



# Town of Philipstown & the Hudson Highlands Land Trust



Philipstown Buildout Analysis October 11, 2006



# Testing the Town Zoning Law

- •Residents often assume that zoning regulations protect them from inappropriate development.
- •Zoning and subdivision regulations typically prescribe how all buildable land is to be developed.
- •Build out analysis allows a community to "test" its regulations by taking a peek into the future.



# What is a build out analysis?

- •An estimate of the cumulative growth on a town's land areas once all developable land has been consumed and converted to uses currently permitted by zoning.
- •Helps to visualize the patterns of growth through maps of developed and undeveloped lands.



# What is a build out analysis?

- •A tool designed to assist residents and decision-makers of the impacts of growth.
- •Identifies public services that need to be available to accommodate growth.
- •Helps to estimate the costs and revenues required to meet changing needs.



# What is a build out analysis?

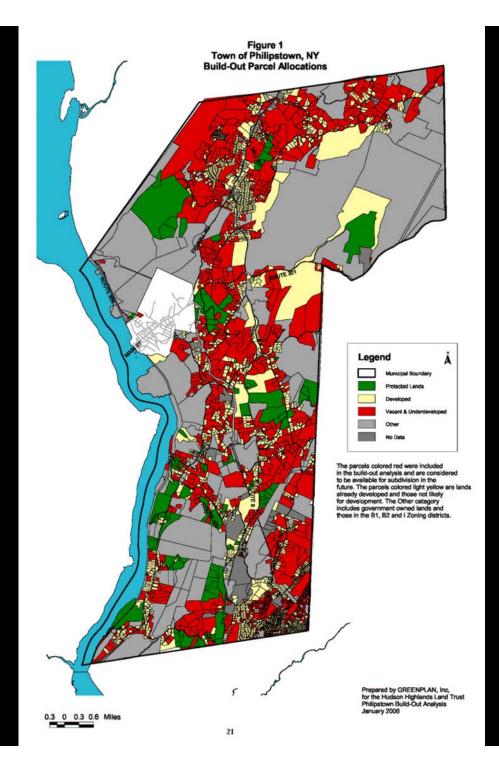
- •Helps to identify resource constraints that may impede new development.
- •Helps in the selection of policy alternatives to accommodate or mitigate growth.
- •It is not a prediction of what will occur but can show the consequences of inaction.

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### Analysis Assumptions

- Only residential (single-family) development analyzed. Commercially zoned properties were not examined.
- Parcels < 2 acres & those in the R-40 District:
  - Vacant & underdeveloped parcels 1 unit/1.5 acres
- Open Development Area (ODA) was applied as follows:
  - Vacant parcels 2 to 14 acres 2 new lots
  - Underdeveloped parcels 2 to 14 acres 1 new lot
  - For vacant parcels 15 to 42 acres 4 new lots
  - Underdeveloped parcels 15 to 42 acres 3 new lots
- Parcels  $\geq$  42 acres:
  - Vacant parcels 1 unit/5 acres
  - Underdeveloped parcels 1 unit/5 acres minus the minimum lot size of the underlying zoning district
- Additional lots for conservation easement properties are assumed to be developed.
- Planned Development Districts were not considered.





# Steps in the process:

1. All constrained lands are subtracted from the Town's land area.

The result is a "net usable land area".



### Natural Constraints Identified:

#### Parcels < 2 acres:

- New York State protected freshwater wetlands and their adjacent 100-foot buffer
- Federal wetlands identified under the National Wetlands Inventory

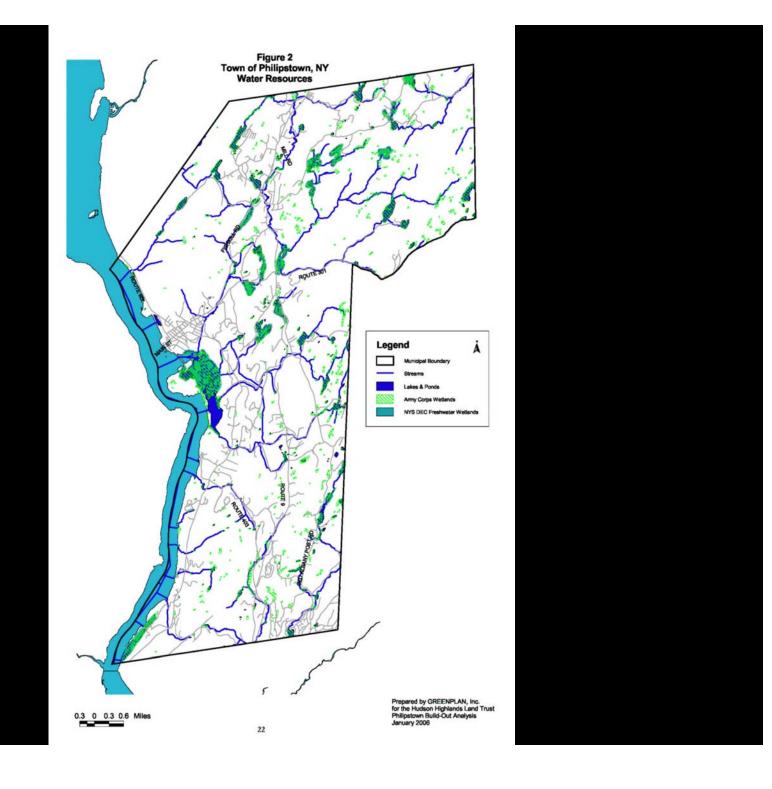


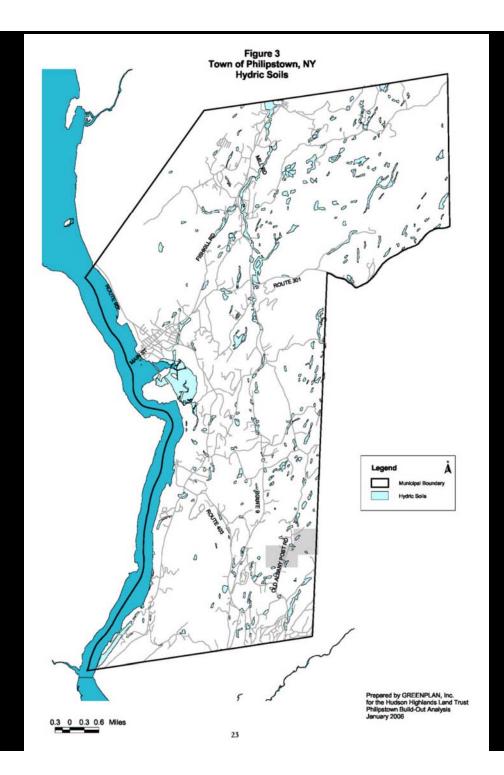
## Natural Constraints Identified:

#### Parcels 42 acres and greater:

- New York State protected freshwater wetlands and their adjacent 100-foot buffer
- Federal wetlands identified under the National Wetlands Inventory
- Water Bodies
- Slopes Greater than 35%
- 50% of the Slopes 25% to 34%
- Hydric (unbuildable) soils









# Steps in the process:

- 1. All constrained lands are subtracted from the Town's land area. The result is a "net usable land area".
- 2. Zoning and other assumptions are applied to the "net usable land area".

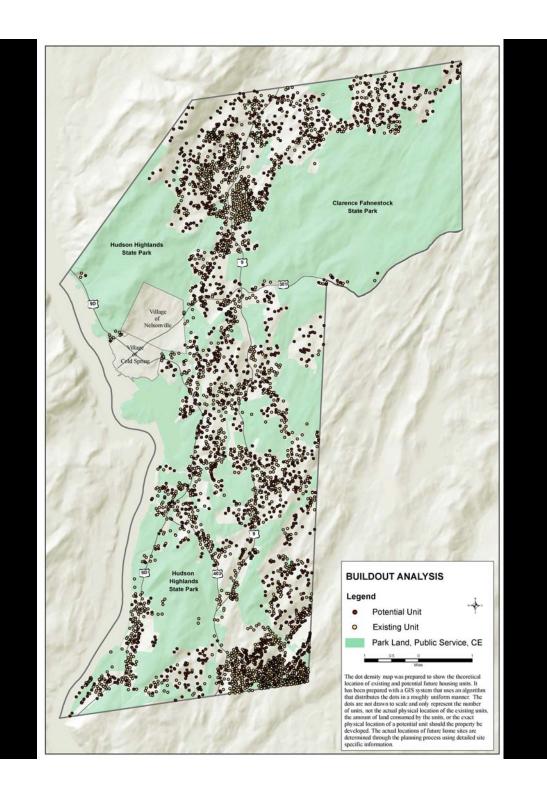


#### Potential New Units

	< 2 acres		2 to 14 acres		15 to 42 acres		> 42 acres	
School District	Vacant	Under- Developed	Vacant	Under- Developed	Vacant	Under- Developed	Vacant	Under- Developed
Haldane	72	0	258	181	76	66	116	20
Garrison	59	0	228	202	52	69	63	24
Lakeland	140	3	24	24	36	6	13	4
Wappingers	0	0	6	1	8	3	0	0
Subtotal	271	3	516	408	172	144	192	48

1754 units + 26 Reserve Units = 1780 Total New Units





# Steps in the process:

- 1. All constrained lands are subtracted from the Town's land area. The result is a "net usable land area".
- 2. Protected lands are subtracted. Then existing zoning is applied to the "net usable land area" and subject to a "highest and best use" development scenario.
- 3. Estimate potential new dwelling units into trends like population growth, cost of community services, traffic, and infrastructure needs for the added population.



Summary of Build-Out Impacts						
	Potential Impacts	Impact Factor				
# of Developable Acres (DA)	7,426					
# of Existing Units	3,983					
# of New Units	1,780					
Additional Residents	4,557	2.56/unit				
Additional School Age Children	1,507	.845/unit				
Acres of Impervious Surface	743	10% * DA				
Miles of New Private Roads	34	100 feet/unit				
Additional Vehicles on Roads	3,560	2/unit				
Additional Vehicle Trips/Day	16,999	9.55/unit				
Additional Police Officers	5	1/1000 new population				
Additional Fire Fighters	5	1/1000 new population				
Additional Water Consumed (gpd)	676,400	380 gpd/unit				
Additional Sewage Generated (gpd)	676,400	380 gpd/unit				



#### What is fiscal impact analysis?

The purpose of fiscal impact analysis is to estimate the impact of development or land use change on the costs and revenues of governments serving the development.

Mary Edwards, Community Guide to Development Impact Analysis.

University of Wisconsin.

It shows annual tax revenues and costs at the time of the build-out.

Estimated New Tax Revenues From Development

MINUS

Estimated New
Expenditures Required
to Support
Development

**EQUALS** 

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Estimated Net Fiscal Impact of Development



#### What can it tell us?

In general terms, how projected growth is likely to affect local governments' abilities to sustain current levels of taxes and spending.



#### What can't it tell us?

A precise picture of future taxes and spending.

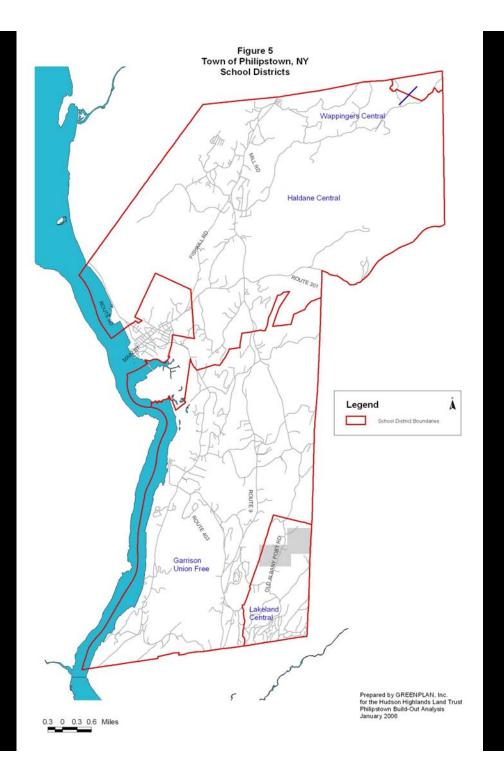


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### Assumptions – School Districts

- School per-pupil operating costs remain the same throughout the time of the build-out.
- The School tax rate remains the same throughout the time of the build-out.





### Summary of School Impacts

District	Existing Children	Total 2004-05 Budget	Estimated New Childre n	Total Cost	Total Revenues	Net Impact
Haldane	853	\$14,566,935	670	\$9,911,579	\$6,089,492	(\$3,822,087)
Garrison	382	7,505,970	609	10,867,975	3,421,838	(7,446,137)
Lakeland	6,867	106,928,849	212	2,406,914	2,435,533	28,619
Wappingers	12,312	140,252,663	16	131,589	109,450	(22,139)
Total	20,326	N/A	1,507	\$23,318,057	\$12,056,313	(\$11,261,744)



#### Build-out Conclusions:

Current Zoning Practices will increase population, including school-age children.

Increased population will potentially require greater expenditures from Town taxpayers to support additional services and school costs.

Traffic will increase on area roads and new roads will introduce additional impervious surfaces, a major cause of water pollution.

Philipstown can control its destiny by using "smart growth" techniques to minimize or avoid these effects.

