

CT DEEP IWRD Application Dam Construction Permit

Town of East Hartford Flood Control System Toe Drain Replacement Phase 1

March 2019

Application Documents Submitted

- Permit Application Transmittal Form
- *Certification of Notice Form-Notice of Application (to be submitted separately after application)*
- Permit Application for Programs Administered by the IWRD (Type of Permit- Dam Construction)

Attachment A: Executive Summary

Attachment B: USGS Quad Map

Attachment C: *Doc. Form Inland Wetlands, SCEL, etc. - Not Applicable*

Attachment D: *Doc. Form for Water Diversion Permit - Not Applicable*

Attachment E: Documentation Form for a Dam Construction Permit

Attachment F: *Doc. Form for Flood Management Cert. - Not Applicable*

Attachment G: Plan Sheets and Drawings

Attachment H: Engineering Documentation

Part 1 Engineering Report Checklist and Engineering Report

Part 2 Hydrologic and Hydraulic Consistency Worksheet

Attachment I: Flood Contingency Plan

Attachment J: *Soil Scientist Report - Not Applicable*

Attachment K: *Environmental Report - Not Applicable*

Attachment L: *Mitigation Report - Not Applicable*

Attachment M: Alternatives Analysis

Attachment N: Applicant Compliance Form

Attachment O: Applicant Background Information

Attachment Q: Other Information (Dam Safety Permit DS-200900926
& NDDB NOD 201901835)



Connecticut Department of Energy & Environmental Protection

CPPU USE ONLY

App #: _____

Doc #: _____

Check #: _____

Permit Application Transmittal Form

Please complete this transmittal form in accordance with the instructions in order to ensure the proper handling of your application(s) and the associated fee(s). Print legibly or type.

Part I: Applicant Information:

- *If an applicant is a corporation, limited liability company, limited partnership, limited liability partnership, or a statutory trust, it must be registered with the Secretary of State. If applicable, applicant's name shall be stated exactly as it is registered with the Secretary of State.
If an applicant is an individual, provide the legal name (include suffix) in the following format: First Name; Middle Initial; Last Name; Suffix (Jr, Sr., II, III, etc.).

Applicant: Town of East Hartford
Mailing Address: 740 Main Street
City/Town: East Hartford State: CT Zip Code: 06108
Business Phone: 860-291-7383 ext.:
Contact Person: Douglas Wilson Phone: 860-291-7383 ext.
E-Mail: dwilson@easthartfordct.gov
Applicant (check one): [] individual [] *business entity [] federal agency [] state agency [x] municipality [] tribal
*If a business entity, list type (e.g., corporation, limited partnership, etc.):
[] Check if any co-applicants. If so, attach additional sheet(s) with the required information as supplied above.
Please provide the following information to be used for billing purposes only, if different:
Company/Individual Name:
Mailing Address:
City/Town: State: Zip Code:
Contact Person: Phone: ext.

Part II: Project Information

Brief Description of Project: (Example: Development of a 50 slip marina on Long Island Sound)
Replacement of existing levee toe drain system within the Town of East Hartford flood control system. New toe drain will replace 2,500 +/-ft. of existing toe drain system within the footprint of existing toe drain system.
Location (City/Town): East Hartford
Other Project Related Permits (not included with this form):
Table with 6 columns: Permit Description, Issuing Authority, Submittal Date, Issuance Date, Denial Date, Permit #

Part III: Individual Permit Application and Fee Information

New, Mod. or Renew	Individual Permit Applications	Initial Fees	No. of Permits Applied For	Total Initial Fees	Original + Required Copies
	AIR EMISSIONS				
	New Source Review <input type="checkbox"/> Revision <input type="checkbox"/> minor mod	\$940.00			1 + 0
	Title V Operating Permits <input type="checkbox"/> Revision <input type="checkbox"/> minor mod <input type="checkbox"/> non-minor mod	none			1 + 0
	Title IV	none			1 + 0
	Clean Air Interstate Rule (CAIR)	none			1 + 0
	WATER DISCHARGES				
	To Groundwater	\$1300.00			1 + 1
	To Sanitary Sewer (POTW)	\$1300.00			1 + 1
	To Surface Water (NPDES)	\$1300.00			1 + 1
	WATER PLANNING AND MANAGEMENT				
(X)	Dam Safety	none	1	0	1 + 2
	Domestic Sewage Treatment Works (For municipal and private sewage treatment facilities discharging to surface waters)	\$1300.00/ Mod = \$940			1 + 1
	Water Diversion (consumptive) and Registrations	★			1 + 5
	LAND AND WATER RESOURCES				
	Flood Management Certification	none			1 + 1
	Flood Management Certification Exemption	none			1 + 1
	Inland Wetlands and Watercourses (State Agencies Only)	none			1 + 5
	Inland 401 Water Quality Certification	none			1 + 5
	FERC- Hydropower Projects- 401 Water Quality Certification	none			
	Water Diversion (non-consumptive)	★			1 + 5
	Certificate of Permission	\$375.00			1 + 2
	Coastal 401 Water Quality Certification	none			1 + 2
	Structures and Dredging/and Fill/Tidal Wetlands	\$660.00			1 + 2
	WASTE MANAGEMENT				
	Aerial Pesticide Application	★			1 + 2
	Aquatic Pesticide Application	\$200.00			1 + 0
	CGS Section 22a-454 Waste Facilities	★			1 + 1
	Disruption of a Solid Waste Disposal Area	\$0			1 + 1
	Hazardous Waste Treatment, Storage and Disposal Facilities	★			1 + 1
	Marine Terminal License	\$100.00			1 + 0
	Stewardship	\$4000.00			1 + 1
	Solid Waste Facilities	★			1 + 1
	Waste Transportation	★			1 + 0
		Subtotal ➡	1		
GENERAL PERMITS and AUTHORIZATIONS		Subtotals Page 3 & 4 ➡	0		
Enter subtotals from Part IV, pages 3 - 6 of this form		Subtotals Page 5 ➡	0		
		Subtotals Page 6 ➡	0		
		TOTAL ➡	1	0	
<input checked="" type="checkbox"/> Indicate whether municipal discount or state waiver applies. Less Applicable Discount ➡				n/a	
		AMOUNT REMITTED ➡		0	
Check # ➡	<input type="text"/>	Check or money order should be made payable to: "Department of Energy and Environmental Protection"			

★ See fee schedule on individual application.

**Part IV: General Permit Registrations and Requests for Other Authorizations
Application and Fee Information**

✓	General Permits and Other Authorizations	Initial Fees	No. of Permits Applied For	Total Initial Fees	Original + Required Copies
AIR EMISSIONS					
<input type="checkbox"/>	Limit Potential to Emit from Major Stationary Sources of Air Pollution	\$2760.00			1 + 0
<input type="checkbox"/>	Diagnostic and Therapeutic X-Ray Devices (Medical X-Ray) Registration	\$190.00/Xray device			1 + 0
<input type="checkbox"/>	Radioactive Materials and Industrial Device Registration (Ionizing Radiation)	\$200.00			1 + 0
<input type="checkbox"/>	Emergency/Temporary Authorization	★★			★★
<input type="checkbox"/>	License Revocation Request	\$0			★★
<input type="checkbox"/>	Other, (please specify):				
WATER DISCHARGES					
Categorical Industry User to a POTW					
<input type="checkbox"/>	Discharges ≥ 10,000 gpd	\$6250.00			1 + 0
<input type="checkbox"/>	Discharges < 10,000 gpd	\$3125.00			
Comprehensive Discharges to Surface Water and Groundwater					
<input type="checkbox"/>	Registration Only	\$625.00			1 + 0
<input type="checkbox"/>	Approval of Registration by DEEP	\$1250.00			
<input type="checkbox"/>	Domestic Sewage	\$625.00			1 + 0
<input type="checkbox"/>	Food Service Establishment Wastewater	No Registration			
Groundwater Remediation Wastewater					
<input type="checkbox"/>	Registration Only	\$625.00			1 + 0
<input type="checkbox"/>	Approval of Registration by DEEP	\$1250.00			
Miscellaneous Discharges of Sewer Compatible Wastewater					
<input type="checkbox"/>	Registration Only	\$500.00			1 + 0
<input type="checkbox"/>	Approval of Registration by DEEP	\$1000.00			
<input type="checkbox"/>	Nitrogen Discharges	No Registration			
<input type="checkbox"/>	Point Source Discharges from Application of Pesticides	\$200.00			1 + 0
<input type="checkbox"/>	Stormwater Associated with Commercial Activities	\$300.00			1 + 0
Stormwater Associated with Industrial Activities					
<input type="checkbox"/>	No Exposure Certification	\$250.00			1 + 0
<input type="checkbox"/>	<50 employees—see general permit for additional requirements	\$500.00			
<input type="checkbox"/>	>50 employees—see general permit for additional requirements	\$1000.00			
<input type="checkbox"/>	Stormwater & Dewatering Wastewaters-Construction Activities	★			1 + 0
<input type="checkbox"/>	Stormwater from Small Municipal Separate Storm Sewer Systems (MS4)	\$625.00			1 + 0
<input type="checkbox"/>	Stormwater from DOT Separate Storm Sewer Systems (DOT MS4)	\$0			1 + 0
<input type="checkbox"/>	Subsurface Sewage Disposal Systems Serving Existing Facilities	★★			1 + 0
<input type="checkbox"/>	Swimming Pool Wastewater - Public Pools and Contractors	\$500.00			1 + 0
Vehicle Maintenance Wastewater					
<input type="checkbox"/>	Registration Only	\$625.00			1 + 0
<input type="checkbox"/>	Approval of Registration by DEEP	\$1250.00			
<input type="checkbox"/>	Emergency/Temporary Authorization - Discharge to POTW	\$1500.00			1 + 0
<input type="checkbox"/>	Emergency/Temporary Authorization - Discharge to Surface Water	\$1500.00			1 + 0
<input type="checkbox"/>	Emergency/Temporary Authorization - Discharge to Groundwater	\$1500.00			1 + 0
<input type="checkbox"/>	Other, (please specify):				
Note: Carry subtotals over to Part III, page 2 of this form.		Subtotal ➡			

★ See fee schedule on registration/application.

★★ Contact the specific permit program for this information.
(Contact numbers are provided in the instructions)

Part IV: General Permit Registrations and Requests for Other Authorizations (continued)

<input checked="" type="checkbox"/> General Permits and Other Authorizations	Initial Fees	No. of Permits Applied For	Total Initial Fee	Original + Required Copies
AQUIFER PROTECTION PROGRAM				
<input type="checkbox"/> Registration for Regulated Activities	\$625.00			1 + 0
<input type="checkbox"/> Permit Application to Add a Regulated Activity	\$1250.00			1 + 0
<input type="checkbox"/> Exemption Application from Registration	\$1250.00			1 + 0
WATER PLANNING AND MANAGEMENT				
<input type="checkbox"/> Dam Safety Repair and Alteration: Non Filing	No Registration			
<input type="checkbox"/> Dam Safety Repair and Alteration: Filing – No PE	\$100.00			1 + 0
<input type="checkbox"/> Dam Safety Repair and Alteration: Filing – PE	\$200.00			1 + 0
<input type="checkbox"/> Dam Safety Repair and Alteration: Approval of Filing	\$250.00			1 + 0
<input type="checkbox"/> Diversion of Remediation Groundwater	No Registration			
<input type="checkbox"/> Diversion of Water for Consumptive Use: Reauthorization Categories	\$2500.00			1 + 0
<input type="checkbox"/> Diversion of Water for Consumptive Use: Authorization Required	\$2500.00			1 + 4
<input type="checkbox"/> Diversion of Water for Consumptive Use: Filing Only	\$1500.00			1 + 1
<input type="checkbox"/> Water Resource Construction Activities	★			1 + 0
<input type="checkbox"/> Emergency/Temporary Authorization	★★			★★
<input type="checkbox"/> Notice of High Hazard Dam or a Significant Hazard Dam	\$0			1 + 0
<input type="checkbox"/> Other, (please specify):				
LAND AND WATER RESOURCES				
Minor Coastal Structures				
<input type="checkbox"/> 4/40 Docks/Access Stairs	\$700.00			1 + 1
<input type="checkbox"/> Beach Grading	No Registration			
<input type="checkbox"/> Buoys or Markers	No Registration			
<input type="checkbox"/> Experimental Activities/Scientific Monitoring Devices	No Registration			
<input type="checkbox"/> Harbor Moorings	No Registration			
<input type="checkbox"/> Non-harbor Moorings	\$250.00			1 + 1
<input type="checkbox"/> Osprey Platforms and Perch Poles	No Registration			
<input type="checkbox"/> Pump-out Facilities	No Registration			
<input type="checkbox"/> Swim Floats	No Registration			
Coastal Maintenance				
<input type="checkbox"/> Backflow Prevention Structure	No Registration			
<input type="checkbox"/> Beach Grading/Raking	No Registration			
<input type="checkbox"/> Catch Basin Cleaning	No Registration			
<input type="checkbox"/> Coastal Remedial Activities Required by Order	\$700.00			1 + 1
<input type="checkbox"/> Coastal Restoration	No Registration			
<input type="checkbox"/> DEEP Boat Launch Infrastructures	No Registration			
<input type="checkbox"/> DOT Infrastructures	No Registration			
<input type="checkbox"/> Marina and Mooring Field Reconfiguration	\$700.00			1 + 1
<input type="checkbox"/> Minor Seawall Repair	No Registration			
<input type="checkbox"/> Placement of Cultch	No Registration			
<input type="checkbox"/> Reconstruction of Legally Existing Structure/Obstruction/Encroachment	\$300.00			1 + 1
<input type="checkbox"/> Removal of Derelict Structures	No Registration			
<input type="checkbox"/> Residential Flood Hazard Mitigation	\$100.00			1 + 1
<input type="checkbox"/> Temporary Access of Construction Vehicles/Equipment	No Registration			
<input type="checkbox"/> Programmatic General Permit	★			1 + 1
<input type="checkbox"/> Emergency/Temporary Authorization				
<input type="checkbox"/> Other, (please specify):				
Note: Carry subtotals over to Part III, page 2 of this form.		Subtotal ➔		

★ See fee schedule on registration/application.

★★ Contact the specific permit program for this information.
(Contact numbers are provided in the instructions)

Part IV: General Permit Registrations and Requests for Other Authorizations (continued)

<input checked="" type="checkbox"/> General Permits and Other Authorizations	Initial Fees	No. of Permits Applied For	Total Initial Fee	Original + Required Copies
WASTE MANAGEMENT				
<input type="checkbox"/> Addition of Grass Clippings at Registered Leaf Composting Facilities	\$500.00			1 + 0
<input type="checkbox"/> Beneficial Use Determination	★			1 + 0
<input type="checkbox"/> Collection and Storage of Post Consumer Paint	\$0			1 + 0
<input type="checkbox"/> Connecticut Solid Waste Demonstration Project	\$1000.00			1 + 0
Construct and Operate a Commercial Facility for the Management of Recyclable Materials and Certain Solid Wastes (Commercial GP)				
<input type="checkbox"/> Asbestos Containing Materials	\$1,250.00/\$ 625			1 + 0
<input type="checkbox"/> Ash Residue	\$1,250.00/\$ 625			1 + 0
<input type="checkbox"/> Clean Wood: Tier III	\$500.00/\$250			1 + 0
<input type="checkbox"/> Clean Wood: Tier II	\$250.00/\$125			1 + 0
<input type="checkbox"/> Construction and Demolition Waste: Tier III	\$1,250.00/\$625			1 + 0
<input type="checkbox"/> Construction and Demolition Waste: Tier II	\$500.00/\$250			1 + 0
<input type="checkbox"/> Non-RCRA Hazardous Waste/Compatible Solid Wastes	\$1,250.00/\$625			1 + 0
<input type="checkbox"/> Recyclables	\$500.00/\$250			1 + 0
<input type="checkbox"/> Universal Wastes/Compatible Solid Wastes	\$1,250.00/\$625			1 + 0
Contaminated Soil and/or Staging Management (Staging/Transfer)				
<input type="checkbox"/> New Registrations	\$250.00			1 + 0
<input type="checkbox"/> New Approval of Registrations	\$1500.00			1 + 0
<input type="checkbox"/> Renewal of Registrations	\$250.00			1 + 0
<input type="checkbox"/> Renewal of Approval of Registrations	\$750.00			1 + 0
<input type="checkbox"/> Disassembling Used Electronics	\$2000.00			1 + 0
<input type="checkbox"/> Leaf Composting Facility	\$0			1 + 1
<input type="checkbox"/> Municipal Transfer Station	\$800.00			1 + 1
<input type="checkbox"/> One Day Collection of Certain Wastes and Household Hazardous Waste	\$1000.00			1 + 0
<input type="checkbox"/> Sheet Leaf Composting Notification	\$0			★★
Special Waste Authorization				
<input type="checkbox"/> Landfill or RRF Disposal	\$660.00			1 + 0
<input type="checkbox"/> Asbestos Disposal	\$300.00			
<input type="checkbox"/> homeowner	\$0			
<input type="checkbox"/> Storage and Processing of Asphalt Roofing Shingle Waste	\$2500.00			1 + 0
<input type="checkbox"/> Storage and Processing of Scrap Tires for Beneficial Use	\$1250.00			1 + 0
<input type="checkbox"/> Emergency/Temporary Authorization	★★			★★
<input type="checkbox"/> Other, (please specify):				
REMEDIATION				
<input type="checkbox"/> In Situ Groundwater Remediation: Enhance Aerobic Biodegradation	★			1 + 2
<input type="checkbox"/> In Situ Groundwater Remediation: Chemical Oxidation	\$500.00			1 + 0
<input type="checkbox"/> Emergency/Temporary Authorization	★			★★
Note: Carry subtotals over to Part III, page 2 of this form.		Subtotal →		

★ See fee schedule on registration/application.

★★ Contact the specific permit program for this information.

(Contact numbers are provided in the instructions)

Affirmative Action, Equal Employment Opportunity and Americans with Disabilities

The Connecticut Department of Energy and Environmental Protection is an Affirmative Action/Equal Opportunity Employer that is committed to complying with the requirements of the Americans with Disabilities Act (ADA). Please contact us at (860) 418-5910 or deep.accommodations@ct.gov if you: have a disability and need a communication aid or service; have limited proficiency in English and may need information in another language; or if you wish to file an ADA or Title VI discrimination complaint.



Permit Application for Programs Administered by the Inland Water Resources Division

Please complete this application form in accordance with the instructions (DEP-IWRD-INST-100) in order to ensure the proper handling of your application. Print or type unless otherwise noted. You must submit the *Permit Application Transmittal Form* (DEP-APP-001) and the initial fee along with this form.

DEP USE ONLY

Part I: Application Type

Check the appropriate box identifying the application type.

<p>This application is for (check one):</p> <p><input checked="" type="checkbox"/> A <i>new</i> application</p> <p><input type="checkbox"/> A <i>renewal</i> of an existing permit</p> <p><input type="checkbox"/> A <i>modification</i> of an existing permit</p>	<p>Please identify any previous or existing permit/authorization/registration number in the space provided.</p> <p>Existing permit/authorization/registration number:</p> <p>Expiration Date:</p>
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Part II: Permit Type and Fee Information

Please note: effective August 21, 2003, the application fees for the programs administered by the Inland Water Resources Division have increased as listed in the following table. The fee for municipalities is 50% of the listed rates.

Type of Permit (check <i>all</i> that apply):	Fee to submit with application:
<input type="checkbox"/> Inland Wetlands & Watercourses CGS Sec. 22a-36 et seq.	none
<input checked="" type="checkbox"/> Dam Construction CGS Sec. 22a-403	none
<input type="checkbox"/> 401 Water Quality Certificate 33 U.S.C. 1341	none
<input type="checkbox"/> Flood Management Certification CGS Sec. 25-68(b) - (h)	none
Stream Channel Encroachment CGS Sec. 22a-342	
<input type="checkbox"/> No change in grade and no construction of above-ground structures	\$470.00
<input type="checkbox"/> A change in grade and no construction of above-ground structures	\$940.00
<input type="checkbox"/> A change in grade and above-ground structures or buildings	\$4,000.00
Water Diversion: Consumptive Use CGS Sec. 22a-372(e)	
<input type="checkbox"/> Withdrawal > 0.05 and < 0.5 mgd	\$2,050.00
<input type="checkbox"/> Withdrawal ≥ 0.5 and < 2.0 mgd	\$4,000.00
<input type="checkbox"/> Withdrawal ≥ 2.0 mgd	\$6,250.00
Water Diversion: Nonconsumptive Use CGS Sec. 22a-372(e)	
<input type="checkbox"/> Watershed < 0.5 sq mi	\$2,050.00
<input type="checkbox"/> Watershed ≥ 0.5 sq mi and < 2.0 sq mi	\$4,000.00
<input type="checkbox"/> Watershed ≥ 2.0 sq mi	\$6,250.00

Part III: Applicant Information

1. Fill in the name of the applicant(s) as indicated on the *Permit Application Transmittal Form* (DEP-APP-001):
Applicant: **Town of East Hartford**
Phone: **860-291-7380** ext. Fax:
 Check here if there are co-applicants. If so, label and attach additional sheet(s) with the required information to this sheet.

2. Applicant's interest in property at which the proposed activity is to be located:
 site owner option holder lessee
 easement holder operator other (specify):

3. List primary contact for departmental correspondence and inquiries, if different than the applicant.
Name: **John McGrane, PE, CFM, GEI Consultants, Inc.**
Mailing Address: **455 Winding Brook Drive**
City/Town: **Glastonbury** State: **CT** Zip Code: **06033**
Business Phone: **860-368-5426** ext. Fax:
Contact Person: **John McGrane** Title:

4. List attorney or other representative, if applicable:
Firm Name:
Mailing Address:
City/Town: State: Zip Code:
Business Phone: ext. Fax:
Attorney:

5. Facility or Property Owner, if different than the applicant:
Name:
Mailing Address:
City/Town: State: Zip Code:
Business Phone: ext. Fax:
Contact Person: Title:

Home address of owner (for Inland Wetlands applications only):
Mailing Address:
City/Town: State: Zip Code:
Home Phone:

Part III: Applicant Information (continued)

6. List any engineer(s) or other consultant(s) employed or retained to assist in preparing the application or in designing or constructing the activity. Check here if additional sheets are necessary, and label and attach them to this sheet.

Name: **GEI Consultants, Inc.**

Mailing Address: **455 Winding Brook Drive**

City/Town: **Glastonbury**

State: **CT**

Zip Code: **06033**

Business Phone: **860-368-5426**

ext.

Fax:

Contact Person: **John McGrane, PE, CFM**

Title: **Sr. Consultant**

Service Provided: **Project designer**

Part IV: Site Information

1. Site Location:

- a. Name of facility, if applicable: **East Hartford Flood Control System**

Street Address or Description of Location: **211 & 301 East River Drive**

City/Town: **East Hartford**

State: **CT**

Zip Code: **06108**

Project No., if applicable:

- b. Tax Assessor's Reference: Map **1**

Block **na**

Lot **2&3**

(Assessor's reference is not required if requester is an agency of the State of Connecticut.)

- c. Latitude and Longitude of the approximate "center of the site" in *degrees, minutes, and seconds*:

Latitude: **41.765**

Longitude: **-72.664**

Method of determination (check one):

GPS USGS Map Other (please specify): **CT ECO Mapping**

If a USGS Map was used, provide the quadrangle name:

- d. Drainage Basin number(s) wherein the proposed activity will take place: **4000-00-6+ R7**

- e. Flood Insurance Rate Map Panel Number: **09003C0368G**

Date of the map referenced: **9/16/2011**

- f. If applying for a SCEL permit, identify the property wherein the proposed activity will take place by indicating the following:

SCEL Map number(s):

Property Identifier:

Date of the map referenced:

2. **COASTAL BOUNDARY:** Is the activity which is the subject of this application located within the coastal boundary as delineated on DEP approved coastal boundary maps? Yes No

If yes, and this application is for a new permit or for a modification of an existing permit, you must submit a *Coastal Consistency Review Form* (DEP-APP-004) with your application as Attachment P.

Information on the coastal boundary is available at the local town hall or on the "Coastal Boundary Map" available at DEP Maps and Publications (860-424-3555).

Part IV: Site Information (continued)

- 3. ENDANGERED OR THREATENED SPECIES:** Is the project site located within an area identified as a habitat for endangered, threatened or special concern species as identified on the "State and Federal Listed Species and Natural Communities Map"? Yes No Date of Map: **December 2018**

If yes, complete and submit a *Connecticut Natural Diversity Data Base (CT NDDB) Review Request Form* (DEP-APP-007) to the address specified on the form. **Please note NDDB review generally takes 4 to 6 weeks and may require additional documentation from the applicant. DEP strongly recommends that applicants complete this process before submitting the subject application.**

When submitting this application form, include copies of any correspondence to and from the NDDB, including copies of the completed *CT NDDB Review Request Form*, as Attachment K (Environmental Report) or in Attachment Q if no environmental report is required.

For more information visit the DEP website at www.ct.gov/dep/endorangeredspecies (Review/Data Requests) or call the NDDB at 860-424-3011.

- 4. AQUIFER PROTECTION AREAS:** Is the site located within a town required to establish Aquifer Protection Areas, as defined in section 22a-354a through 354bb of the General Statutes (CGS)?

Yes No

If yes, is the site within an area identified on a Level A or Level B map? Yes No

To view the applicable list of towns and maps visit the DEP website at www.ct.gov/dep/aquiferprotection

To speak with someone about the Aquifer Protection Areas, call 860-424-3020.

- 5. CONSERVATION OR PRESERVATION RESTRICTION:** Is the property subject to a conservation or preservation restriction? Yes No

If Yes, proof of written notice of this application to the holder of such restriction or a letter from the holder of such restriction verifying that this application is in compliance with the terms of the restriction, must be submitted as Attachment Q.

- 6. Other Permits:** List any previous federal, state or local permits or certificates that have already been issued for the site or for the proposed activity:

<u>Type or Nature of Permit</u>	<u>Permit No. Issuing Authority</u>	<u>Date Issued</u>	<u>Expiration Date</u>	<u>Permittee Name</u>
CT DEEP Dam Safety	200900926	2010	2012	Town E. Hartford
USACE	NAE2008-1144	2013	n/a	Town E. Hartford
P&Z	n/a	2009	n/a	Town E. Hartford

Part V: Supporting Documents

Please check the attachments submitted as verification that *all* applicable attachments have been submitted with this application form. When submitting any supporting documents, please label the documents as indicated in this part (e.g., Attachment A, etc.) and be sure to include the applicant's name as indicated on the *Permit Application Transmittal Form*. The specific information required in each attachment is described in the *Instructions for Completing A Permit Application for Inland Water Resources Division Activities* (DEP-IWRD-INST-100).

- Attachment A: Executive Summary
- Attachment B: An 8 1/2" x 11" copy of a United States Geological Survey (USGS) Topographic Quadrangle Map (scale: 1:24,000) with the regulated activity or project site outlined or pinpointed, as appropriate.
- Attachment C: *Documentation Form for: Inland Wetlands and Watercourses Permit, Stream Channel Encroachment Line Permit, and 401 Water Quality Certification* (DEP-IWRD-APP-101)

Part V: Supporting Documents (continued)

- Attachment D: *Documentation Form for Water Diversion Permit* (DEP-IWRD-APP-102)
- Attachment E: *Documentation Form for a Dam Construction Permit* (DEP-IWRD-APP-103)
- Attachment F: *Documentation Form for Flood Management Certification* (DEP-IWRD-APP-104) (State Agencies Only)
- Attachment G: Plan Sheets and Drawings
- Attachment H: Engineering Documentation
 - Part 1: *Engineering Report Checklist* (DEP-IWRD-APP-105A) and an Engineering Report
 - Part 2: *Hydrologic and Hydraulic Consistency Worksheet* (DEP-IWRD-APP-105B)
 - Section I: Floodplain Management
 - Section II: Stormwater Management
 - For state agencies only:*
 - Section III: State Grants and Loans
 - Section IV: Disposal of State Land
- Attachment I: Flood Contingency Plan
- Attachment J: Soil Scientist Report (not required for Flood Management Certification)
- Attachment K: Environmental Report (not required for Flood Management Certification)
- Attachment L: Mitigation Report - wetlands and watercourses, fish and wildlife (not required for Flood Management Certification)
- Attachment M: Alternatives Assessment (not required for Flood Management Certification)
- Attachment N: *Applicant Compliance Information Form* (DEP-APP-002) (not required for Flood Management Certification or 401 Water Quality Certification Approvals)
- Attachment O: *Applicant Background Information Form* (DEP-APP-008) (not required for Flood Management Certification)
- Attachment P: *Coastal Consistency Review Form* (DEP-APP-004) (if applicable)
- Attachment Q: Other Information: any other information the applicant deems relevant or is required by DEP.

Number of Copies of Application:

Submit one original of all application forms, certifications, reports and supporting documents and the number of photocopies of all such materials as noted on the *Permit Application Transmittal Form*. When applying for more than one permit, you should submit the original and no more than six copies.

Part VI: Application Certification

The applicant *and* all individuals responsible for actually preparing the application or supporting documentation must sign this part. An application will be considered insufficient unless **all** required signatures are provided. You must include signatures of any person preparing any report or parts thereof filed in support of this application (i.e., professional engineers, surveyors, soil scientists, biologists, environmental and other consultants, etc.).

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of the individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief.

I understand that a false statement in the submitted information may be punishable as a criminal offense, in accordance with Section 22a-6 of the General Statutes, pursuant to Section 53a-157b of the General Statutes, and in accordance with any other applicable statute.

I certify that this application is on complete and accurate forms as prescribed by the commissioner without alteration of the text.

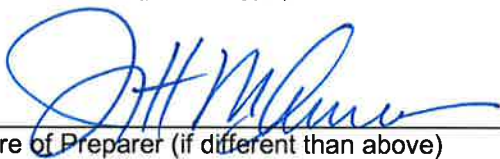
I certify that I will comply with all notice requirements as listed in Section 22a-6g of the General Statutes."


Signature of Applicant

3/5/19
Date

Douglas Wilson, PE
Name of Applicant (print or type)

Interim Town Engineer
Title (if applicable)


Signature of Preparer (if different than above)

3/5/2019
Date

John McGrane, PE, CFM
Name of Preparer (print or type)

Sr. Consultant, GEI Consultants, Inc.
Title (if applicable)

Check here if additional signatures are required.
If so, please reproduce this sheet and attach signed copies to this sheet.

Reminder: After submitting this application to DEP, except in the case of a Flood Management Certification, you must publish a notice of the application immediately and submit a certified copy of this published notice to DEP. See "Notice of Permit Application" section in the instructions (DEP-IWRD-INST-100).

List the name of the newspaper the Notice of Permit Application will be published in: **Hartford Courant**

Note: Please submit the *Permit Application Transmittal Form*, Application Form, Fee, and all Supporting Documents to:

CENTRAL PERMIT PROCESSING UNIT
DEPARTMENT OF ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127

**Attachment A:
Executive Summary**

Attachment A Executive Summary

Consulting
Engineers and
Scientists

Town of East Hartford Flood Control System Toe Drain Replacement Phase 1 IWRD Application Dam Construction Permit Request March 2019

The Town of East Hartford is undertaking this project as part of its long-term program to upgrade and maintain the integrity of its flood control system that was initiated through the FEMA Levee Accreditation process. The Town has continued with this program to meet ongoing levee safety compliance standards of the U.S Army Corps of Engineers.

This project involves replacement of and improvement to an existing levee toe drain system within the Town of East Hartford flood control system between the Bulkeley Bridge (I-84) on the north and extending southerly to the intersection of East River Drive and Hartland Street. The new toe drain will replace approximately 2,500 feet of existing toe drain system essentially within the footprint of existing toe drain system.

The existing Toe Drain for East Hartford Levee system has failed due to deterioration of the internal pipe system and intrusion of fine sediments into the toe drain system. The new Toe Drain system will involve installation of new PVC slotted piping and concrete manholes. The Toe Drains will be in the range of 6 to 10 feet in depth and will be excavated using standard excavating equipment to remove the old piping and backfill. New piping and backfill will be installed predominantly within the existing toe drain trench. Surfaces will be restored in-kind with existing materials, which entirely consist of asphalt pavement, gravel, and mowed grass surfaces.

The project is on the landward fringe of an NDDB as shown on the December 2018 NDDB mapping. The Town submitted a request to Ct DEEP for an NDDB determination and received **NDDB Notice of Determination 201901835** which is attached. The Determination indicated no anticipated negative impacts to State listed species as a result of the project.

The full extent of the project is within an urbanized area west of East River drive. Land uses consist of include office and high-rise residential. Existing surface consist of asphalt pavement, gravel surface under the Riverpoint Condominiums parking deck, and mowed grassed surface on the levee toe and roadside adjacent to East River Drive.

The work is limited to replacement of an existing Toe Drain system which is on the land side of the East Hartford Earthen Levee and Concrete Floodwall system. All work is

Town of East Hartford Flood Control System
Toe Drain Replacement Phase 1
IWRD Application
Dam Construction Permit Request

landward of the levee centerline. The entire footprint of the proposed Toe Drain replacement is urbanized parking areas, driveways, and roadside areas adjacent to the levee. The on-site and off-site surface conditions will remain the same as a result of this project and thus there are no impacts to report.

Based on CT ECO mapping (see attached) and visual observation, there are no identified wetlands or surface water bodies or watercourses within the project limits or in the vicinity of the project area. The Toe Drain system is designed to collect subsurface water which will discharge into an existing storm drain system. There are no provisions in the project to collect surface drainage.

The project area is shown as "Shaded Zone X " meaning that it is protected by an accredited levee. The Town of East Hartford obtained Levee Accreditation in 2010 and it remains a currently accredited levee system.

This project was part of a comprehensive levee repair project within the East Hartford Flood Protection system, which was previously authorized under a CT DEP Dam Safety Permit in 2010. Although other components of the comprehensive project were constructed under this Dam Safety Permit, the Toe Drain Replacement portion did not commence within the permit specified time frame, and thus is the subject of this application as a stand-alone project. Also, the project did receive several local and federal authorizations for this project. These permits include the following:

- CT DEEP Dam Safety Permit 200900926 (see copy Attachment Q - Other Information)
- U.S. Army Corps of Engineers (USACE), Title 33 CFR 208.10 Authorization, as per permit # NAE-2008-1144 dated July 23, 2008; and including approved extension letters dated most recently, December 23, 2013.
- Town of East Hartford Zoning Board of Appeals Variance dated June 4, 2009– A variance from Section 601.10 to permit filling minor amounts of fill within the floodplain without adding compensatory storage capacity.

Work is scheduled to commence by July 1, 2019 and completed by December 31, 2019.

Appendices to Executive Summary:

Appendix 1: Photos of the project area

Appendix 2: CT ECO map for Poorly or Very Poorly Drained (i.e. Wetlands) Soils

Appendix 3: NDDDB Notice of Determination 201901835

Appendix 1:

APPENDIX 1

Supplemental Project Information



Photo looking North from southern limit of project. Toe drain replacement proposed for levee toe area to the left of paved street (East River Drive)



Photo looking North. Toe drain replacement proposed for levee toe area to the left of paved street (East River Drive)



Photo looking North. Toe drain replacement proposed for floodwall toe to right of buttressed concrete floodwall.



Photo looking North. Toe drain replacement proposed for floodwall toe to right of buttressed concrete floodwall (under Riverpoint Condominium deck).



Photo looking North (north of Founder Bridge) to northern terminus of project. Toe drain replacement proposed for levee toe area to left of paved parking area.



Appendix 2:



SOURCE:
1. SSURGO USDA NRCS SOILS
ACCESSED VIA CT DEEP GIS



LEGEND:

-  Poorly Drained and Very Poorly Drained Soils
-  Alluvial and Floodplain Soils

Town of East Hartford
Levee Toe Drain System Phase 1 Repairs
East Hartford, Connecticut



WETLAND SOILS

Town of East Hartford
East Hartford, Connecticut

Project 124390

February 2019

Attachment A

Appendix 3:

February 8, 2019

John McGrane, PE, CFM
GEI Consultants Inc, as agent for Town of East Hartford
455 Winding Brook Drive
Glastonbury, CT 06033
jmcgrane@geiconsultants.com

Project: Levee toe drain system Phase 1 repairs, East River Drive and Pitkin St, East Hartford, CT
NDDDB Determination No.: 201901835

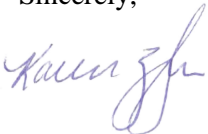
Dear Mr. McGrane,

I have reviewed Natural Diversity Database (NDDDB) maps and files regarding the area of work provided for the proposed levee toe drain system Phase 1 repairs in East Hartford, Connecticut. I do not anticipate negative impacts to State-listed species (RCSA Sec. 26-306) resulting from your proposed activity at the site based upon the information contained within the NDDDB. The result of this review does not preclude the possibility that listed species may be encountered on site and that additional action may be necessary to remain in compliance with certain state permits. This determination is good for two years. Please re-submit a new NDDDB Request for Review if the scope of work changes or if work has not begun on this project by February 8, 2021.

Natural Diversity Data Base information includes all information regarding critical biological resources available to us at the time of the request. This information is a compilation of data collected over the years by the Department of Energy and Environmental Protection's Natural History Survey, cooperating units of DEEP, landowners, private conservation groups and the scientific community. This information is not necessarily the result of comprehensive or site-specific field investigations. Consultations with the NDDDB should not be substitutes for on-site surveys necessary for a thorough environmental impact assessment. Current research projects and new contributors continue to identify additional populations of species and locations of habitats of concern, as well as, enhance existing data. Such new information is incorporated into the database as it becomes available.

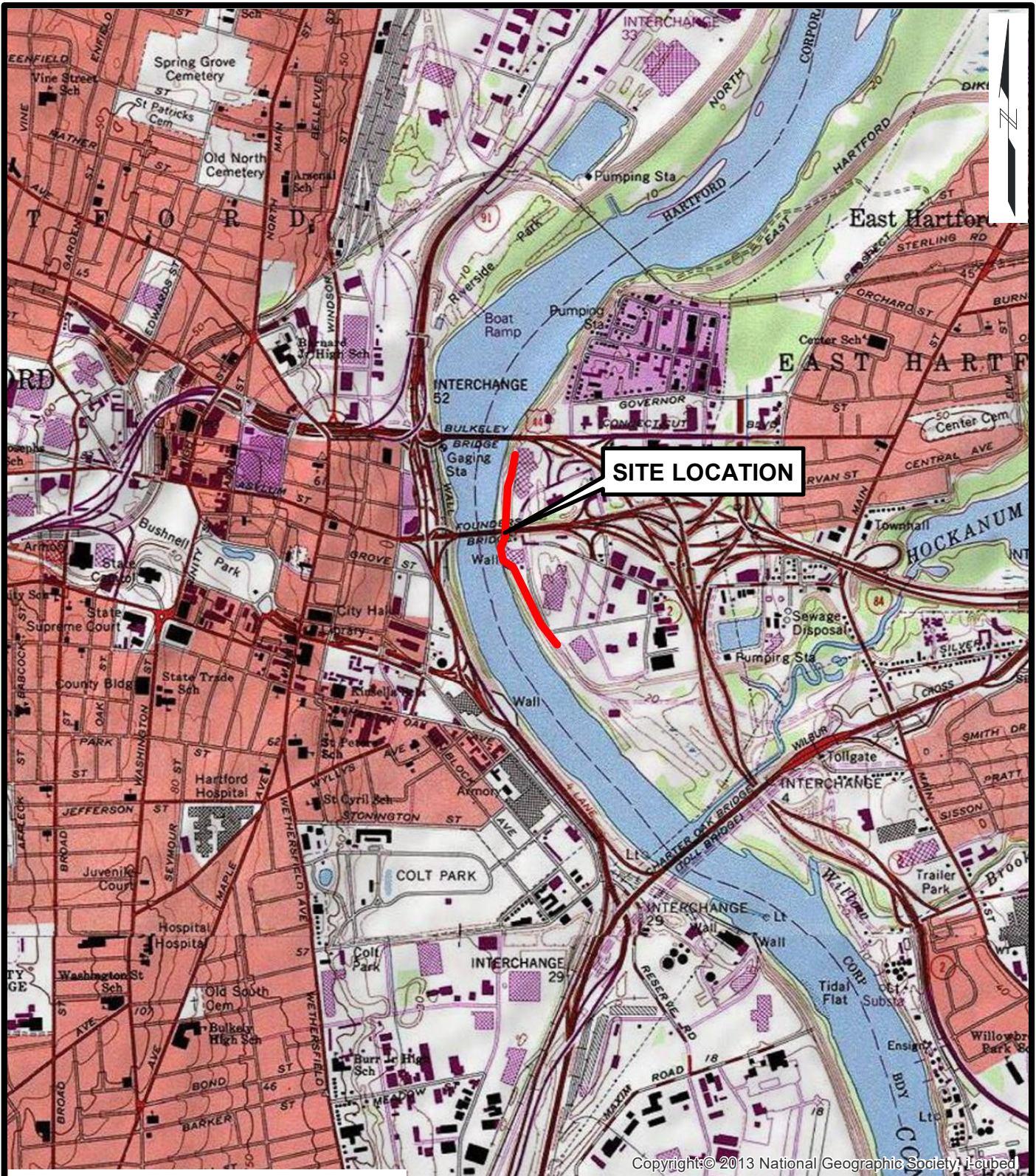
Please contact me if you have further questions at (860) 424-3378, or karen.zyko@ct.gov . Thank you for consulting the Natural Diversity Database.

Sincerely,



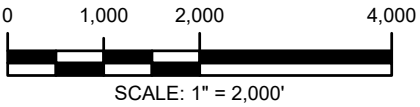
Karen Zyko
Environmental Analyst

**Attachment B:
USGS Quad Map**



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SOURCE:
 1. NATIONAL GEOGRAPHIC TOPO!
 ACCESSED VIA
 ARCGIS ONLINE.COM



<p>Town of East Hartford Levee Toe Drain System Phase 1 Repairs East Hartford, Connecticut</p>		<p>SITE LOCATION/OVERVIEW MAP</p>
<p>Town of East Hartford East Hartford, Connecticut</p>	<p>Project 124390</p>	<p>February 2019 Attachment A</p>