

# Appendix B: Example Calculation

## Guidelines for Calculating General Land Area Minimum

January 17, 2018

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### Introduction

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This document, *Appendix B: Example Calculation*, includes an example calculation to supplement the *Guidelines for Calculating General Land Area Minimum* and to provide illustrations of what the *Technical Instructions* provided in Appendix A should yield. This Example Calculation is based on a fictionalized municipality called Landborough.

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### Step 1: Identify SHI Sites

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- 1.1. Create a list of SHI Sites.
- 1.2. Join the SHI Sites list to digital parcels to create the SHI Sites Submission List.
- 1.3. Provide the SHI Sites Submission List to DHCD for the Group Homes Acreage Calculation.

The SHI Sites Submission List will look similar to **Identify SHI Sites**

**Figure 1.** The initial GIS workspace will look similar to the map in **Figure 2**.

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### Step 2: Calculate Total Land Area

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- 2.1. Dissolve parcels to create municipal boundary and calculate total land parcel acreage.
- 2.2. Identify water bodies.
- 2.3. Provide locations of Previously-Registered Inland Wetlands, if applicable.
- 2.4. Identify areas where residential, commercial, or industrial use is prohibited.
- 2.5. Combine all non-parcel-based Excluded Areas.
- 2.6. Create the Total Land Area file to begin removing excluded areas step-by-step.
- 2.7. Remove non-parcel-based Excluded Areas from Total Land Area.
- 2.8. Remove *publicly-owned rights-of-way* controlled by the United States, the Commonwealth of Massachusetts, or any Political Subdivision thereof.
- 2.9. Remove *fee parcels and other land parcels* owned by the United States, the Commonwealth of Massachusetts, or any Political Subdivisions thereof.
- 2.10. Calculate Total Land Area.

Water bodies are shown in **Calculate Total Land Area**

**Figure 3.** Water bodies along with areas where residential, commercial, and industrial development are prohibited are shown in **Figure 4**. The areas identified in steps 2.1, 2.2, and 2.3 are generally not based on parcel boundaries. These are combined into a single feature class in Step 2.4 using the Union function, and then are excluded from Total Land Area as part of the step-by-step process described in steps 2.5 and 2.6. **Figure 5** shows steps 2.6, the union of non-parcel-based excluded areas, and the first part of step 2.7 the identification of public-rights-of-way. **Figure 6** shows the removal of public-rights-of-way and the identification of publicly-owned parcels in addition to those already identified as public-rights-of-way. It also shows Housing Authority properties that contain SHI-Eligible Housing Units as part of the publicly-owned parcels. SHI-Eligible Housing Authority properties cannot be excluded from Total Land Area, and as such, the necessary modifications to the definition query are shown. **Figure 7** shows Total Land Area parcels once all exclusions have been made. The results of merging the Total Land Area file is shown in **Figure 8**. From this layer, the acreage for Total Land Area can be calculated. For Landborough, the entire land area of the parcels within the municipal boundary is 6,837 acres. Total Land Area in Landborough, once all of the exclusions have been made, is 3,871 acres. This could change after the Group Homes Acreage Calculation has been provided.

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### Step 3: Calculate SHI Eligible Area

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- 3.1. Remove any areas that are not Directly Associated Areas from SHI Site area.
- 3.2. Review SHI Sites for any overlap with exclusions.
- 3.3. Calculate the SHI-Eligible Area (not yet prorated).
- 3.4. Calculate prorated SHI-Eligible Area.

#### Calculate SHI Eligible Area

Figures 9-19 are illustrations of various scenarios for SHI Sites, and show how areas that are not Directly Associated Areas shall be removed from each SHI Site as applicable as described in step 3.1 and reviewed for any overlap with exclusions as described in step 3.2. Step 3.2 requires maps of each site be included in the submittal, and Figures 9-19 are examples of these maps. The calculations of SHI-Eligible Area are shown in the table in Figure 20, as described in steps 3.3 and 3.4.

**Figure 9, Figure 10, Figure 11, Figure 12, Figure 13, Figure 14, Figure 15, Figure 16, Figure 17, Figure 18, and Figure 19** show each of the SHI Sites in Landborough, edited for wetlands and vegetation.

**Figure 20** shows the additional calculations needed to pro-rate the SHI-Eligible Area and finalize the acreage for each SHI Site excepting group homes acreage.

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### Step 4: Calculate Results

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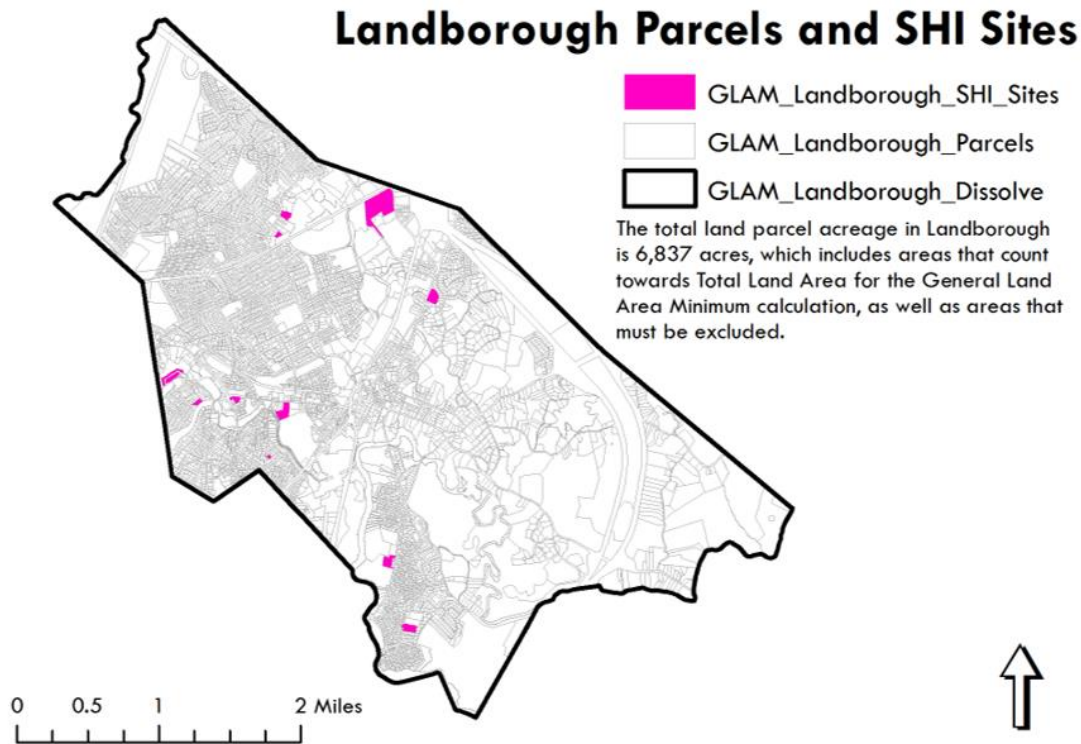
- 4.1. Calculate results and preliminary determination of 1.5% General Land Area Minimum.  
 $42.5253771 \text{ acres} / 3,871 \text{ acres} = 1.099\%$

## Step 1: Identify SHI Sites

**Figure 1:** In Step 1.1, the SHI Sites Submission List will be created.

MuniName	DHCD_ID	ProjName	Address	SHI_Units	Tenure	NumParcels	LOC_ID
Landborough	LB01	Housing Authority Rental Subdivision A	Mapletree Road	80	Rental	21	F_XXXXXX_XXXX001
Landborough	LB01	Housing Authority Rental Subdivision A	Mapletree Road	80	Rental	21	F_XXXXXX_XXXX002
Landborough	LB01	Housing Authority Rental Subdivision A	Mapletree Road	80	Rental	21	F_XXXXXX_XXXX003
Landborough	LB01	Housing Authority Rental Subdivision A	Mapletree Road	80	Rental	21	F_XXXXXX_XXXX004
Landborough	LB01	Housing Authority Rental Subdivision A	Mapletree Road	80	Rental	21	F_XXXXXX_XXXX005
Landborough	LB01	Housing Authority Rental Subdivision A	Mapletree Road	80	Rental	21	F_XXXXXX_XXXX006
Landborough	LB01	Housing Authority Rental Subdivision A	Mapletree Road	80	Rental	21	F_XXXXXX_XXXX007
Landborough	LB01	Housing Authority Rental Subdivision A	Mapletree Road	80	Rental	21	F_XXXXXX_XXXX008
Landborough	LB01	Housing Authority Rental Subdivision A	Mapletree Road	80	Rental	21	F_XXXXXX_XXXX009
Landborough	LB01	Housing Authority Rental Subdivision A	Mapletree Road	80	Rental	21	F_XXXXXX_XXXX010
Landborough	LB01	Housing Authority Rental Subdivision A	Mapletree Road	80	Rental	21	F_XXXXXX_XXXX011
Landborough	LB01	Housing Authority Rental Subdivision A	Mapletree Road	80	Rental	21	F_XXXXXX_XXXX012
Landborough	LB01	Housing Authority Rental Subdivision A	Mapletree Road	80	Rental	21	F_XXXXXX_XXXX013
Landborough	LB01	Housing Authority Rental Subdivision A	Mapletree Road	80	Rental	21	F_XXXXXX_XXXX014
Landborough	LB01	Housing Authority Rental Subdivision A	Mapletree Road	80	Rental	21	F_XXXXXX_XXXX015
Landborough	LB01	Housing Authority Rental Subdivision A	Mapletree Road	80	Rental	21	F_XXXXXX_XXXX016
Landborough	LB01	Housing Authority Rental Subdivision A	Mapletree Road	80	Rental	21	F_XXXXXX_XXXX017
Landborough	LB01	Housing Authority Rental Subdivision A	Mapletree Road	80	Rental	21	F_XXXXXX_XXXX018
Landborough	LB01	Housing Authority Rental Subdivision A	Mapletree Road	80	Rental	21	F_XXXXXX_XXXX019
Landborough	LB01	Housing Authority Rental Subdivision A	Mapletree Road	80	Rental	21	F_XXXXXX_XXXX020
Landborough	LB01	Housing Authority Rental Subdivision A	Mapletree Road	80	Rental	21	F_XXXXXX_XXXX021
Landborough	LB02	Housing Authority Rental Subdivision B	Blueberry Street	26	Rental	15	F_XXXXXX_XXXX022
Landborough	LB02	Housing Authority Rental Subdivision B	Blueberry Street	26	Rental	15	F_XXXXXX_XXXX023
Landborough	LB02	Housing Authority Rental Subdivision B	Blueberry Street	26	Rental	15	F_XXXXXX_XXXX024
Landborough	LB02	Housing Authority Rental Subdivision B	Blueberry Street	26	Rental	15	F_XXXXXX_XXXX025
Landborough	LB02	Housing Authority Rental Subdivision B	Blueberry Street	26	Rental	15	F_XXXXXX_XXXX026
Landborough	LB02	Housing Authority Rental Subdivision B	Blueberry Street	26	Rental	15	F_XXXXXX_XXXX027
Landborough	LB02	Housing Authority Rental Subdivision B	Blueberry Street	26	Rental	15	F_XXXXXX_XXXX028
Landborough	LB02	Housing Authority Rental Subdivision B	Blueberry Street	26	Rental	15	F_XXXXXX_XXXX029
Landborough	LB02	Housing Authority Rental Subdivision B	Blueberry Street	26	Rental	15	F_XXXXXX_XXXX030
Landborough	LB02	Housing Authority Rental Subdivision B	Blueberry Street	26	Rental	15	F_XXXXXX_XXXX031
Landborough	LB02	Housing Authority Rental Subdivision B	Blueberry Street	26	Rental	15	F_XXXXXX_XXXX032
Landborough	LB02	Housing Authority Rental Subdivision B	Blueberry Street	26	Rental	15	F_XXXXXX_XXXX033
Landborough	LB02	Housing Authority Rental Subdivision B	Blueberry Street	26	Rental	15	F_XXXXXX_XXXX034
Landborough	LB02	Housing Authority Rental Subdivision B	Blueberry Street	26	Rental	15	F_XXXXXX_XXXX035
Landborough	LB02	Housing Authority Rental Subdivision B	Blueberry Street	26	Rental	15	F_XXXXXX_XXXX036
Landborough	LB03	Housing Authority Rental Development A	Common Avenue	25	Rental	1	F_XXXXXX_XXXX037
Landborough	LB04	Housing Authority Rental Development B	Broad Street & Pleasant Avenue	24	Rental	1	F_XXXXXX_XXXX038
Landborough	LB05	Housing Authority Rental Development C	Oakview Drive	100	Rental	1	F_XXXXXX_XXXX039
Landborough	LB06	Housing Authority Rental Development D	98 Lincoln Drive	8	Rental	1	F_XXXXXX_XXXX040
Landborough	LB07	Housing Authority Rental Development E	Swan Circle	80	Rental	1	F_XXXXXX_XXXX041
Landborough	LB08	Heritage of Landborough Assisted and Independent Living	789 Bay Street	95	Rental	1	F_XXXXXX_XXXX042
Landborough	LB09	Roosevelt Crossing	1000 Roosevelt Avenue	300	Rental	1	F_XXXXXX_XXXX043
Landborough	LB10	Evermore Station Apartments	Aspen Street and Emerson Road	285	Rental	1	F_XXXXXX_XXXX044
Landborough	LB11	Lilac Lane Multifamily	Lilac Lane	3	Rental	1	F_XXXXXX_XXXX045
Landborough	LB12	BoroBrook Condominiums	453 West Street	15	Ownership	1	F_XXXXXX_XXXX046

**Figure 2:** In step 1.2, the Analyst will locate the SHI Sites and match them to parcels in GIS. Step 1.3, providing the SHI Sites Submission List to DHCD for the Group Homes Acreage Calculation, may be completed after this step. Then, in step 2.1, the municipal boundary will be created by dissolving the parcels into a single feature, and the total land parcel acreage will be calculated based on the municipal boundary.

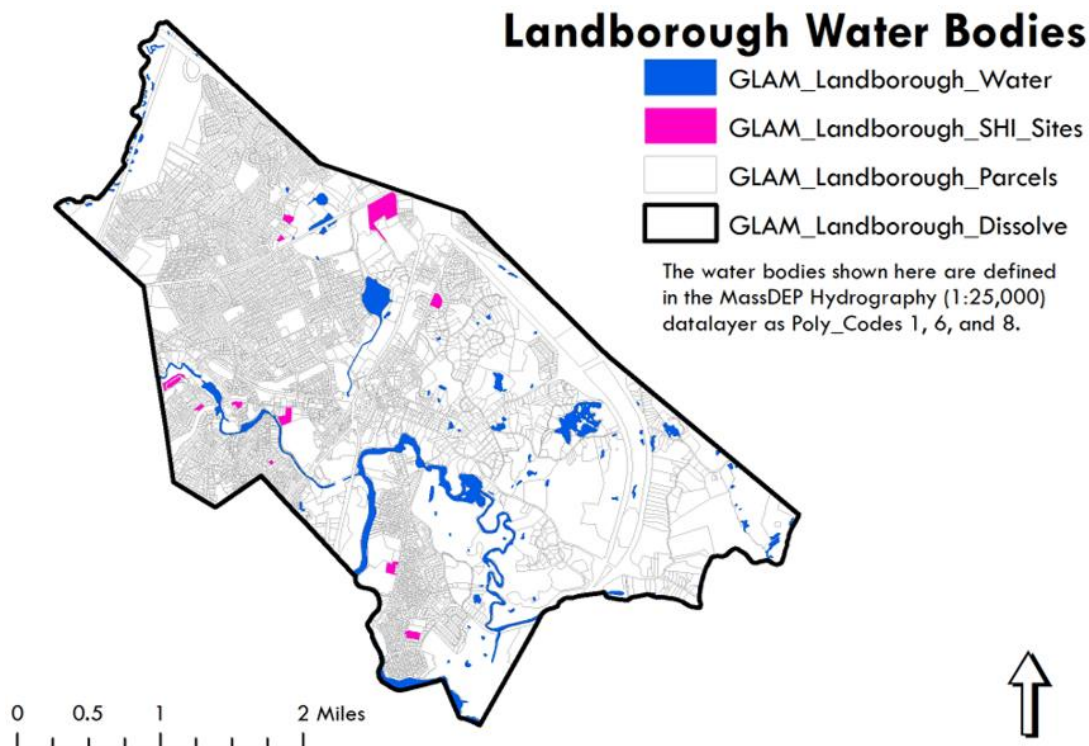



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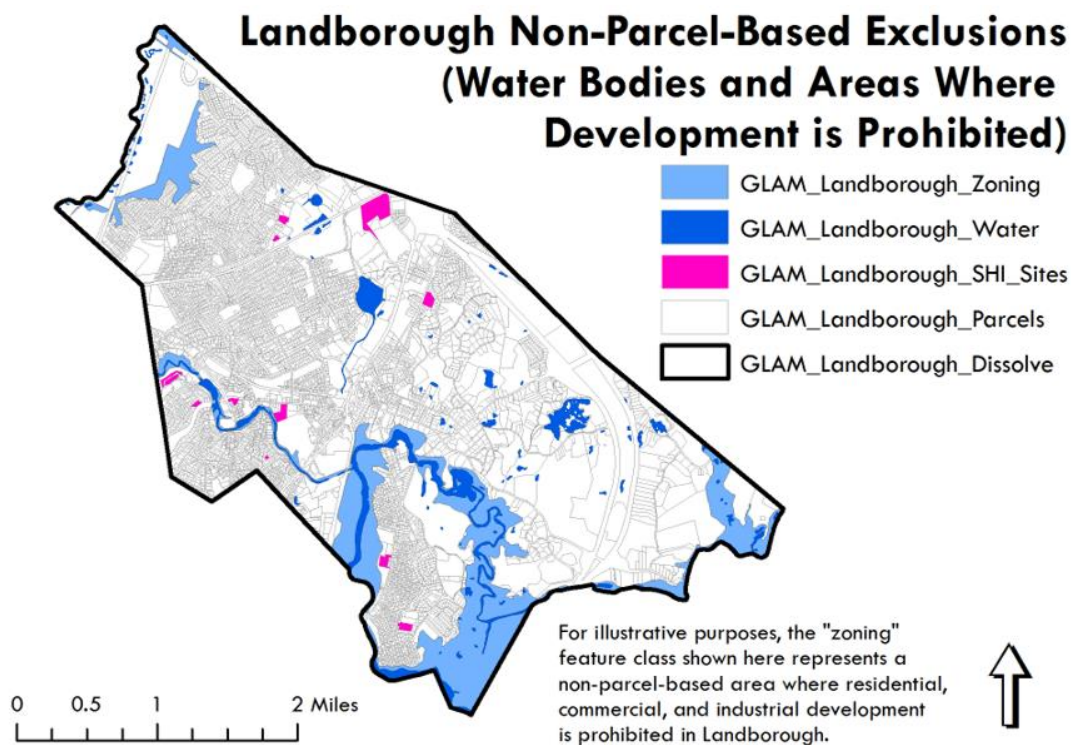
## Step 2: Calculate Total Land Area

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**Figure 3:** After step 2.1 is completed as described in Figure 3, water bodies are identified in step 2.2.



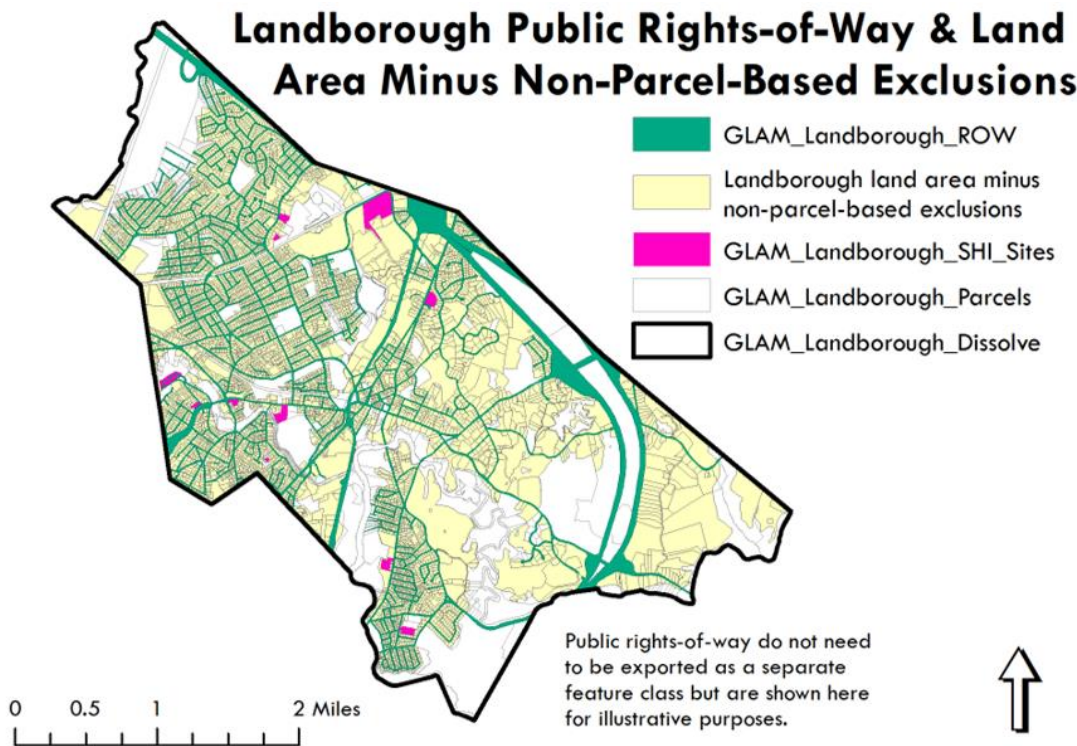
**Figure 4:** An example of how additional non-parcel-based areas can be added as additional feature classes, such as Previously Registered Inland Wetlands as described in step 2.3 or certain zoning districts/areas where residential, commercial, or industrial use is prohibited as described in step 2.4 feature class. In the map below, these are identified as a single layer called “GLAM\_Landborough\_Zoning”, though if the municipality has both a Previously Registered Inland Wetland *and* zoning districts where development is prohibited, both feature classes and accompanying documentation must be provided. Following steps 2.2, 2.3, and 2.4, these feature classes are combined into a single feature class using the Union function as described in step 2.5 and removed from Total Land Area as described in steps 2.6 and 2.7.



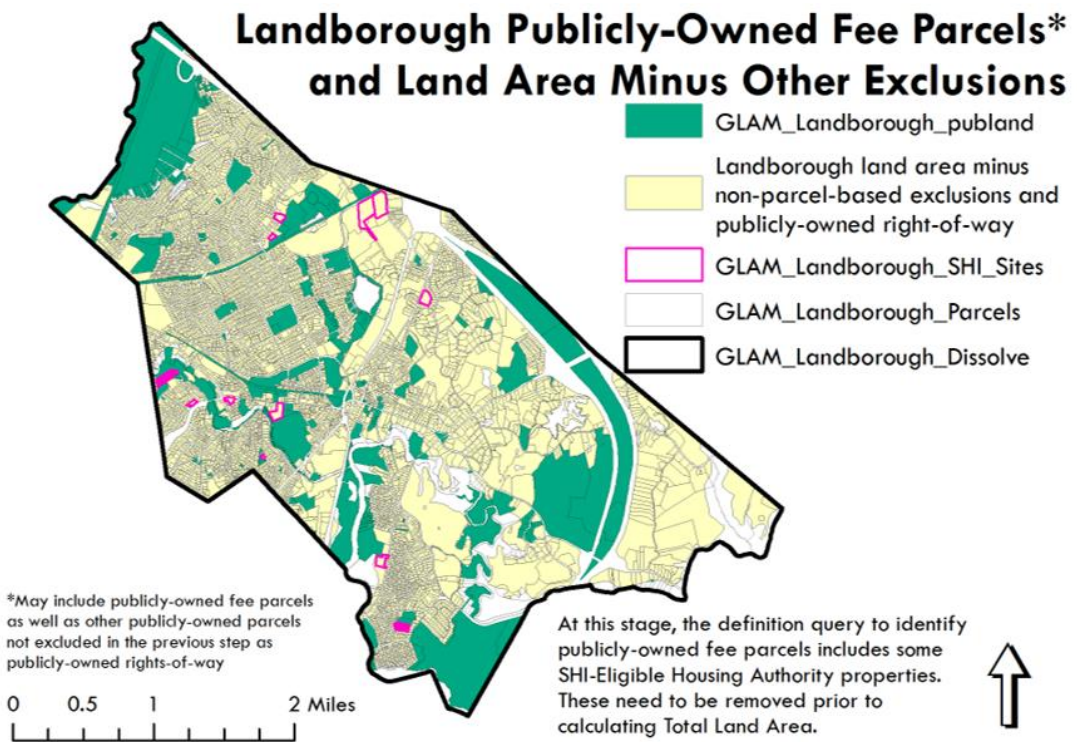
**Figure 5:** The results of steps 2.5, 2.6, and 2.7 are shown in the map below as “Landborough land area minus non-parcel-based exclusions”. Step 2.8, the identification of publicly-owned rights-of-way, is shown as



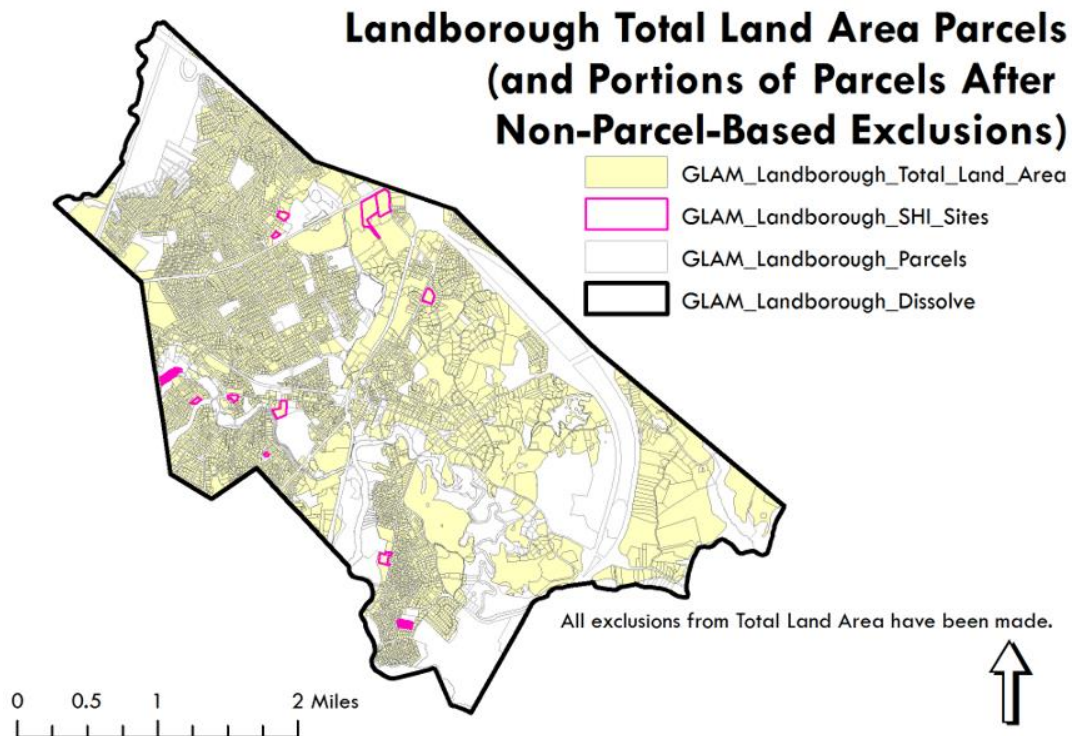
“GLAM\_Landborough\_ROW”, although the creation of a separate feature class for publicly-owned rights-of-way is not required. It is shown here to show how the step-by-step exclusion of land area would be done in GIS.



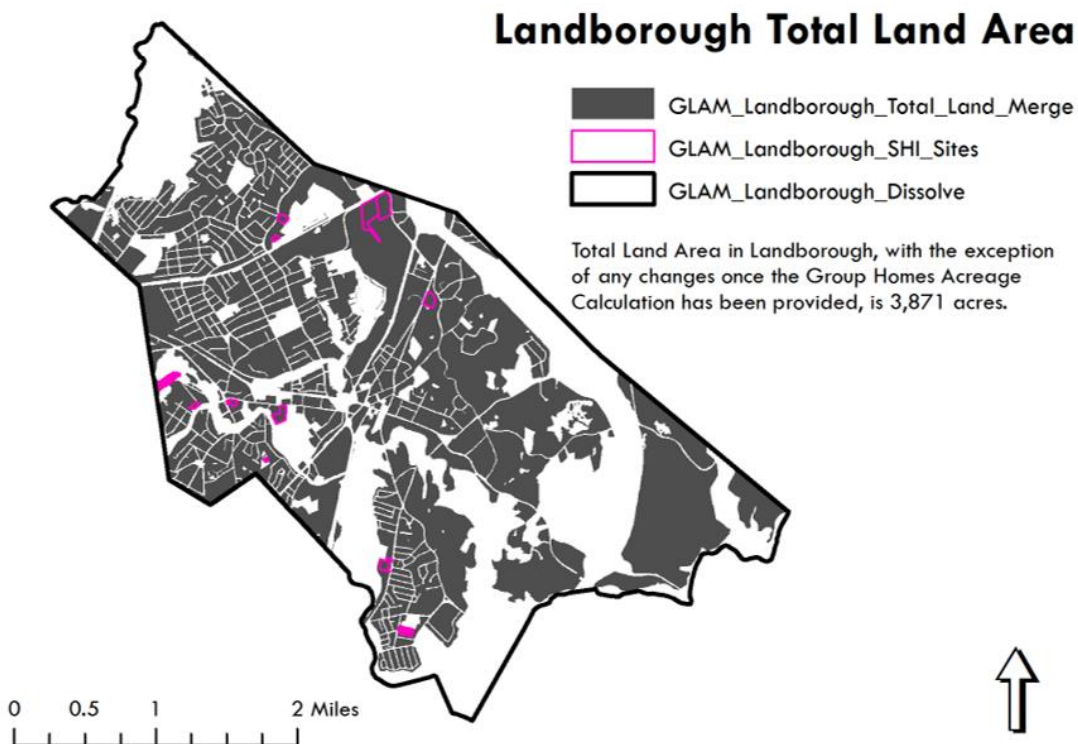
**Figure 6:** Step 2.9 includes the steps for removing publicly-owned fee parcels and other publicly-owned parcels not excluded in step 2.8 as publicly-owned rights-of-way. As shown here, the publicly-owned fee parcels still include SHI-Eligible Housing Authority Properties, which would need to be removed prior to calculating Total Land Area.



**Figure 7:** After all parts of step 2.9 have been completed, the result will be the parcels, and portions of parcels, that make up Total Land Area, as shown here.



**Figure 8:** Total Land Area is calculated by merging the Total Land Area parcels into a single attribute and then calculating the resulting acreage, as described in step 2.10.

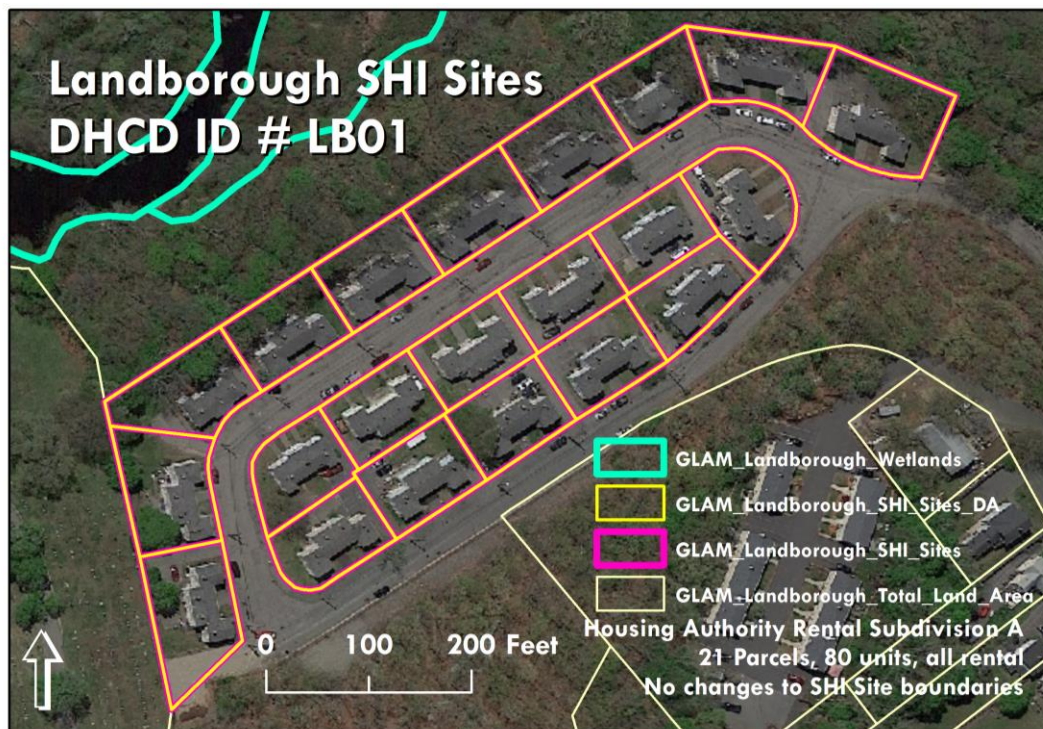




### Step 3: Calculate SHI Eligible Area

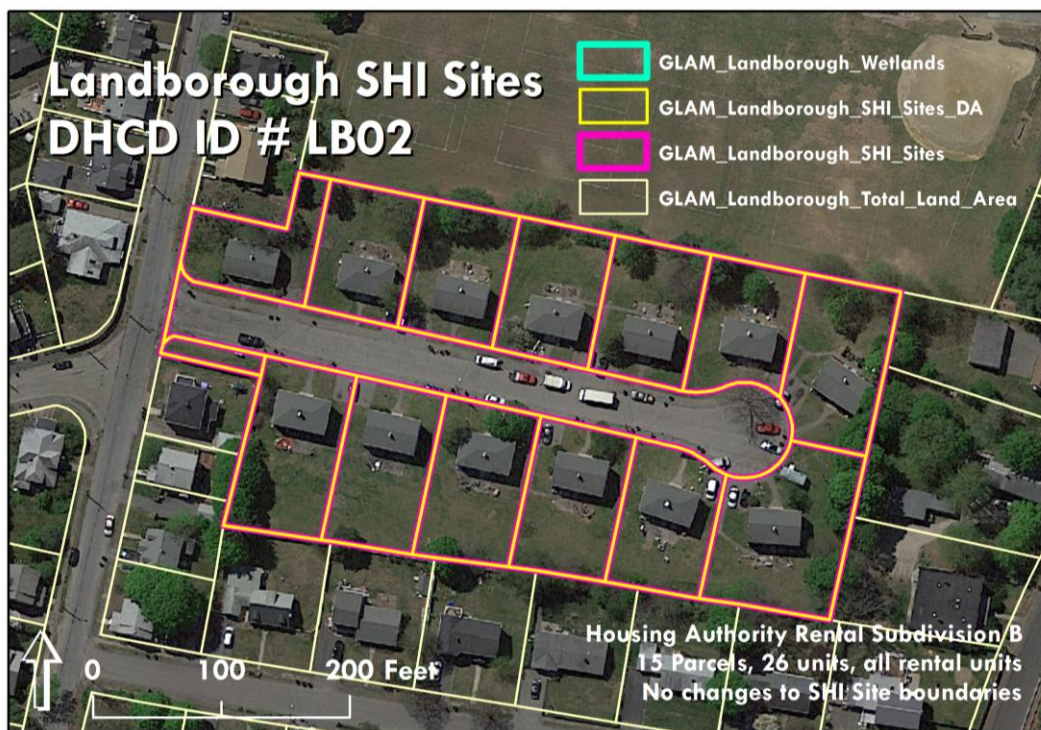
Figures 9-19 are illustrations of various scenarios for SHI Sites, and show how areas that are not Directly Associated Areas shall be removed from each SHI Site as applicable as described in step 3.1 and reviewed for any overlap with exclusions as described in step 3.2. Step 3.2 requires maps of each site be included in the submittal, and Figures 9-19 are examples of these maps. The calculations of SHI-Eligible Area are shown in the table in Figure 20, as described in steps 3.3 and 3.4.

**Figure 9:** The first SHI development in the SHI Sites list is Housing Authority Rental Subdivision A. None of the parcels in this subdivision overlap with wetlands, and all land within the parcels appears to be Directly Associated with the SHI-Eligible Housing Units.





**Figure 10:** Housing Authority Rental Subdivision B. An interior roadway parcel and a small parcel not containing any housing are part of the SHI development and can be considered Directly Associated with the SHI-Eligible Housing Units. The land within each parcel also appears to be Directly Associated.



**Figure 11:** A single-parcel rental Housing Authority rental development with 25 SHI-Eligible Housing Units. No changes were made to the SHI Site boundaries.

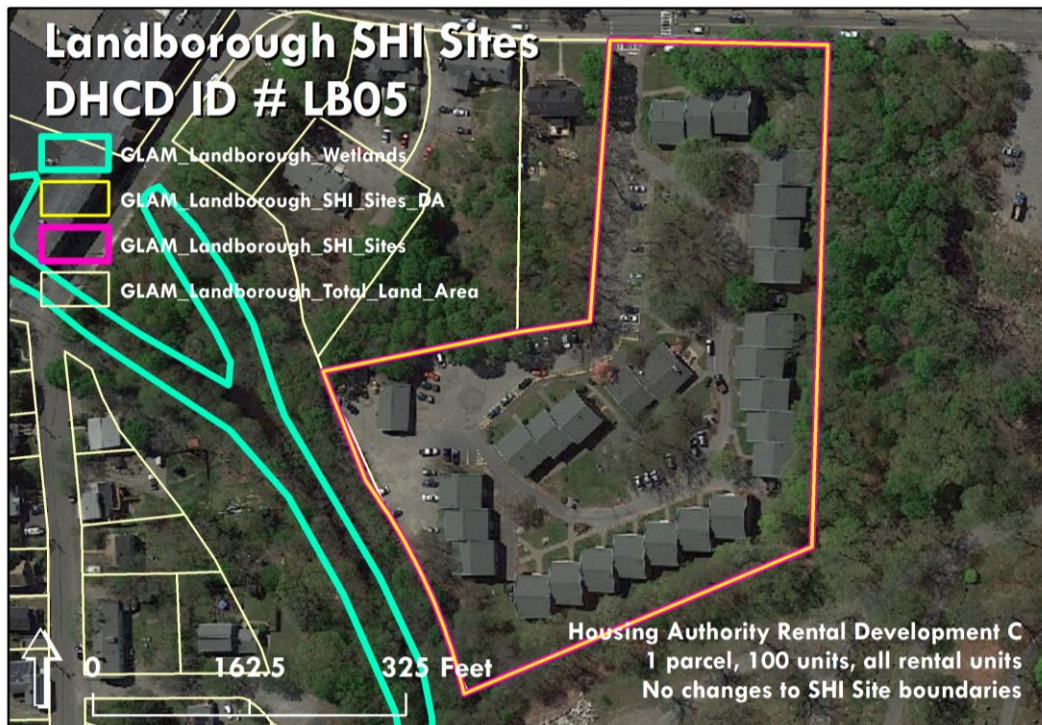




**Figure 12:** Similar to the previous example. Housing Authority Rental Development B.



**Figure 13:** Note that this parcel is near a wetland, but does not overlap with it, so no changes have been made to the SHI Site boundaries.

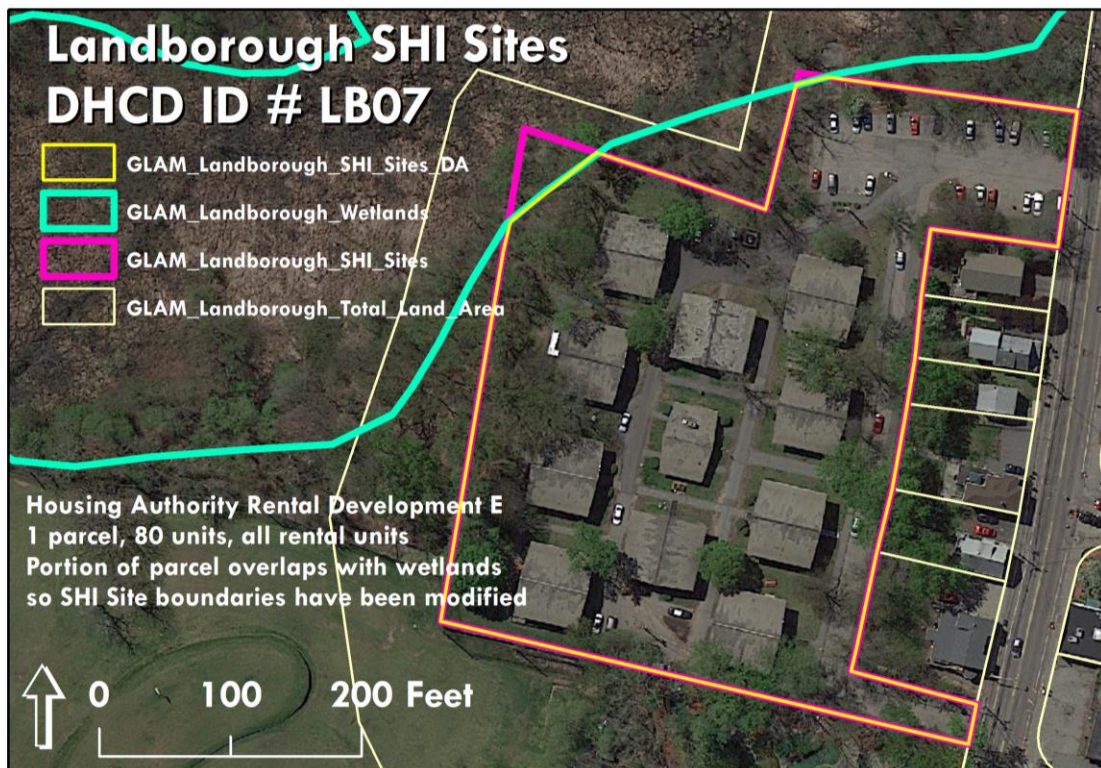




**Figure 14:** This parcel is heavily vegetated, so the SHI Site boundary was modified to exclude much of the vegetation.

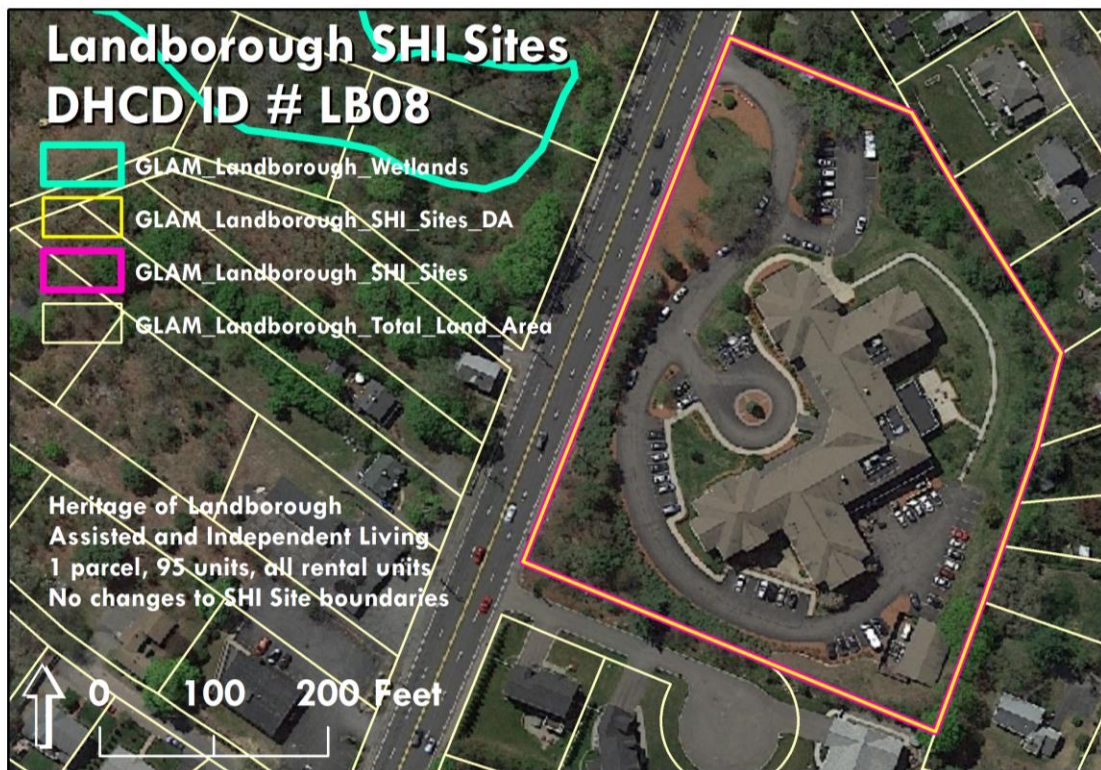


**Figure 15:** This parcel overlapped with wetlands, so the SHI Site boundary was modified accordingly.

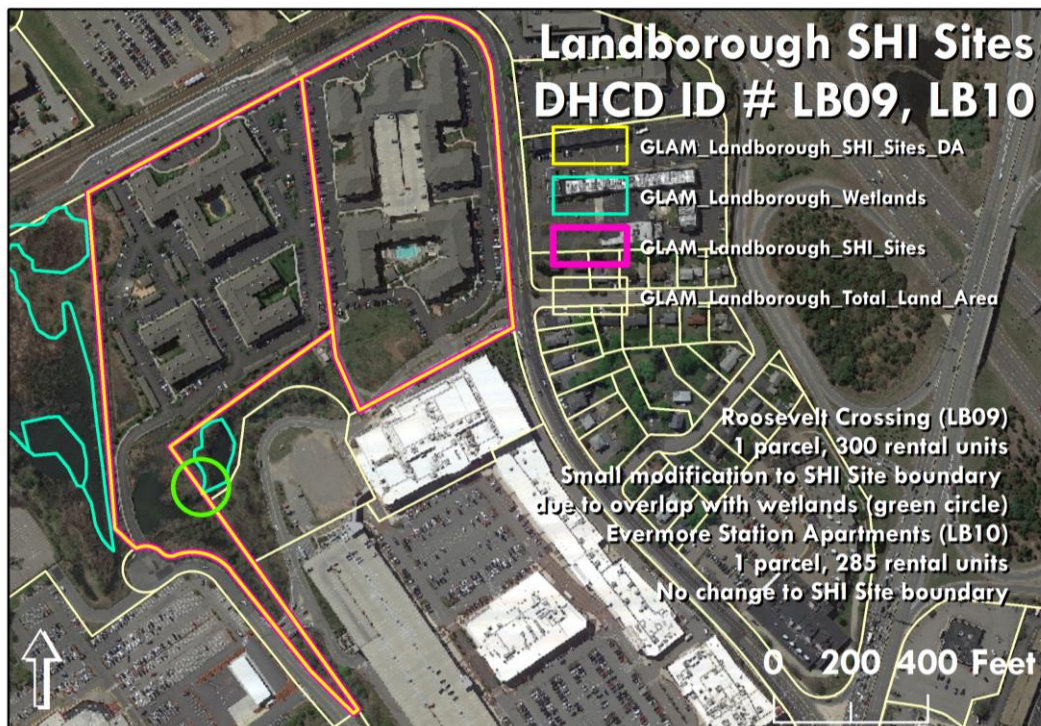




**Figure 16:** Assisted and independent living facility with no changes to SHI Site boundary.

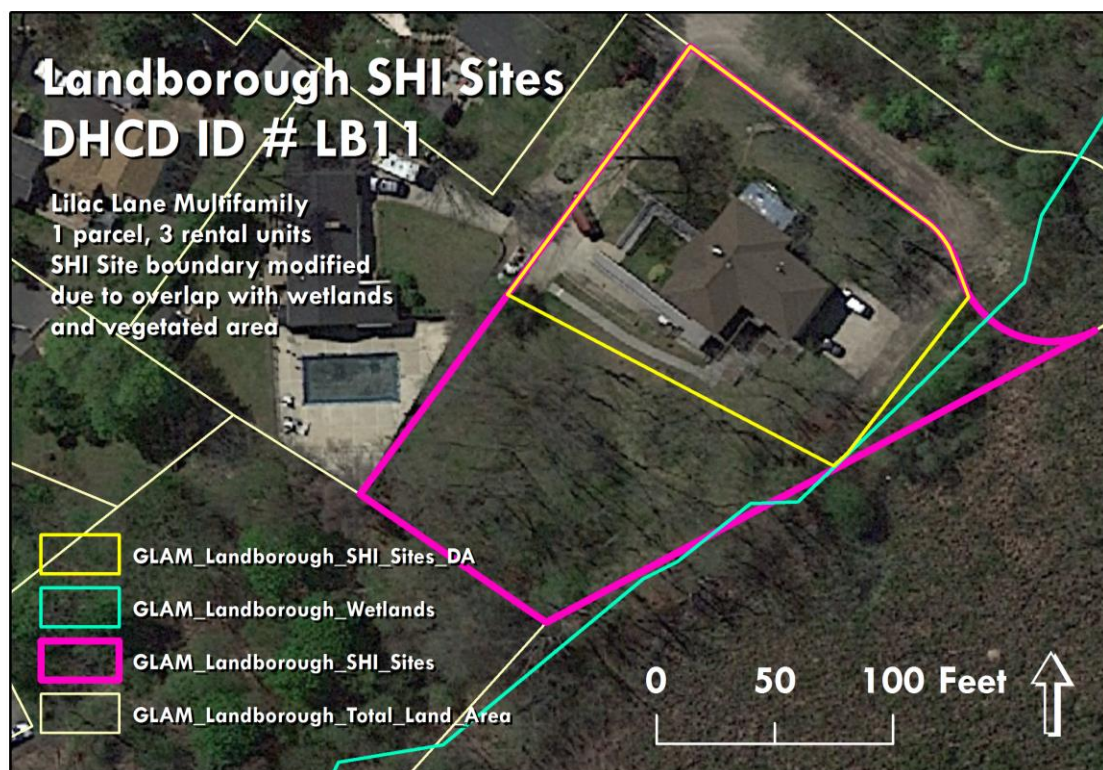


**Figure 17:** Two adjacent SHI developments can be shown on a single map, as long as the image is clear. The parcel on the left overlapped slightly with a wetland so the SHI Site boundary was modified accordingly, highlighted with the green circle in the image below.

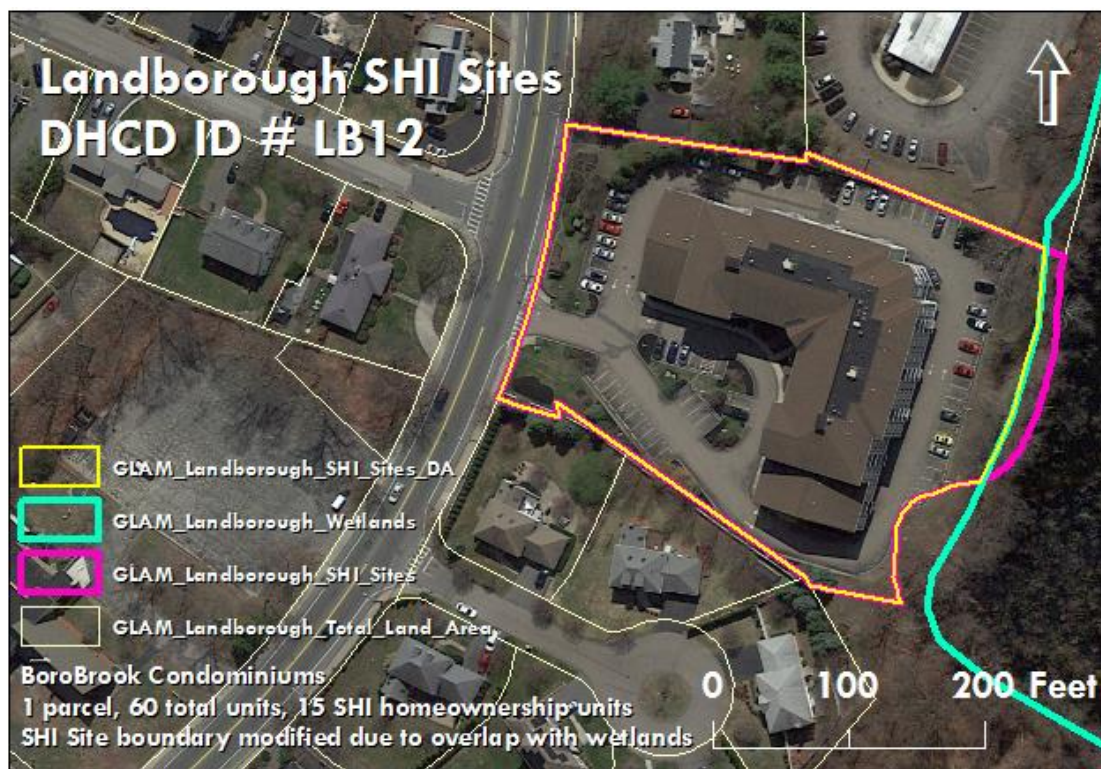




**Figure 18:** This SHI Site parcel overlaps with wetlands and includes heavy vegetation, so the SHI Site was modified accordingly.



**Figure 19:** This SHI development is a condominium building, and was represented by several identical overlapping parcel polygons which needed to be merged to a single polygon using the Editor tool. Then, the SHI site was modified to remove the part that overlapped with wetlands. As a homeownership development, the SHI Units must be prorated. There are 60 total units in the development, of which 15 are SHI-Eligible Housing Units.



**Figure 20:** Step 3.4 requires the prorated acreage to be calculated for each SHI Site. Additionally, the minimum required lot area under local zoning must be calculated. To determine the SHI-Eligible Area, the lower number – either the prorated area or the required lot area – is included towards the SHI Area calculation.

DHCD_ID	ProjName	SHI_Units	TotUnits	LotUnits	Tenure	NumParcels	LOC_ID	ac_p_unit	eligible_area	pct_eligible	prorated_area	reqlotarea	SHI_area
LB01	Housing Authority Rental Subdivision A	80	80	3.8095238	Rental	21	F_xxxxxx_xxxx001	0.05	0.1912734	100%	0.191273395	0.190476191	0.190476191
LB01	Housing Authority Rental Subdivision A	80	80	3.8095238	Rental	21	F_xxxxxx_xxxx002	0.05	0.171727	100%	0.171727026	0.190476191	0.171727026
LB01	Housing Authority Rental Subdivision A	80	80	3.8095238	Rental	21	F_xxxxxx_xxxx003	0.05	0.2706427	100%	0.270642747	0.190476191	0.190476191
LB01	Housing Authority Rental Subdivision A	80	80	3.8095238	Rental	21	F_xxxxxx_xxxx004	0.05	0.1903871	100%	0.190387093	0.190476191	0.190387093
LB01	Housing Authority Rental Subdivision A	80	80	3.8095238	Rental	21	F_xxxxxx_xxxx005	0.05	0.193953	100%	0.193952986	0.190476191	0.190476191
LB01	Housing Authority Rental Subdivision A	80	80	3.8095238	Rental	21	F_xxxxxx_xxxx006	0.05	0.1992189	100%	0.199218856	0.190476191	0.190476191

LB01	Housing Authority Rental Subdivision A	80	80	3.8095238	Rental	21	F_xxxxxx_xxxx007	0.05	0.1710275	100%	0.17102751	0.190476191	0.17102751
LB01	Housing Authority Rental Subdivision A	80	80	3.8095238	Rental	21	F_xxxxxx_xxxx008	0.05	0.1823152	100%	0.182315171	0.190476191	0.182315171
LB01	Housing Authority Rental Subdivision A	80	80	3.8095238	Rental	21	F_xxxxxx_xxxx009	0.05	0.173332	100%	0.173332039	0.190476191	0.173332039
LB01	Housing Authority Rental Subdivision A	80	80	3.8095238	Rental	21	F_xxxxxx_xxxx010	0.05	0.1743682	100%	0.174368177	0.190476191	0.174368177
LB01	Housing Authority Rental Subdivision A	80	80	3.8095238	Rental	21	F_xxxxxx_xxxx011	0.05	0.1819421	100%	0.181942122	0.190476191	0.181942122
LB01	Housing Authority Rental Subdivision A	80	80	3.8095238	Rental	21	F_xxxxxx_xxxx012	0.05	0.1731401	100%	0.173140051	0.190476191	0.173140051
LB01	Housing Authority Rental Subdivision A	80	80	3.8095238	Rental	21	F_xxxxxx_xxxx013	0.05	0.1814977	100%	0.181497691	0.190476191	0.181497691
LB01	Housing Authority Rental Subdivision A	80	80	3.8095238	Rental	21	F_xxxxxx_xxxx014	0.05	0.2104002	100%	0.210400241	0.190476191	0.190476191
LB01	Housing Authority Rental Subdivision A	80	80	3.8095238	Rental	21	F_xxxxxx_xxxx015	0.05	0.1690439	100%	0.169043867	0.190476191	0.169043867
LB01	Housing Authority Rental Subdivision A	80	80	3.8095238	Rental	21	F_xxxxxx_xxxx016	0.05	0.1820478	100%	0.182047776	0.190476191	0.182047776
LB01	Housing Authority Rental Subdivision A	80	80	3.8095238	Rental	21	F_xxxxxx_xxxx017	0.05	0.169467	100%	0.169466997	0.190476191	0.169466997
LB01	Housing Authority Rental Subdivision A	80	80	3.8095238	Rental	21	F_xxxxxx_xxxx018	0.05	0.1842353	100%	0.184235329	0.190476191	0.184235329
LB01	Housing Authority Rental Subdivision A	80	80	3.8095238	Rental	21	F_xxxxxx_xxxx019	0.05	0.226348	100%	0.226348043	0.190476191	0.190476191
LB01	Housing Authority Rental Subdivision A	80	80	3.8095238	Rental	21	F_xxxxxx_xxxx020	0.05	0.1736167	100%	0.173616681	0.190476191	0.173616681
LB01	Housing Authority Rental Subdivision A	80	80	3.8095238	Rental	21	F_xxxxxx_xxxx021	0.05	0.2342462	100%	0.234246217	0.190476191	0.190476191
LB02	Housing Authority Rental	26	26	2	Rental	15	F_xxxxxx_xxxx022	0.1	0.1551174	100%	0.155117378	0.2	0.155117378

	Subdivision B												
LB02	Housing Authority Rental Subdivision B	26	26	2	Rental	15	F_xxxxxx_xxxx023	0.1	0.1748647	100%	0.174864662	0.2	0.174864662
LB02	Housing Authority Rental Subdivision B	26	26	2	Rental	15	F_xxxxxx_xxxx024	0.1	0.1803227	100%	0.180322718	0.2	0.180322718
LB02	Housing Authority Rental Subdivision B	26	26	2	Rental	15	F_xxxxxx_xxxx025	0.1	0.1847487	100%	0.184748662	0.2	0.184748662
LB02	Housing Authority Rental Subdivision B	26	26	0	Rental	15	F_xxxxxx_xxxx026	0.1	0.0281586	100%	0.028158614	0	0
LB02	Housing Authority Rental Subdivision B	26	26	2	Rental	15	F_xxxxxx_xxxx027	0.1	0.187698	100%	0.187698041	0.2	0.187698041
LB02	Housing Authority Rental Subdivision B	26	26	2	Rental	15	F_xxxxxx_xxxx028	0.1	0.1702596	100%	0.170259628	0.2	0.170259628
LB02	Housing Authority Rental Subdivision B	26	26	2	Rental	15	F_xxxxxx_xxxx029	0.1	0.2188315	100%	0.21883155	0.2	0.2
LB02	Housing Authority Rental Subdivision B	26	26	2	Rental	15	F_xxxxxx_xxxx030	0.1	0.2291337	100%	0.229133657	0.2	0.2
LB02	Housing Authority Rental Subdivision B	26	26	2	Rental	15	F_xxxxxx_xxxx031	0.1	0.2116242	100%	0.211624224	0.2	0.2
LB02	Housing Authority Rental Subdivision B	26	26	2	Rental	15	F_xxxxxx_xxxx032	0.1	0.2146912	100%	0.214691183	0.2	0.2
LB02	Housing Authority Rental Subdivision B	26	26	2	Rental	15	F_xxxxxx_xxxx033	0.1	0.2048392	100%	0.204839205	0.2	0.2
LB02	Housing Authority Rental Subdivision B	26	26	2	Rental	15	F_xxxxxx_xxxx034	0.1	0.1882748	100%	0.188274814	0.2	0.188274814
LB02	Housing Authority Rental Subdivision B	26	26	2	Rental	15	F_xxxxxx_xxxx035	0.1	0.2834883	100%	0.28348832	0.2	0.2
LB02	Housing Authority Rental Subdivision B	26	26	0	Rental	15	F_xxxxxx_xxxx036	0.1	0.5260469	100%	0.526046946	0	0
LB03	Housing Authority Rental Development A	25	25	25	Rental	1	F_xxxxxx_xxxx037	0.05	1.0561353	100%	1.056135265	1.25	1.056135265



LB04	Housing Authority Rental Development B	24	24	24	Rental	1	F_XXXXXX _XXXX038	0.05	1.4787018	100%	1.478701808	1.2	1.2
LB05	Housing Authority Rental Development C	100	100	100	Rental	1	F_XXXXXX _XXXX039	0.05	4.6917359	100%	4.691735856	5	4.691735856
LB06	Housing Authority Rental Development D	8	8	8	Rental	1	F_XXXXXX _XXXX040	0.025	0.1251925	100%	0.125192545	0.2	0.125192545
LB07	Housing Authority Rental Development E	80	80	80	Rental	1	F_XXXXXX _XXXX041	0.05	3.2636477	100%	3.263647709	4	3.263647709
LB08	Heritage of Landborough Assisted and Independent Living	95	95	95	Rental	1	F_XXXXXX _XXXX042	0.05	3.9715737	100%	3.971573741	4.75	3.971573741
LB09	Roosevelt Crossing	300	300	300	Rental	1	F_XXXXXX _XXXX043	0.05	11.654934	100%	11.65493379	15	11.65493379
LB10	Evermore Station Apartments	285	285	285	Rental	1	F_XXXXXX _XXXX044	0.05	9.494455	100%	9.494455007	14.25	9.494455007
LB11	Lilac Lane Multifamily	3	3	3	Rental	1	F_XXXXXX _XXXX045	0.1	0.4196378	100%	0.419637798	0.3	0.3
LB12	BoroBrook Condominiums	15	60	60	Ownership	1	F_XXXXXX _XXXX046	0.01	2.0597457	25%	0.51493643	0.6	0.51493643

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#### **Step 4: Calculate Results**

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Per the instructions in step 4.1, the sum of “SHI\_area” from the SHI Sites table as shown in Figure 20 is calculated to determine the SHI Area. Then, this number is divided by Total Land Area in order to a preliminary determination of 1.5% General Land Area Minimum.

$$42.5253771 \text{ acres} / 3,871 \text{ acres} = 1.099\%$$