

FLANNING COMMISSION EXHIBITHE

Connecticut Fund for the Environment

Ms. Christine Nelson, AICP Town Planner and Director of Land Use 302 Main Street Old Saybrook, CT 06475-1741

Dear Ms. Nelson,

Attached, you will find several GIS maps that illustrate the natural resource impacts of several different development layouts on the property known as "the Preserve." To determine the relative scale of the ecological impacts of the differing proposals, the site in its undeveloped natural state was assigned a relative ecological inventory score of 100%. The ecological impact of various development designs was then evaluated with respect to three natural resource criteria drawn from Old Saybrook's Open Space Regulations and Connecticut statutes: Forest and Habitat Fragmentation, Water Resources, and Vernal Pools and Vernal Pool Habitat. Each proposal is scored for one or more of these natural resource values. The higher the resulting score, the better the proposal from an environmental perspective. Those calculations, and how they were derived, are illustrated in the accompanying sheets.

As is evident from the attached materials the applicant's development proposal will have a far greater negative impact on these natural resources than the alternative design proposed by the intervening party, Connecticut Fund for the Environment. This alternative was designed with several key concepts, beyond reducing natural resource impacts, in mind. First, we used the applicant's own numbers regarding the number of units to be sited on the property (roughly 250). While we agree with the town of Old Saybrook's consultants that the number of units proposed by the applicant is unrealistically high, we wanted to demonstrate that even in the worst case scenario, i.e. using the applicant's proposed numbers, a prudent and feasible alternative that is more

¹ In designing the alternative, we also had input from George Logan of Rema Ecological Services.

ecologically sensitive responsible exists. Second, we designed the alternative bearing in mind the town's requirements for multiple roadway access points and cul-de-sac limitations. Finally, while the prudent and feasible alternative identified by CFE has less environmental impact than the applicant's proposal, areas identified for development in the intervener's prudent and feasible alternative correspond generally to areas already identified as suitable for development by the applicant, although the prudent and feasible alternative has a much smaller footprint.

We anticipate that the applicant will complain about the removal of the golf course from the proposed alternative design. Specifically, we have heard several times during the course of these proceedings that the applicant believes that removing the golf course component would diminish its return on the project. The Commission should be aware, however, that neither your own zoning regulations nor the state Environmental Protection Act are designed to guarantee an applicant the greatest possible economic yield. Indeed, at its most fundamental level, zoning law recognizes that economic maximization is inconsistent with responsible development and planning. Every regulation necessarily limits the scope of what an applicant might otherwise choose to do if guided solely by self-interest and profit maximization. It may be that the applicant has made a bad investment decision; it is certainly not the obligation of this Commission to protect the applicant from the effects of its own folly.

In sum, these materials demonstrate that the application before you is reasonably likely to unreasonably pollute, impair or destroy the public trust in the natural resources of the state and that there is a prudent and feasible alternative consistent with the reasonable requirements of the public health, safety and welfare.²

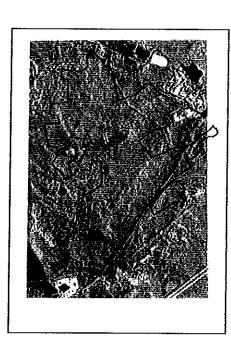
Very Truly Yours,

Charles J. Rothenberger

Legal Fellow

² For further information, I refer you to the letter of Carolyn Longstreth, dated January 5, 2005, and the reports submitted by, inter alia, George Logan of Rema Ecological Services.

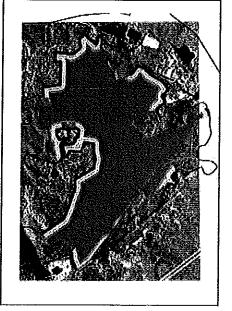
Measures how much of the parcel area is not impacted by development (homes, roads, lawns, driveways, cleared areas)



Score = -		O Developed area	1 Undeveloped area	Value De
983				Description
100	983	0	983	Area Measured
100%	983	0	983	Weighted Score

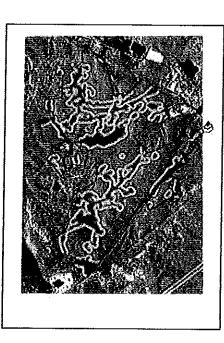
Unfragmented Forest

Measures how much of the parcel remains as forest and weights it by how remote the forest areas are from human activity (roads, homes, etc.)



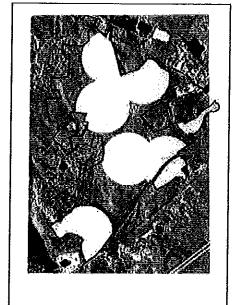
3 %	100%	Score 4,338 Base Case 4.338	Base
4,338	983		
0	0	Developed area	°
59	59	Forest area# 0 to 100 feet from human activity	-
114	57	Forest areas 100 to 200 feet from human activity	N
171	57	Forest areas 200 to 300 feet from human activity	ω
224	5 1	Forest areas 300 - 400 feet from human activity	4
3,770	754	Forest areas 400 + feet from human activity	Ü
Score	Measured	Description	Value
Weighted	Area		

Measures how much of the wetlands, watercourses, and buffer areas are not impacted by development (homes, roads, lawns, cleared areas) and weights it by proximity to the water resource

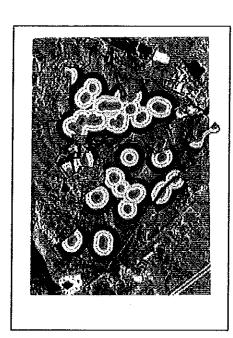


3 1,759		Score 1,759	
			Sc
0	983		
	421	Developed land within 200 feet of a wetland or watercourse or areas located 200 + feet from wetland / watercourse	0
93	93	Undeveloped land within 150 to 200 feet of a wetland or watercourse	-
7 214	107	Undeveloped land within 100 to 150 feet of a wetland or watercourse	N
7 351	117	Undeveloped land within 50 to 100 feet of a wedland or watercourse	ω
496	124	Undeveloped land within 0 to 50 feet of a wetland or watercourse	4
605	121	Undeveloped wetland or watercourse	GI
ured Score	Measured	Description	Value

Natural Diversity

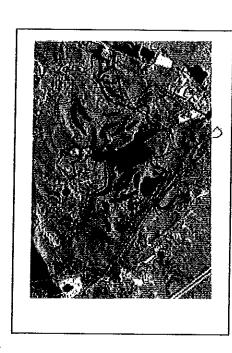


Bas		0	-	Value
Score = 620 = 620 =		Developed land within NDD area or land outside NDD area	Undeveloped land within NDD area	Description
100%	983	363	620	Area Measured
0%	620	0	620	Weighted Score



0%	100%	Score 3 1,572 = 1,572 =	
1,457	983		
0	379	Developed land within 750 feet of a vernal pool or areas located 200 + feet from a vernal pool	0
160	160	Undeveloped land within 450 to 750 feet from a vernal pool	-
336	168	2 Undeveloped land within 300 to 450 feet from a vernal pool	N
474	158	3 Undeveloped land within 150 to 300 feet from a vernal pool	ω
412	103	Undeveloped land within 0 to 150 feet from a vernal pool	4
75	5	5 Vernal pool	Œ
Weighted Score	Area Measured	Value Description	Valu

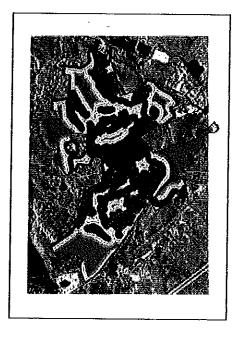
Measures how much of the parcel area is not impacted by development (homes, roads, lawns, driveways, cleared areas)



Bas		0	-	Value
Score = 718 Base Case 983 =		Developed area	Undeveloped area	Description
73%	983	265	718	Area Measured
%	718	0	718	Weighted Score

Unfragmented Forest

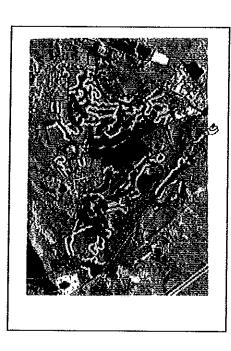
Measures how much of the parcel remains as forest and weights it by how remote the forest areas are from human activity (roads, homes, etc.)



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•	1,818		O Developed area	Forest areas 0 to 100 feet from human activity	2 Forest areas 100 to 200 feet from human activity	3 Forest areas 200 to 300 feet from human activity	4 Forest areas 300 - 400 feet from human activity	5 Forest areas 400 + feet from human activity	
42%		983	265	271	152	88	56	151	
%		1818	0	271	304	264	224	755	

Measures how much of the wetlands, watercourses, and buffer areas are not impacted by development (homes, roads, lawns, cleared areas) and weights it by proximity to the water resource

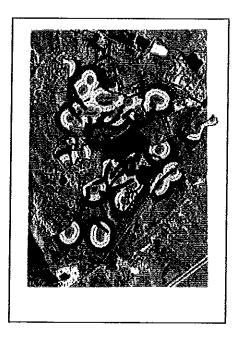


%	85%	Base Case 1,759	Base
?	3	1,457	Š
1,457	983		
0	541	Developed land within 200 feet of a wetland or watercourse or areas located 200 + feet from wetland / watercourse	0
ය	ස	Undeveloped land within 150 to 200 feet of a wetland or watercourse	1
148	74	Undeveloped land within 100 to 150 feet of a wetland or watercourse	N
264	88	Undeveloped land within 50 to 100 feet of a wetland or watercourse	ယ
412	103	Undeveloped land within 0 to 50 feet of a wetland or watercourse	4
570	114	Undeveloped wetland or watercourse	Œ
Weighted Score	Area Measured	Description	Value

Natural Diversity

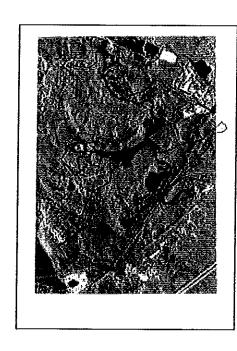


Bas		0		Value
Score 451		Developed land within NDD area or land outside NDD area	Undeveloped land within NDD area	Description
73%	983	532	451	Area Measured
3%	451	0	451	Weighted Score



Sc		0	1	N	ω	4	Üī	Value
Score = 1,214 = 1,572 =		Developed land within 750 feet of a vernal pool or areas located 200 + feet from a vernal pool	Undeveloped land within 450 to 750 feet from a vernal pool	Undeveloped land within 300 to 450 feet from a vernal pool	Undeveloped land within 150 to 300 feet from a vernal pool	Undeveloped land within 0 to 150 feet from a vernal pool	Vernal pool	Description
77	983	439	207	121	114	87	ជា	Area Measured
77%	1,214	0	207	242	342	348	75	Weighted Score

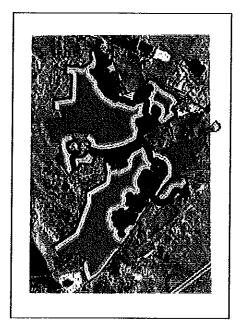
Measures how much of the parcel area is not impacted by development (homes, roads, lawns, driveways, cleared areas)



Bas		0	-	Value
Score = 847 = 983		Developed area	Undeveloped area	Description
86	983	136	847	Area Measured
86%	847	0	847	Weighted Score

Unfragmented Forest

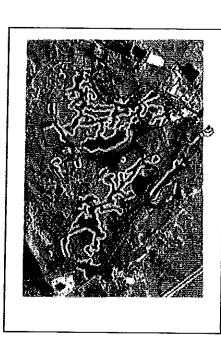
Measures how much of the parcel remains as forest and weights it by how remote the forest areas are from human activity (roads, homes, etc.)



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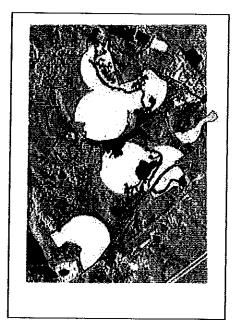
Value Description Area Meighter Score Weighter Score 5 Forest areas 400 + feet from human activity 368 1,840 4 Forest areas 300 - 400 feet from human activity 83 332 3 Forest areas 200 to 300 feet from human activity 96 288 2 Forest areas 100 to 200 feet from human activity 119 238 1 Forest areas 0 to 100 feet from human activity 181 181 0 Developed area 136 0 983 2,879	%	66%	Score <u>2,879</u> Base Case 4,338	Base
Porest areas 400 + feet from human activity Forest areas 300 - 400 feet from human activity Forest areas 300 - 400 feet from human activity Forest areas 200 to 300 feet from human activity Forest areas 100 to 200 feet from human activity Forest areas 0 to 100 feet from human activity 139 Poweloped area	2,87	983		
Porest areas 400 + feet from human activity Forest areas 300 - 400 feet from human activity Forest areas 300 - 400 feet from human activity Forest areas 200 to 300 feet from human activity Forest areas 100 to 200 feet from human activity Forest areas 0 to 100 feet from human activity 119	0	136	Developed area	0
Porest areas 400 + feet from human activity Forest areas 300 - 400 feet from human activity Forest areas 200 to 300 feet from human activity Forest areas 100 to 200 feet from human activity Forest areas 100 to 200 feet from human activity 119	181	181	Forest areas 0 to 100 feet from human activity	
Porest areas 400 + feet from human activity Forest areas 300 - 400 feet from human activity Forest areas 200 to 300 feet from human activity 96	238	119	Forest areas 100 to 200 feet from human activity	N
Porest areas 300 - 400 feet from human activity Forest areas 300 - 400 feet from human activity 368	288	96	Forest areas 200 to 300 feet from human activity	ယ
Description Measured Forest areas 400 + feet from human activity 368	332	83	Forest areas 300 - 400 feet from human activity	4
Description Measured	1,840	368	Forest areas 400 + feet from human activity	ζī
	Weighted Score	Area Measured	Description	Value

Measures how much of the wetlands, watercourses, and buffer areas are not impacted by development (homes, roads, lawns, cleared areas) and weights it by proximity to the water resource

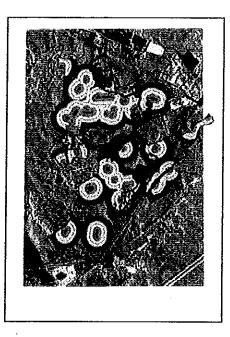


%	97%	Base Case 1,759	<u>α</u>
		Score 1,708	
1,708	983		
0	447	Developed land within 200 feet of a wetland or watercourse or areas located 200 + feet from wetland / watercourse	0
83	83	Undeveloped land within 150 to 200 feet of a wetland or watercourse	-
196	98	Undeveloped land within 100 to 150 feet of a wetland or watercourse	N
336	112		ω
488	122	•	4
605	121	-	G
Weighted Score	Area Measured	alue Description	Value

Natural Diversity

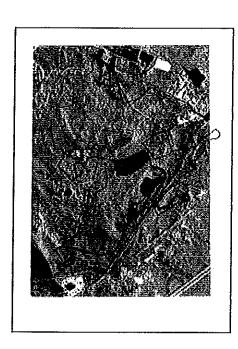


Bas		0	-	Value
Score = 532 = 620 =		Developed land within NDD area or land outside NDD area	Undeveloped land within NDD area	Description
86%	983	451	532	Area Measured
%	532	0	532	Weighted Score



8	92%	Score 1,443	Bas
1,443	983		
0	332	Developed land within 750 feet of a vernal pool or areas located 200 + feet from a vernal pool	0
248	248	Undeveloped land within 450 to 750 feet from a vernal pool	-
288	144	Undeveloped land within 300 to 450 feet from a vernal pool	N
432	144	Undeveloped land within 150 to 300 feet from a vernal pool	ω
400	100	Undeveloped land within 0 to 150 feet from a vernal pool	4
75	7	Vernal pool	ζī
Weighted Score	Area Measured	Description	Value

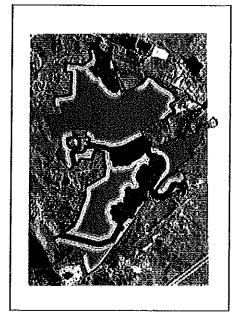
Measures how much of the parcel area is not impacted by development (homes, roads, lawns, driveways, cleared areas)



Bas		0	-	Value
Score = 861 Base Case 983		Developed area	Undeveloped area	Description
87	983	122	861	Area Measured
87%	861	0	861	Weighted Score

Unfragmented Forest

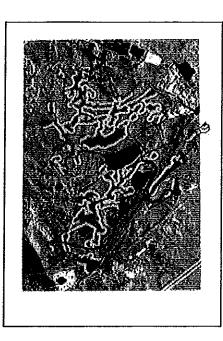
Measures how much of the parcel remains as forest and weights it by how remote the forest areas are from human activity (roads, homes, etc.)



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%	66%	Score = 2,876 = 4.338 =	Sase
	983		
2,876	122	Developed area	0
163	163	Forest areas 0 to 100 feet from human activity	-
232	116	Forest areas 100 to 200 feet from human activity	N
282	94	Forest areas 200 to 300 feet from human activity	ω
316	79	Forest areas 300 - 400 feet from human activity	4
2,045	409	Forest areas 400 + feet from human activity	(JI
Score	Measured	Description	Value
Weighted	Area		

Measures how much of the wetlands, watercourses, and buffer areas are not impacted by development (homes, roads, lawns, cleared areas) and weights it by proximity to the water resource

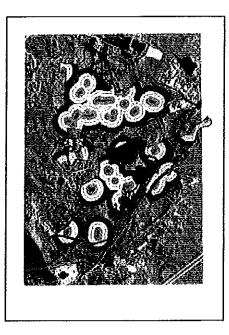


%	97%	Score 1,705 =	Base
1,705	983		
0	447	Developed land within 200 feet of a wedland or watercourse or areas located 200 + feet from wetland / watercourse	0
83	83	Undeveloped land within 150 to 200 feet of a wetland or watercourse	-
198	99	Undeveloped land within 100 to 150 feet of a wetland or watercourse	N
336	112	Undeveloped land within 50 to 100 feet of a wetland or watercourse	ယ
488	122	Undeveloped land within 0 to 50 feet of a wetland or watercourse	4
600	120	Undeveloped wetland or watercourse	Œ
Weighted Score	Area Measured	Description	Value

Natural Diversity

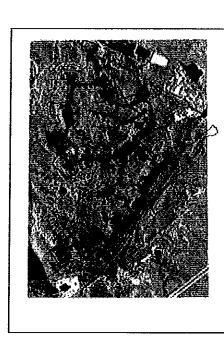


Bas		0	1	Value
Score = 535 Base Case = 620		Developed land within NDD area or land outside NDD area	Undeveloped land within NDD area	Description
86	983	448	535	Area Measured
86%	535	0	535	Weighted Score



70	0/ 7C	Base Case 1,572	Base
0/	3	Score = 1,447	Sc
1,447	983		
0	326	Developed land within 750 feet of a vernal pool or areas located 200 + feet from a vernal pool	0
253	253	Undeveloped land within 450 to 750 feet from a vernal pool	
292	146	Undeveloped land within 300 to 450 feet from a vernal pool	N
435	145	Undeveloped land within 150 to 300 feet from a vernal pool	ω
392	98	Undeveloped land within 0 to 150 feet from a vernal pool	4
75	5	Vernal pool	ΔI
Weighted Score	Area Measured	Description	Value

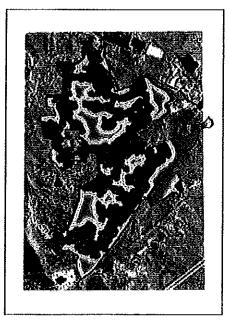
Measures how much of the parcel area is not impacted by development (homes, roads, lawns, driveways, cleared areas)



Bas		0	1	Value
Score = 661 Base Case 983		Developed area	Undeveloped area	Description
67	983	322	661	Area Measured
67%	661	0	661	Weighted Score

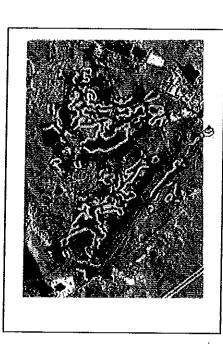
Unfragmented Forest

Measures how much of the parcel remains as forest and weights it by how remote the forest areas are from human activity (roads, homes, etc.)



%	33%	Score = 1,448 = 4.338	Sc
1,448	983		
0	322		0
284	284	Forest areas 0 to 100 feet from human activity	->
326	163	Forest areas 100 to 200 feet from human activity	N
270	90	Forest areas 200 to 300 feet from human activity	ω
208	52	Forest areas 300 - 400 feet from human activity	4
360	72	Forest areas 400 + feet from human activity	ú
Score	Measured	Description	Value

Measures how much of the wetlands, watercourses, and buffer areas are not impacted by development (homes, roads, lawns, cleared areas) and weights it by proximity to the water resource

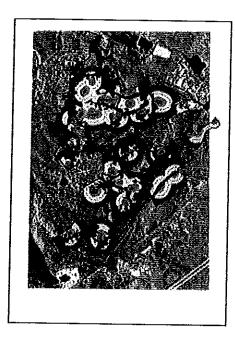


%	90%	Base Case 1.759 =	Base
1,581	983		î
0	513	Developed land within 200 feet of a wetland or watercourse or areas located 200 + feet from wetland / watercourse	0
53	53	Undeveloped land within 150 to 200 feet of a wetland or watercourse	-
156	78	undeveloped land within 100 to 150 feet of a wetland or watercourse	N
309	103	undeveloped land within 50 to 100 feet of a wetland or watercourse) (J
468	117	Undeveloped land within 0 to 50 feet of a wetland or watercourse	4 (
595	119	Undeveloped wetland or watercourse	Uī
Weighted Score	Area Measured	Description	Value

Natural Diversity



Bas		0	_	Value
Score 437 Base Case 620		Developed land within NDD area or land outside NDD area	Undeveloped land within NDD area	Description
70%	983	546	437	Area Measured
)%	437	0	437	Weighted Score



Score Base Case		O Developed	Yernal pool	2 Undevelop	3 Undevelop	4 Undevelo	5 Vernal pool	Value
- = 1,112 = 1,572 =		Developed land within 750 feet of a vernal pool or areas located 200 + feet from a vernal pool	Undeveloped land within 450 to 750 feet from a vernal pool	Undeveloped land within 300 to 450 feet from a vernal pool	Undeveloped land within 150 to 300 feet from a vernal pool	Undeveloped land within 0 to 150 feet from a vernal pool	<u>o</u>	Description
71%	983	489	190	105	99	8 5	15	Area Measured
	1,112	0	190	210	297	340	75	Weighted Score