

ENF Environmental Notification Form

For Office Use Only
Executive Office of Environmental Affairs
 EOEA No.: **13376**
 MEPA Analyst: **Aisling Eglinton**
 Phone: 617-626-**1024**

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: Lot 3 Turnpike Road		
Street: Turnpike Road		
Municipality: Ashby	Watershed: Nashua River	
Universal Transverse Mercator Coordinates: 271434 - 4728181	Latitude: 42° 40' 17"N Longitude: 71° 47' 21"W	
Estimated commencement date: Fall or Summer 2005	Estimated completion date: Summer 2005	
Approximate cost: ~\$300,000	Status of project design: 100 %complete	
Proponent: Darlene Lielasus		
Street: 630 Turnpike Road		
Municipality: Ashby	State: MA	01431
Name of Contact Person From Whom Copies of this ENF May Be Obtained: Terry Gensel		
Firm/Agency: David E. Ross Associates, Inc	Street: 111 Fitchburg Road	
Municipality: Ayer	State: MA	01432
Phone: 978-772-6232	Fax: 978-772-6258	E-mail: tgensel@davidross.com

- Does this project meet or exceed a mandatory EIR threshold (see 301 CMR 11.03)?
 Yes No
- Has this project been filed with MEPA before?
 Yes (EOEA No. _____) No
- Has any project on this site been filed with MEPA before?
 Yes (EOEA No. _____) No
- Is this an Expanded ENF (see 301 CMR 11.05(7)) requesting:
 - 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 transfer from an agency of the Commonwealth, including the agency name and the amount of funding or land area (in acres): **N/A**

Are you requesting coordinated review with any other federal, state, regional, or local agency?
 Yes (Specify _____) No

List Local or Federal Permits and Approvals: **Order of Conditions - Conservation Commission.**

Which ENF or EIR review threshold(s) does the project meet or exceed (see 301 CMR 11.03):

- | | | |
|--|---------------------------------------|--|
| <input type="checkbox"/> Land | <input type="checkbox"/> Rare Species | <input checked="" type="checkbox"/> Wetlands, Waterways, & Tidelands |
| <input type="checkbox"/> Water | <input type="checkbox"/> Wastewater | <input type="checkbox"/> Transportation |
| <input type="checkbox"/> Energy | <input type="checkbox"/> Air | <input type="checkbox"/> Solid & Hazardous Waste |
| <input checked="" type="checkbox"/> ACEC | <input type="checkbox"/> Regulations | <input type="checkbox"/> Historical & Archaeological Resources |

Summary of Project Size & Environmental Impacts	Existing	Change	Total	State Permits & Approvals
LAND				<input checked="" type="checkbox"/> Order of Conditions <input type="checkbox"/> Superseding Order of Conditions <input type="checkbox"/> Chapter 91 License <input checked="" type="checkbox"/> 401 Water Quality Certification <input type="checkbox"/> MHD or MDC Access Permit <input type="checkbox"/> Water Management Act Permit <input type="checkbox"/> New Source Approval <input type="checkbox"/> DEP or MWRA Sewer Connection/Extension Permit <input type="checkbox"/> Other Permits <i>(including Legislative Approvals) – Specify:</i>
Total site acreage	3.55			
New acres of land altered		±1		
Acres of impervious area	0	Less than 1		
Square feet of new bordering vegetated wetlands alteration		1748		
Square feet of new other wetland alteration		28 feet Bank for Int. Stream		
Acres of new non-water dependent use of tidelands or waterways		N/A		
STRUCTURES				
Gross square footage	0	1800	1800	
Number of housing units	0 (house lot)	1 house	1	
Maximum height (in feet)	0	NA	NA	
TRANSPORTATION				
Vehicle trips per day	0	NA	NA	
Parking spaces	0	NA	NA	
WATER/WASTEWATER				
Gallons/day (GPD) of water use	0	~330 for 3 bedroom house (leach field)	~330	
GPD water withdrawal	0	~330	~330	
GPD wastewater generation/treatment	0	~330	~330	
Length of water/sewer mains (in miles)	NA	~40 feet line to leach field	~40'	

CONSERVATION LAND: Will the project involve the conversion of public parkland or other Article 97 public natural resources to any purpose not in accordance with Article 97?

- Yes (Specify _____) No

Will it involve the release of any conservation restriction, preservation restriction, agricultural preservation

restriction, or watershed preservation restriction?

Yes (Specify _____) No

RARE SPECIES: Does the project site include Estimated Habitat of Rare Species, Vernal Pools, Priority Sites of Rare Species, or Exemplary Natural Communities?

Yes (Specify _____) No

HISTORICAL /ARCHAEOLOGICAL RESOURCES: Does the project site include any structure, site or district listed in the State Register of Historic Place or the inventory of Historic and Archaeological Assets of the Commonwealth?

Yes (Specify _____) No

If yes, does the project involve any demolition or destruction of any listed or inventoried historic or archaeological resources?

Yes (Specify _____) No

AREAS OF CRITICAL ENVIRONMENTAL CONCERN: Is the project in or adjacent to an Area of Critical Environmental Concern?

Yes (Squannassit _____) No

PROJECT DESCRIPTION: The project description should include (a) a description of the project site, (b) a description of both on-site and off-site alternatives and the impacts associated with each alternative, and (c) potential on-site and off-site mitigation measures for each alternative (You may attach one additional page, if necessary.)

(a) PROJECT SITE

The proposed project site is located on Turnpike Road in Ashby. The driveway to the proposed house will cross an intermittent stream and associated Bordering Vegetated Wetlands in a ACEC/ORW and as a result requires an ENF. The 3.55 acre site is wooded with an intermittent stream crossing the front of the property and parallel to the street itself. The BVW boundary associated with the stream has a well defined boundary from the steep slopes. A small swale area also containing BVW borders the stream and runs along the northwest boundary as indicated on the plan. The project involves the construction of a single family house and associated leach field and well. The leach field and well are proposed outside of the 100' buffer zone to BVW and the house is located to the outer 100' Buffer Zone to BVW. The proposed wetland crossing for the driveway is proposed at a location that will have the least amount of wetland impacts. A boulder retaining wall was proposed to the edge of the driveway along the crossing to eliminate additional fill and grading into the wetland resource areas. The area within the intermittent stream itself may contain sparse BVW during the dry period which is the majority of the year, as a result the square footage was also included in the replication area. A total of 1,750 square feet of BVW was impacted from the driveway crossing and 2,630 square feet is proposed in the replication areas.

The long section of driveway on the north side of the intermittent stream and in close proximity to the house has been crowned in the middle to allow for stormwater to flow to both sides of the driveway. As a result proposed infiltration trenches on both sides of the driveway throughout this area will take on only half the stormwater volume. The proposed infiltration trenches will allow for no discharge to the wetland areas. A small section of driveway closer to the wetland crossing will discharge its stormwater runoff to a stone lined sediment sump with outlying riprap downslope. This will allow for the removal of TSS and significant infiltration. The driveway just before the crossing on the Turnpike Road side of the lot was elevated so that water does not discharge or erode the steeper down gradient side of the driveway. As a result there will be no potential for erosion to this slope.

Two 18 inch culverts are proposed underneath the driveway to carry the intermittent stream flows. The stormwater calculations for the watershed indicate that one 18 inch culvert was adequate to carry the 100 Year storm event (see attached stormwater calculations).

Wetland replication areas have been designed to mitigate effects of the proposed alteration and will be located just south of the proposed crossing. The two areas will allow for a direct hydrologic link to the adjacent wetland resource areas.

(b) ALTERNATIVES

1. *ALTERNATIVE DRIVEWAY CROSSING/ ADJACENT PROPERTY* – The driveway crossing was proposed at the narrowest BVW width in relation to the intermittent stream. Areas above and below this location would have significant additional impacts to BVW and Bank. Access from adjacent lots were also looked into. There is an existing driveway to a house to the west of the property owned by the applicant. The leach field and reserve area to the existing house is in close proximity to the wetlands that run along the western property line. As a result, a driveway through the side yard of the existing house is not possible because it would be over the existing leach field and reserve area. If the driveway was shifted to the property boundary off of a common drive it would run through the BVW along this region and would be a higher impact than the actual crossing itself.

4. *POTENTIAL ON-SITE AND OFF-SITE MITIGATION ALTERNATIVES* – Mitigation for the wetland impact from the driveway crossing is recommended to be in close proximity to the impact area itself. The two areas chosen are just outside of the steeper terrain at the crossing and will connect to the hydrology of the wetland and intermittent stream. As a result, off-site alternative mitigation for impacts are not recommended.