Commonwealth of Massachusetts Executive Office of Environmental Affairs MEPA Office

ENF

Environmental Notification Form

For Office Use Only Executive Office of Environmental Affairs

EOEA No.: 1345/ MEPA Analyst Bill GAGE

Phone: 617-626-1025

The information requested on this form must be completed to begin MEPA Review in accordance with the provisions of the Massachusetts Environmental Policy Act, 301 CMR 11.00.

Project Name: School Stroot on site	10/		301 CIVITY 11.00.	
Project Name: School Street on-site	vvastew	ater Freatment	Facility	·
Street: School Street (Assessors Man	o: Mon C	<i>E</i> D = 1.443		
Municipality: Southborough	o. Map 6			
Universal Tranverse Mercator Coordinates:		Watershed: Concord River		
The state of the s	ii iales.		18' 46" N	
Estimated commencement date: July	1 2005	Longitude: 71°		
Approximate cost: \$2,500,000.00	1, 2003		pletion date: July 1,	
Proponent: Security Realty Trust		Status of project	craesign: 50%	complete
Street: 303 Worcester Road				
Municipality: Framingham		State: MA	7:- 0 - 1 - 0 - 7 - 1	
Name of Contact Person From Whom	Copies	of this ENE MA	Zip Code: 01701	
Desileng wang				
Firm/Agency: Carr Research Laboroa	tory. Ind	Street: 251 W	Central St. D. 26	*
ividilicipality. Natick		State: MA	Zip Code: 01760	
Phone: 508-651-7027	Fax: 508	-647-4737	E-mail:	
			deshengw@yahoo.	com
			and in a superior	00111
Does this project mant and				
Does this project meet or exceed a mand	latory EIF	R threshold (see 301	CMR 11.03)?	
Has this project been filed with MEPA be	L∐Y⊦ fore?	es	⊠No	
		es (EOEA No)	
Has any project on this site been filed wit	h MEPA I	before?		
	□Ye	es (EOEA No) 🛮 🖾 No	
Is this an Expanded ENF (see 301 CMR 11.05()	7)) reques	sting:	·—	
a Single EIR? (see 301 CMR 11.06(8))		∐Yes	⊠No	
a Special Review Procedure? (see 301CMR	11.09)	∐Yes	⊠No	
a Waiver of mandatory EIR? (see 301 CMR	11.11)	Yes		
	,,,,	=	⊠No	
a Phase I Waiver? (see 301 CMR 11.11)		∐Yes	⊠No	
Identify any financial assistance or land tr	ansfer fre	Yes	⊠No	ncluding
Identify any financial assistance or land tr	ansfer fre	Yes	⊠No	ncluding
Identify any financial assistance or land tr	ansfer fre	Yes	⊠No	ncluding
Identify any financial assistance or land to the agency name and the amount of fund	ansfer fro ing or lan	☐Yes om an agency of t nd area (in acres):	⊠No he Commonwealth, ir <u>N/A</u>	
Identify any financial assistance or land to the agency name and the amount of fund Are you requesting coordinated review wit	ansfer fro	Tyes Om an agency of the darea (in acres):	⊠No the Commonwealth, ir N/A	
Identify any financial assistance or land to the agency name and the amount of fund Are you requesting coordinated review wit Yes(SpecifyMA D	ansfer fro ing or lan th any oth EP	Tyes Om an agency of the darea (in acres):	⊠No the Commonwealth, ir N/A	
Identify any financial assistance or land to the agency name and the amount of fund Are you requesting coordinated review wit	ansfer fro ing or lan th any oth EP	Tyes Om an agency of the darea (in acres):	⊠No the Commonwealth, ir N/A	

MA DEP BRP WP 06 – Major Groundwater Discharge Permit – review pending Town of Southboro Conservation Commission – Negative Determination of Applicability

Which ENF or EIR review thr	eshold(s) does	the project m	neet or excee	ed (coo 204 OMB (1 5-))
☐ Land ☐ Water ☐ Energy ☐ ACEC	☐ Rare Spe ☑ Wastewar ☐ Air ☐ Regulation	cies 🗍	Wetlands, \ Transporta Solid & Ha: Historical &	Waterways, & Tidelands tion zardous Waste Archaeological
Summary of Project Size	Existing	Change	Resources Total	T
& Environmental Impacts		Jange	lotai	State Permits &
	LAND			Approvals
Total site acreage	3.42			☐ Order of Conditions☐ Superseding Order of
New acres of land altered		2	ï	Conditions
Acres of impervious area	0	0.07	0.07	Chapter 91 License
Square feet of new bordering vegetated wetlands alteration		0	0.07	☐ 401 Water Quality Certification ☐ MHD or MDC Access
Square feet of new other wetland alteration		0		Permit Water Management
Acres of new non-water dependent use of tidelands or waterways		0		Act Permit New Source Approval DEP or MWRA
STR	UCTURES			Sewer Connection/
Gross square footage	0	3000	3000	Extension Permit
Number of housing units	0		0	Other Permits (including Legislative
Maximum height (in feet)	0	35	35	Approvals) - Specify:
	PORTATION			
Vehicle trips per day	/	2		
Parking spaces	/		2	
	/ASTEWATE	"	2	
Gallons/day (GPD) of water use	,		50	
GPD water withdrawal	/	N/A	N/A	
GPD wastewater generation/	-,		N/A	
treatment		20,000	30,000	<u> </u>
Length of water/sewer mains (in miles)	/	0.04	0.04	
CONSERVATION LAND: Will the propagatural resources to any purpose not in Yes (Specify_ Will it involve the release of any conse				

restriction, or watershed preservation restriction?		
Yes (Specify	_)	⊠No
RARE SPECIES: Does the project site include Estimated Fare Species, or Exemplary Natural Communities?	labitat	of Rare Species, Vernal Pools, Priority Sites of ⊠No
HISTORICAL /ARCHAEOLOGICAL RESOURCES: Does t listed in the State Register of Historic Place or the inventory Commonwealth?	he pro	oject site include any structure, site or district storic and Archaeological Assets of the
Yes (Specify	of ar	⊠No by listed or inventoried historic or
☐Yes (Specify)	⊠No
AREAS OF CRITICAL ENVIRONMENTAL CONCERN: Is the Environmental Concern? Yes (Specify	ne pro)	ject in or adjacent to an Area of Critical ⊠No
PROJECT DESCRIPTION : The project description site, (b) a description of both on-site and off-site alternalized alternative, and (c) potential on-site and off-site mitigate attach one additional page, if necessary.)	shoul	d include (a) a description of the project

See Attachment

(b) Alternative Analysis

The entire project will consist of residential and commercial buildings, which generate up to 80,000 gpd of domestic wastewater per 310 CMR 15.203. There is no public domestic sewer in the Town of Southborough. The area of subdivision has very low permeable soil and cannot meet the percolation requirements in 310 CMR 15.00. Therefore, the project proponent will have to build a PSTF on-site. The PSTF will be a tertiary treatment system consisting of a Lotus system, dual dyna sand filters, and disposal fields. See attached Figure for schematic layout. The sewage sources include single-family houses, elderly housing, intensive care units, office complex, etc. The facility will provide wastewater treatment functions to domestic sewage only. Table 1 summarizes the planned usage of the development for the treatment facility.

Table 1. Summary of proposed project and sewage rate

Land use	Sewage flow rate, gpd	Subtotal sewage	Remarks
Elderly housing, 150 units	150 per unit	rate, gpd 22,500	
Single family houses, 38 lots Overlook Dr.	660 per lot	25,080	
Single family houses, 25 lots Newton St.	660 per lot	16,500	
Office, 160,000 sq. ft.	75 per 1000 sq. ft	12,000	
Community Center + others		3920	52,500 sq. ft
Total		80,000	22,500 sq. 1t

(c) Mitigation

In order to minimize the impact on environment, the highest water quality standard have been adopted in choosing the wastewater treatment. Tertiary treatment standard will be met before the treated water is further treated by soil absorption system building very permeable gravely sand. The site hosting the treatment facility and SAS, as described above, is currently open field, which will be mostly maintained as so under the post-development condition. The groundwater recharge will not have negative impact to the environment. At the current stage the treatment plant will not generate significant solid waste. The impact on traffic, energy, air quality, wildlife habitat, wetland, water supply, as discussed in the related section of ENF, will be negligible.

Project Description:

(a) Description of the Project Site

A tertiary private sewage treatment facility (PSTF) is proposed for construction on 3.42 acres of land off School Street in Southborough. See attached USGS locus map for general location and the project site plan for details. There is a 10-fit sewer easement across the railroad tracks of CSX. An 8-inch sewer line has been installed in a 10-inch steel case under the railroad easement. See the as-built railroad-crossing plan for details. Most of the sewage will be generated and transported from east of the railroad to the treatment and disposal site through this easement. The design and construction of housing will be a separate project in the Phase II development. This project is limited to the wastewater treatment plant only.

This site is located to the north of Route 30 (Main Street), between School Street and CSX railroad, to the south of the wastewater treatment facility for St. Mark's School. The site consists of Merrimac soil (NRCS Hydrologic Class A soil), well-drained gravelly sand. See Figure 2. The underlying bedrock is Westboro formation bedrock, which would be more than 40 ft below ground surface. The bedrock was formed during the Proterozoic Z age (620 million years ago); and is made of quartzite, schist, calc-silicate quartzite and amphibolite. The land uses of property consist of open field, shrubs, and clustered woods. Four abandoned old sewage leaching pits are located in the middle east of the property, which is fenced and covered by secondary growth of shrubs. This area will be cleaned up and used as part of new leaching field #1. Historic record review shows that the abandoned leaching pits were designed and constructed in 1971. The leaching pits stopped operation about 20 years ago in 1980s. A general plant list was documented during my site inspection for the site and its vicinity as shown in Table 1. It can be seen that the dominant plants are upland species.

Table 1. General Plant List

Trees:

White pine, white oak, red oak, red maple, white ash, Norway maple

Shrubs:

Hollow-stemmed honey suckle, stag-horn sumac, pin cherry, Russian olive, bittersweet vine, multiflora rose, Japanese barberry, willow, silky dogwood, steeple bush, poison ivy

Herbs:

Vetch, pokeweed, golden rod, hair cap moss, non-sphagnum moss, Japanese knotweed, millet, Virginia creeper.

The site surface hydrology drains from southwest to northeast, ultimately to Sudbury River Reservoir. The closest wetland is located about 280 ft to the north of the property; and over 300 ft from the proposed soil absorption system (SAS). No streams or rivers are located within 200 ft of the property. The area is not located in a 500-year or a 100-year floodplain according to MSGIS and FEMA flood insurance study. Southborough Conservation Commission made a negative determination on June 3, 2004 for the proposed project. No further conservation commission filing will be needed in the later process.

USGS Quadrangle Map, Mariboro 1983 School Street, Southboro, MA

