria


Legend
SCHOOLS_PT_Buffer
zn163p1_Intersect1 selection

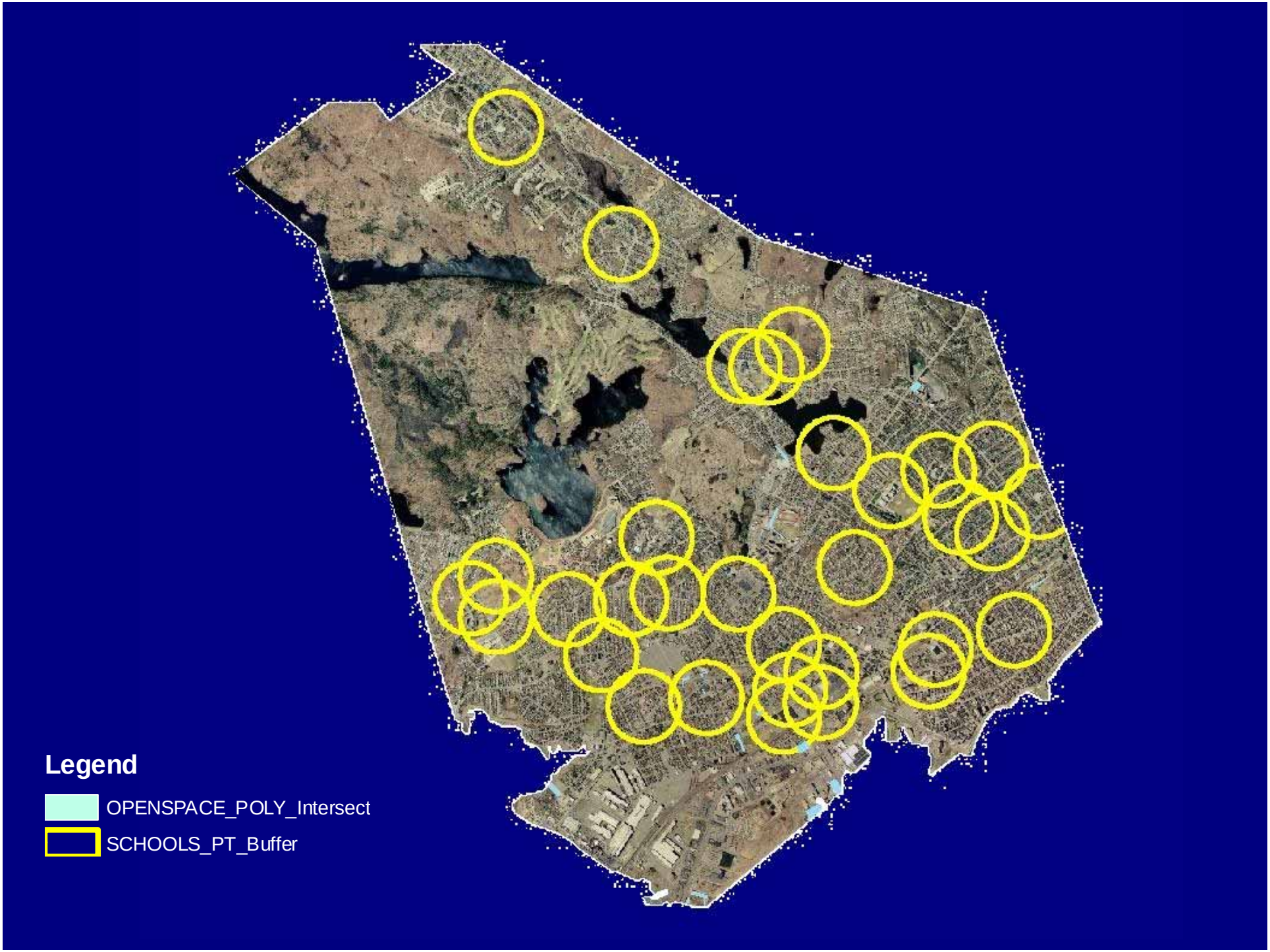
METHODLOGY

- Query by the acres of land >2.5
- Create a layer where the land use and zoning areas are greater than 2.5 acres


Legend
SCHOOLS_PT_Buffer
zn163p1_Intersect1 selection

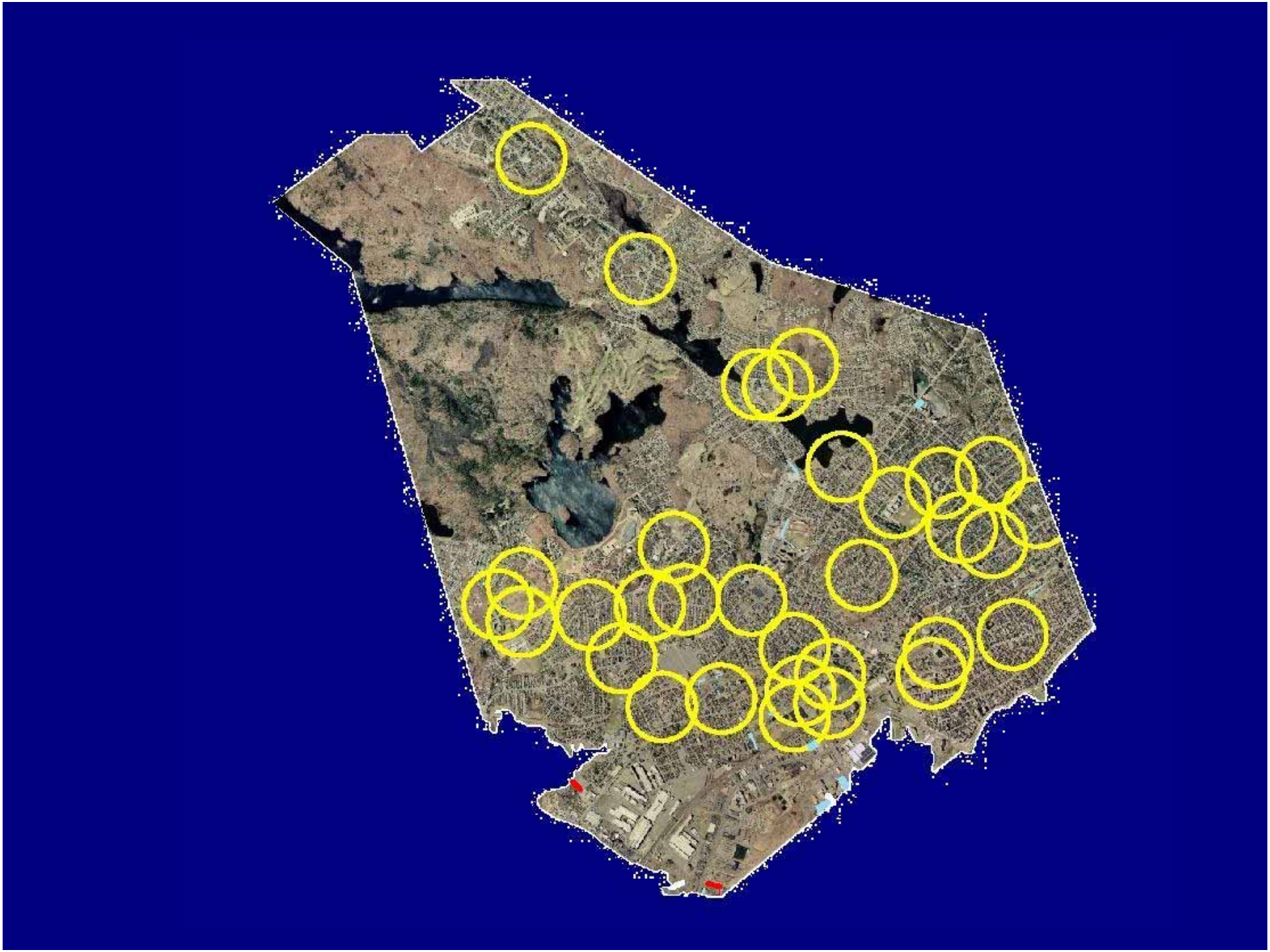
METHODOLOGY

- Download Open Space Layer
- Intersect the open space layer with the zoning and land use intersect layer
- Zoom into each resulting area
- Visually pick best area of where a school could go


Legend
OPENSPACE_POLY_Intersect
SCHOOLS_PT_Buffer

METHODOLOGY

- Some areas already had buildings
- Other areas looked like parking lots
- There were two areas where a school could go



CONCLUSION

- Area consisted of open space
- Was not within 1000 feet of another school
- Met land use criteria
- Met zoning criteria
- Can be leveled to accommodate a school