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.: 14166

MEPA Analyst Aick ZAvolas

Phone:

617-626-1030

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: Unkety	Brook and \$	Shattuck	Well Sites			
Street: Off Chicopee R	ow (Unkety	Brook)/ (Off Martins Pon	d Road (S	Shattuck W	ell)
Municipality: Groton, M			Watershed: Ur (Merrimack)			
Universal Tranverse Me Unkety Well #1 19 291626E 4723090N Shattuck Well #1 19 291709E 4721276N	Unkety We 19 290571 4723096N Shattuck V 19 291623 4721304N	ell #2 E Neil #2 E	Unkety Well #7 Latitude: 42.633 Longitude: 71.8 Shattuck Well Latitude: 42.61 Longitude: 71.5	2078 541294 #1 5781 39621	Unkety W 42.631845 71.541456 Shattuck \ 42.616009 71.540678	Well #2
Estimated commencem		10	Estimated com			
Approximate cost: \$6,8	•		Status of projec	<u>t design:</u>	25	%complete
Proponent: Town of G						
Street: Town Hall, 173	Main Stree	t	Ctata, BEA	7:- 0	J 04 450	
Municipality: Groton	10/h -	0	State: MA		de: 01450	
Name of Contact Perso Michael Zylich	in From vyno	om Copies	S OF THIS ENFINIA	y Be Obta	unea:	
Firm/Agency: Tighe &	Bond, Inc.		Street: 4 Barlo	ws Landi	ng Road. L	Init #15
Municipality: Pocasset			State: MA	_	de: 02559	
Phone: 508-564-7285		Fax: 508	3-564-4298		mjzylich@tighe	bond.com
Does this project meet or Has this project been filed Has any project on this si	d with MEPA t	obefore? □\	res res (EOEA No		? ⊠No) ⊠No	
The angle of the angle of			Yes (EOEA No) ⊠No	
Is this an Expanded ENF a Single EIR? (see 301 CM a Special Review Proce a Waiver of mandatory 1 a Phase I Waiver? (see 3	IR 11.06(8)) dure? (see 3010 EIR? (see 301 Cl	CMR 11.09)	esting: Yes Yes Yes Yes Yes Yes		⊠No ⊠No ⊠No ⊠No	
Identify any financial assi the agency name and the						cluding

Are you requesting coordinated review with any other federal, state, regional, or local agency?

Yes(Specify	_) [⊠No

List Local or Federal Permits and Approvals:

- Wetlands Order of Conditions for pumping test (completed)
- Filing of NOI for Wetlands Order of Conditions for construction of the final production wells, pumping test, water treatment plant and water main
- Planning and Zoning Site Plan Review

Which ENF or EIR rev	iew threshold(s) does the pro	ject meet or exceed (see 301 CMR 11.03):
Land	☐ Rare Species	
Water Water Weight Weight Weight Weight Weight Weight Weight Weight Weight Weight Weight Weight Weight Weight Weight Weight Weight Weight Weight Weight Weight Weight Weight Weight Weight Weight Weight Weight Weight Weight Weight Weight Weight Weight Weight	☐ Wastewater	☐ Transportation
☐ Energy	☐ Air	Solid & Hazardous Waste
ACEC	Regulations	Historical & Archaeological
	_	Resources

			Resources	
Summary of Project Size	Existing	Change	Total	State Permits &
& Environmental Impacts				Approvals
L	.AND			Order of Conditions
Total site acreage	30			Superseding Order of Conditions
New acres of land altered		<1		Chapter 91 License
Acres of impervious area	0	<0.5	<0.5	
Square feet of new bordering vegetated wetlands alteration		0		MHD or MDC Access Permit
Square feet of new other wetland alteration		<5,000		✓ Water Management Act Permit
Acres of new non-water dependent use of tidelands or waterways		0		
STRU	JCTURES			Other Permits
Gross square footage	200	800	1,000	(including Legislative Approvals) — Specify:
Number of housing units	0	0	0	Applovais) Opcony.
Maximum height (in feet)	10	15	15	
TRANS	PORTATION	J		
Vehicle trips per day	0	1	1	
Parking spaces	0	6	6]
WATER/WASTEWATER				
Gallons/day (GPD) of water use	0.43 MGD	0	0.43 MGD	
GPD water withdrawal	0.517 MGD	0	0.517 MGD	1
GPD wastewater generation/ treatment	0	0	0	

Length of water/sewer mains (in miles)	0.47 (Shattuck)**	1.76 (Unkety) 0.47 (Shattuck)	2.23		
* The current gpd of water use is based on 2005 pumping data. The 2006 permitted and registered gpd water withdrawal is 0.517 MGD from the Water Management Act Permit (9P-2-13-115.01) for the Town of Groton. The new Shattuck wells are for replacement of existing Shattuck Well that is no longer in operation due to poor water quality and the Unkety Brook well will provide for additional system.					

reliability.

**Although the Town currently has water mains within the existing service area, there are no water mains in the new well area for the Unkety Brook site well site area. The new water main for the Shattuck well site will parallel the existing water main easement.

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.)

The Town currently operates two public water supplies, one located in the Cow Pond Brook sub-basin and the other in the Baddacook Brook sub-basin. The water supplies are the Whitney Pond Well (PWS ID 211500-036) located northeast of Whitney Pond and south of Route 40 and the Baddacook Well (PWS ID

2115000-02G) located south of Baddacook Pond and north of Route 40. An additional source, Shattuck Well (PWS ID 2115000-01G), is no longer in active operation due to poor water quality. The Shattuck well has been inactive since the 1980's due to high levels of iron, manganese and organic and is currently not in operable condition.

Shattuck

Two new 12-inch diameter water supply production wells have been proposed for the Shattuck site. The Shattuck site has been selected based on favorable pump test data obtained following the installation and pump testing of two 8-inch diameter test wells. Pumping activities performed as part of the study included individual and combined step drawdown pumping test, individual 24-hour short duration pumping tests, and a combined extended duration (5 day) pump test. Drawdown information was collected during each test which provided site specific information regarding safe yield of the surrounding aquifer.

The proposed Shattuck water main route starts at the Shattuck Well site and includes a 6-inch diameter pipe that will follow a 2,500 foot route east along the existing piping to the Baddacook Well Water Filtration Plant. The route will cross a regulated resource area as it will parallel the existing pipeline along the narrow and limited available easement route.

The proposed route involves construction through land owned by the Town of Groton and several private properties. The Groton Water Department has an existing easement through these plots of land for the existing water main. The construction of the proposed pipeline will be within the existing easement.

Though the route will parallel the existing pipeline, this new construction will not qualify for a Massachusetts Wetlands Protection Act (MA WPA) exemption since it is not limited to the maintenance, repair or replacement of an existing and lawfully located structure in the service of the public. This alternative will result in direct, though temporary, impacts to Bordering Vegetated Wetlands (BVW) and/or Isolated Vegetated Wetlands (IVW) that will likely be less than a total of 5,000 square feet. Work will also occur within the Town's 50-foot No Disturbance Zone and the 100-foot Buffer Zone to wetland resource areas. The route is also located within Priority and Estimated Habitat of State-listed species and within the limits of the Petapawag Area of Critical Environmental Concern (ACEC).

Pertinent regulatory programs associated with this route include the Town of Groton's Chapter 215, the MA WPA, the Massachusetts Clean Waters Act (401 Water Quality Certification), Section 404 of the Federal Clean Water Act, Massachusetts Endangered Species Act (MESA), and the Massachusetts Environmental Policy Act (MEPA). It is likely this route will require construction monitoring by a NHESP-authorized biologist.

Description	Mitigation	Enforcement
Land Use/Farmland	No Mitigation Required	
Floodplains	No Mitigation Required	
Wetlands	Erosion & Sediment Controls, Restoration of Disturbed Areas	Groton Conservation Commission
Cultural Resources	No Mitigation Required	
Biological Resources	No Mitigation Required	
Water Quality Issues	Shattuck Well Water Treatment,	Will be specifically addressed in the Construction Specifications
	Erosion & Sediment Controls, Restoration of Disturbed Areas	Groton Conservation Commission
Coastal Resources	No Mitigation Required	
Socio-Economic/ Environmental Justice Issues	No Mitigation Required	

Air Quality	Dust Control, water spray	Will be specifically addressed in the Construction Specifications
Transportation	Traffic Control, police and signage	Will be specifically addressed in the Construction Specifications
Noise	Noise Control, limited work hours	Will be specifically addressed in the Construction Specifications

Unkety

Two new 12-inch diameter water supply production wells have been proposed for the Unkety site. The Unkety site has been selected based on favorable pump test data obtained following the installation and pump testing of two 12-inch diameter test wells. Pumping activating performed as part of the study included individual and combined step drawdown pumping test, individual 24-hour short duration pumping tests, and a combined extended duration (5 day) pump test. Drawdown information was collected during each test which provided site specific information regarding safe yield of the surrounding aquifer.

The proposed Unkety route starts at the Unkety Brook site and includes a 6-inch diameter pipe that will be installed approximately 1,500 feet northwest cross country along existing paths and driveways through private property to Chicopee Row. A private lot across Chicopee Row will be used for a small treatment building. Then an 8-inch pipe will be installed southwesterly 7,800 feet along Chicopee Row to connect with the existing water distribution system at the intersection with Blossom Lane and Longley Road.

This route will require an agreement for construction of the water main through lands of the Town of Groton. This land is under the jurisdiction of the Conservation Commission as conservation land and requires a Conservation Commission agreement and easement and a construction Order of Conditions permit. Additional easements will be required for activities on private land.

The proposed route does not have any challenging terrain and the existing path/driveway leading out to Chicopee Row has sufficient horizontal clearance for trenching and equipment, therefore trenching is feasible along this route. There are some construction constraints due to the two stream crossings, as well as dewatering due to shallow groundwater along this route. The eastern stream crossing is a culvert under the street, so it should be easy to install piping below, however dewatering shallow groundwater due to the proximity of the wetland will pose a challenge. The western stream crossing is more difficult and would require special construction considerations to install below an active stream. These two stream crossings increase the construction difficulty and environmental permitting requirements of installation for this route. Additionally disturbance next to the wetland area would need to be minimized.

The proposed location of the treatment building is adjacent to a wetland and therefore the high groundwater will pose a constraint during construction. The western border of the site has an intermittent stream, therefore the treatment building would be placed toward the eastern portion of the lot, if possible. The pipeline route along the existing Chicopee Row does not have any unusual construction constraints. Work activities along the public roadways will require traffic details.

The construction of this route does not appear likely to directly impact Bordering (or Isolated) Vegetated Wetlands (BVW/IVW) or Land Under Water Bodies and Waterways (LUWW). However, work will occur within the 200-foot Riverfront Area of Unkety Brook and require crossing at least two culverted streams (one perennial, one intermittent), as well as the Town's 50-foot No Disturbance Zone and the 100-foot Buffer Zone to wetland resource areas. Design will be prepared so construction activities will not disrupt normal stream flows through existing culverts. The majority of the route is also located within Priority and Estimated Habitat of State-listed species and within the limits of the Petapawag Area of Critical Environmental Concern (ACEC).

Pertinent regulatory programs associated with this route include the Town of Groton Wetlands Protection Bylaw and Regulations, the Massachusetts Wetlands Protection Act, the Massachusetts Endangered Species Act, and the Massachusetts Environmental Policy Act. It is likely that this route

will require construction monitoring by a NHESP-authorized biologist.

Description	Mitigation	Enforcement
Land Use/Farmland	No Mitigation Required	
Floodplains	No Mitigation Required	
Wetlands	Erosion & Sediment Controls, Restoration of Disturbed Areas	Groton Conservation Commission
Cultural Resources	No Mitigation Required	
Biological Resources	No Mitigation Required	
Water Quality Issues	No Mitigation Required	
Coastal Resources	No Mitigation Required	
Socio-Economic/ Environmental Justice Issues	No Mitigation Required	
Air Quality	Dust Control, water spray	Will be specifically addressed in the Construction Specifications
Transportation	Traffic Control, police and signage	Will be specifically addressed in the Construction Specifications
Noise	Noise Control, limited work hours	Will be specifically addressed in the Construction Specifications