Connecticut
Department of Energy & Environmental Protection
WATER PLANNING & MANAGEMENT

Instructions for Completing an Individual Permit Application for Dam Safety

Use these instructions to complete the permit application form DEEP-WPMD-APP-200, prepare supporting documents and publish the applicant's notice of permit application. These instructions are not a substitute for the requirements of the relevant statutes and any regulations thereunder. You should review all applicable laws prior to completing this application. Remember, it is your responsibility to comply with all applicable laws.

Introduction

The Dam Safety Program of the Department of Energy and Environmental Protection (DEEP) administers the individual permit application for dam repairs, dam removal, and new dam construction projects. For any questions you may have regarding application requirements, call the Dam Safety Program at 860-424-3706 or email at DEEP.DamSafety@ct.gov.

General Application Guidance

Prior to constructing a new dam, dike, or similar structure or repairing, altering or removing an existing dam, dike, or similar structure, a dam safety permit pursuant to Connecticut General Statutes (CGS) section 22a-403 must be obtained, unless DEEP determines that a dam safety permit is not required. A pre-application meeting is highly recommended to determine the appropriate authorizations required for the project. To arrange for a pre-application meeting, please complete and submit a Pre-Application Questionnaire (DEEP-APP-001) according to its instructions. For questions regarding the pre-application process, please contact the Office of Innovative Partnerships and Planning at DEEP.OPPD@ct.gov. Any work (other than routine maintenance), on a dam which, by breaking away or otherwise might endanger life or property, will require a dam safety permit. If DEEP, after reviewing the proposed work, concludes that the dam would pose no threat to life or property should it fail, the dam will be classified as a negligible hazard potential class "AA", then the applicant will be informed that a dam safety permit is not required and that a municipal wetlands permit may be required. Please note, for maintenance and inspection requirements, negligible hazard potential dams fall under the jurisdiction of the municipality where the dam is located. However, removal or new construction proposals for "AA" hazard class dams must be reviewed by DEEP Land and Water Resources Regulatory Section for a permit need determination pursuant to the Water Diversion Policy Act Water Diversion Program (ct.gov), DEEP Fisheries Division, and DEEP Stormwater program.

Please be aware that your proposed activities may require additional permits from regulatory agencies other than DEEP, e.g. U.S. Army Corps of Engineers (1-800-343-4789). Such agencies should be contacted directly.

Any person proposing to transfer a DEEP permit must submit a completed *License Transfer Form* (DEEP-APP-006) and transfer fee to DEEP. The *License Transfer Form* may be used for changes in permittees. For further information concerning permit transfers or to obtain a *License Transfer Form*,

please contact the Office of Innovative Partnerships and Planning at DEEP.OPPD@ct.gov .

How to Apply

Your permit application must include all the following items:

- Individual Permit Application for Dam Safety (DEEP-WPMD-APP-200) and Applicable Attachments
- Additional Supporting Documents

Please submit all the forms and attachments electronically following the instructions below.

1. Submit the application form (Word, pdf) **(without attachments) via email to DEEP.CentralPermits@ct.gov, and copy DEEP.DamSafety@ct.gov. You will receive a Permit Application # when it is processed by the Central Permits Processing Unit.**

   If you are sending an application form via email, please do not send us a duplicate paper copy. In your email, you may ask us to verify that we received your application form successfully. The email subject heading should say "Electronic Permit Application Form: Dam Safety Program". You will receive a Permit Application # from DEEP.CentralPermits@ct.gov. The application number will be sent to the Applicant and the Primary contact listed in the application.

2. **Send another email to DEEP.DamSafety@ct.gov to submit the application form and all attachments and reference the Permit Application # in the email subject heading.**

Only if electronic submittal is not possible, hardcopy files can be submitted to:

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

Permit Application Instructions

Please read the application form and instructions carefully. If you believe that the information requested does not apply to your specific project, explain, in the space provided, why you believe that is the case. Do not respond with "NA" ("not available" or "not applicable"); an "NA" response will deem your application insufficient and may cause your application to be rejected. If a question or supporting document is only required for specific activities, it will be noted on the application form and in the instructions.

Please be advised that these instructions are not a substitute for any state or federal statutes or regulations. Be sure to refer to the applicable statutes and regulations while completing your application.

Refer to the Available Resources Section at the end of these instructions to obtain all required documents and guidance related to the subject permit application.

Part I: Application Type and Description

Please indicate the municipality where the site is located and whether you are applying for a permit to construct a new dam or repair/ modify/ remove an existing dam. Indicate the DEEP Dam ID No. for existing dams.

If Dam ID number is unknown,

a. check the Dam Safety website https://portal.ct.gov/DEEP/Water/Dams/Dam-Registration-and-

Dam-Recordation.

b. check the DEEP Dam Safety GIS Database for the inventory of the dams in the state of Connecticut.
c. contact the DEEP Dam Safety Program at DEEP.DamSafety@ct.gov.

Provide a brief description of the project.

Part II: Public Notice Information

CGS section 22a-6g imposes public notification requirements on applicants for certain permits issued by DEEP.

In order to comply with these requirements, you must:

1. Publish notice of the permit application in a newspaper of general circulation in the area potentially affected by the activity that is the subject of your permit application. This notice ***must follow the format*** specified on the following page and must be published ***before*** you submit your application to the DEEP. The format contains instructions in brackets. You must insert the appropriate information to replace the instructions in brackets. Be sure to *delete* all instructions and information that do not apply to the activity you intend to conduct.

2. Using the same format as the application notice for publication in the newspaper, ensure that notice of the permit application has been posted on the official website of the municipalities that may be affected by the activity that is the subject of your permit application.

3. Send a copy of the published notice to the chief elected official of the municipality in which the regulated activity is proposed. The chief elected official is generally a mayor, 1st selectman, town manager or a chairman or president of the town council, depending on the form of government of the municipality. The municipality's website is the best source for contact information. Specific information for each municipality is listed in The State Register and Manual (often referred to as the Blue Book), which is available on the Secretary of the State's website (https://portal.ct.gov/SOTS), and is also usually available at town clerk's offices, the State Library and public libraries. The Secretary of the State's website also has a list of mayors and first selectmen available (Find Your Town Clerk Registrar of Voters and Elected Officials). Request that the notice be published on the internet web site used for local land use decisions in that municipality. If the municipality has no such website, the Department will require proof that the attempt to have notice published in this way occurred.

4. Include a copy of the published notice of permit application and a completed Certification of Notice Form - Notice of Application (DEEP-APP-005A) as Attachment A to the permit application.

   The copy of the published notice of permit application must be a photocopy of the page of the newspaper where the notice was published that displays the notice, the name of the newspaper and the date of publication.

   The Certification of Notice Form - Notice of Application asks you to:

   a. specify the date and newspaper in which the notice was published;
   b. certify that a copy of the notice was provided to the chief elected municipal official; and
   c. identify the municipal official(s) to whom the notice was provided.

If you have any questions about these notice requirements, contact the Dam Safety Program at DEEP.DamSafety@ct.gov or 860-424-3706.

Your application will not be processed until DEEP receives the copy of the notice as described above and a completed Certification of Notice Form - Notice of Application.

In addition, DEEP may notify you that other forms of notice are required, including the posting of a sign in accordance with CGS section 22a-6*l*.

The applicant is responsible for publishing legal notice in accordance with the requirements of CGS section 22a-6g and all applicable laws.

When the application review is complete and DEEP has made a final decision on your permit application, DEEP will publish a Notice of Tentative Determination in the newspaper. Please note that you will receive an invoice for the public notice fee, and you will be responsible for payment prior to receiving the permit.

The following format must be used when publishing notice of an application:

Notice of Permit Application

Municipality(s): [**LIST ALL MUNICIPALITIES IN WHICH THE REGULATED ACTIVITY IS LOCATED OR WILL HAVE AN AFFECT**]

Notice is hereby given that [**INSERT NAME OF APPLICANT**] (the "applicant") of [**INSERT ADDRESS OF APPLICANT HERE**] will submit to the Department of Energy and Environmental Protection an application under Connecticut General Statutes Section(s) [**SELECT ONLY THE STATUTE NUMBER(S) CORRESPONDING TO THE PERMIT(S) REQUESTED**: section 22a-403 (DAM SAFETY); AND section 401 of the Federal Clean Water Act, 33 U.S.C. sec. 1341 (WATER QUALITY CERTIFICATION); **NOTE: IF THE APPLICATION IS LIMITED TO JUST A REQUEST FOR WATER QUALITY CERTIFICATION, DELETE THE WORDS "CONNECTICUT GENERAL STATUTES" FROM THE ABOVE TEXT**] for a permit to [**SELECT ONLY THE TEXT THAT DESCRIBES THE PERMIT(S) REQUESTED IN THE APPLICATION** section 22a-403: [**SELECT APPROPRIATE TEXT**: construct a new dam, repair a dam, alter a dam, remove a dam, or construct, repair or remove a dike]; SEC. 401: discharge into the waters of the state].

Specifically, the applicant proposes to [**INSERT A BRIEF DESCRIPTION OF THE PROPOSED ACTIVITY AND ITS PURPOSE**]. The proposed activity will take place [**INSERT THE STREET ADDRESS; IF THE ADDRESS DOES NOT HAVE A STREET NUMBER, GIVE THE SPECIFIC LOCATION OF THE PROPOSED ACTIVITY WITH REFERENCE TO A FIXED LANDMARK E.G., A ROADWAY INTERSECTION, BRIDGE OR OTHER STRUCTURE**]. The proposed activity will potentially affect: [**INSERT ANY NATURAL RESOURCES POTENTIALLY AFFECTED BY SUCH ACTIVITY (E.G., WETLANDS, WATERCOURSES BY NAME, GROUND WATERS, AIR, FOREST LAND, TIDAL WETLANDS)**]. The proposed activity is located in **a FEMA-designated Riverine or Coastal Floodplain / Special Flood Hazard Area (SFHA**) [**Flood Zone " " and Panel#].**

Interested persons may obtain copies of the application from [**INSERT THE NAME, MAILING ADDRESS AND TELEPHONE NUMBER OF THE APPLICANT'S REPRESENTATIVE**].

The application will be available for inspection by appointment at the Department of Energy and Environmental Protection, Water Planning and Management Division, 79 Elm Street, Hartford, CT 06106-5127, at 9:00am and 1:00pm on Tuesday through Thursday. In order to request an in-person appointment or obtain a copy of the application, please send your requests to Dam Safety at DEEP.DamSafety@ct.gov or call 860-424-3706.

Part III: Applicant Information

Complete all applicable information requested in the application form for this part.

If there is a change in name of the entity holding a DEEP license or a change in ownership, contact the Office of Innovative Partnerships and Planning at DEEP.OPPD@ct.gov . For any other changes you must contact the specific program from which you hold a current DEEP permit.

Part IV: Site Information

DEEP strongly encourages all applicants to conduct a review of the following Coastal, Natural Diversity Data Base and Aquifer Protection information as soon as possible and to resolve any outstanding issues, where feasible, before submitting their permit application to Dam Safety to ensure a more timely and efficient review of their permit application.

1. Site Name and Location

a. Name of site - The site or project name or number identified should be the name by which the site or project is commonly known and/or may be uniquely identified. If the site or project has not been given a name, describe the proposed activity (e.g., proposed dam, dike etc.). The information given as the location address should be the address of the property at which the proposed activity will take place. Include the street address and the municipality. If the property does not have a street number, describe the location in terms of the distance and direction from an obvious landmark such as an intersection with another roadway, a bridge, or a river. For example, " . . . on the east side of River Street, approximately 1000 feet north of its intersection with Bear Swamp Road."

b. Parcel Location/ Tax Assessor's Reference - Provide the Tax Assessor's Map, Block and Lot Number of the site. These numbers may be found on the most recent tax bill for the property or obtained from the tax assessor's Town website office in the municipality in which the property is located. Indicate if the project site lies on more than one parcel.

c. Easement(s) – If the project is located on a utility/transportation right-of-way or easement and/or requires access through easements, please indicate and explain if access has been approved. If applicable, include a map as Attachment C outlining the limits and dimensions of the easement(s).

d. Provide the latitude and longitude, in degrees, minutes and seconds, of the approximate center of the facility or site of the proposed work. In addition, please indicate the method used to determine the latitude and longitude coordinates.

e. Indicate the drainage basin number(s) for the basin(s) wherein the proposed activity will take place.

2. Coastal Boundary

Activities within the state's coastal area must be consistent with the Connecticut Coastal Management Act (CGS sections 22a-90 through 22a-112). If the activities fall within the state's coastal area and the application is for a new permit or a modification of an existing permit where the physical footprint of the subject activity is modified, you must further evaluate your activity as detailed below.

You may be required to complete a Coastal Consistency Review Form for Dam Safety Activities to demonstrate that the activity is consistent with the standards and policies of the Connecticut Coastal Management Act. To determine whether this requirement pertains to you, you must first decide if your activity is, or is proposed to be, located in either the coastal area or the coastal boundary.

The coastal area, as defined in CGS section 22a-94(a), includes the land and water within the following municipalities:

Branford	Guilford	Old Saybrook
Bridgeport	Hamden	Orange
Chester	Ledyard	Preston
Clinton	Lyme	Shelton
Darien	Madison	Stamford

Deep River	Milford	Stonington (Borough
East Haven	Montville	and Town of)
East Lyme	New London	Stratford
Essex	New Haven	Waterford
Fairfield	North Haven	West Haven
Greenwich	Norwalk	Westbrook
Groton (City and	Norwich	Westport
Town of)	Old Lyme	

The coastal boundary, as defined in CGS section 22a-94(b), is a designated region within the coastal area. It is delineated on DEEP-approved coastal boundary maps which are available for review at the DEEP Land and Water Resources Division (LWRD), the DEEP File Room, and municipal offices of towns/ cities located in the coastal area. The map can also be viewed at: https://cteco.uconn.edu/map_catalog.asp

Activities within the coastal boundary:

If your activity is, or is proposed to be, located in the coastal boundary, and you are applying for a new permit or a modification of an existing permit where the physical footprint of the subject activity changes, you must complete a *Coastal Consistency Review Form for Dam Safety Activities* and submit it with your application as Attachment J.

Activities outside the coastal boundary but within the coastal area:

For activities located outside of the coastal boundary, but within a municipality in the coastal area, you are not required to submit a Coastal Consistency Review Form for Dam Safety Activities with your application materials.

3. **Natural Diversity Data Base (NDDB) – Endangered and Threatened Species**

CGS section 26-310(a) states that each state agency, in consultation with the DEEP commissioner, shall conserve endangered and threatened species and their essential habitats, and shall ensure that any activity authorized, funded or performed by such agency does not threaten the continued existence of any endangered or threatened species or result in the destruction or adverse modification of habitat designated as essential to such species.

Please refer to "Requests for Natural Diversity Data Base State Listed Species Reviews" located on the DEEP website at: https://portal.ct.gov/deep/nddb/requests-for-nddb-environmental-reviews to determine if your activity, including any areas beyond the immediate footprint of the project and beyond the property line that will be either directly or indirectly affected, is located within an area identified as, or otherwise known to be, a habitat for endangered, threatened or special concern species. Include areas such as equipment and materials staging areas, areas receiving discharge and dredge material disposal areas. If applicable, prior to submitting the subject application, you must submit a Natural Diversity Data Base Review Request using the DEEP's ezFile portal (filings.deep.ct.gov/DEEPPortal/). To get started, create a user account and start a new NDDB filing. Additional information about this new filing process can be found on the NDDB website. ***All requests for review must go through the new NDDB portal*. Email deep.nddbrequest@ct.gov if you need help.**

Please note that NDDB review generally takes 4 to 6 weeks and may require the applicant to produce additional documentation, such as ecological surveys, which must be completed prior to submitting the subject permit application. A copy of the NDDB Determination response letter that has not expired ***must*** be submitted with the completed subject application as Attachment [ ]. Include a copy of any mitigation measures developed for this activity and approved by NDDB. Do *not* submit any NDDB Preliminary Site Assessments with your application. Be aware that you must renew your NDDB Determination if it expires before project work commences.

You must then submit a CT NDDB response and copies of any other correspondence to and from the NDDB with your application as Attachment K.

4. **Aquifer Protection Areas**
   Aquifer Protection Areas are defined in CGS section 22a-354a through 22a-354bb and are the areas that contribute water to public water supply wells. Many towns within the state are required to establish Aquifer Protection Areas. Level A areas are final, regulated areas under the aquifer protection program. Level B areas are preliminary approximations of aquifer protection areas that have not yet been mapped to final standards, so the shape of the area may change when final mapping is completed. Level B maps provide an approximation of the Aquifer Protection Areas.

   Review the Aquifer Protection Area maps to determine if your site is located in a Level A or Level B mapped aquifer protection area and check the appropriate box.

   If your site is within a Level A aquifer protection area and your business is registered with either the local aquifer protection agency or DEEP, then no action is required.

   If your site is within a Level A aquifer protection area and your business is not already registered, check the Table of Regulated Land Uses to determine if your activity is required to be registered under the Aquifer Protection Area Program. If you determine your activity is required to be registered, then contact the local aquifer protection agent or DEEP to take appropriate actions.

   If your site is within a Level B aquifer protection area, then no action is required at this time. However, you may be required to register under the Aquifer Protection Area Program in the future when the area is delineated as Level A.

   For more information on the Aquifer Protection Area Program visit the DEEP website at DEEP-Aquifer Protection or contact the program at DEEP.AquiferProtection@ct.gov.

5. **Conservation or Preservation Restriction**
   If the subject site has a conservation or preservation restriction, 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 T. The municipality where the site is located may have information concerning such restrictions.

6. **Flood Management**
   This section applies to any grant or loan administered by the state, including administration or disbursement of federal grants or loans by a state agency to another state agency or to a municipal or regional agency, for proposals affecting the use or development of floodplains or coastal high hazard areas or affecting stormwater drainage patterns and stormwater runoff. Please provide the information requested in the permit application form in your submittal.

7. **Streamflow Requirements**
   Follow the instructions in the Dam Safety Permit Application form to complete this section.

8. **Sediment or Dam Embankment Material Removal or Relocation**
   Follow the instructions in the Dam Safety Permit Application form to complete this section.

9. **Pre-Application Meeting(s)**
   If a pre-application meeting was held for the subject activity, please provide the DEEP staff contact name and the date the pre-application meeting was held. Also check the appropriate box indicating whether multiple permits or a single permit was required for the subject activity.

10. **Tribal Reservation Lands**

Check the appropriate box to specify if the activity which is the subject of the application will be located on federal or state recognized tribal lands.

11. Other Permits

List all municipal, state and federal permits or certificates that have already been issued for construction activity at the property on which the activity is proposed. Include municipal permits for subdivision of land and any zoning approvals.

Part V: Dam Specific Activity Information

1. Name of Watercourse - Indicate the name of the watercourse affected by the dam, the name of the dam, and the name of the impoundment. Please use the "official" names for watercourses as given on the USGS maps. In the case of existing dams registered with the DEEP, use the name and dam inventory number assigned to the dam by DEEP in the registration documents. If the dam or impoundment is known locally by some other name, provide that name as well. For example, if Round Lake is used on the USGS map for a waterbody locally also known as (a.k.a.) Smith's Pond, write the name as follows: Round Lake a.k.a. Smith's Pond.
2. Check appropriate box(es) describing the proposed activity.
3. Identify all anticipated uses, by the applicant or others, of any existing or proposed impoundment.
4. Impoundment Characteristics - For any existing or proposed impoundment identify the following if applicable:
    a. Surface Area: the area of the impoundment, in acres, at its normal water surface elevation.
    b. Drainage Area: the watershed area, in acres or square miles, that contributes to the flow through or over a water control structure or contributes to the flow of a stream at the location of the existing or proposed dam.
    c. Volume at Spillway Height: the quantity of water, expressed in acre-feet or cubic feet, that any proposed or existing dam impounds at the proposed or existing elevation of the principal spillway.
    d. Volume at Top of Dam: the quantity of water, expressed in acre-feet or cubic feet, the dam impounds at the proposed or existing top of dam elevation.

5. Characteristics of Dam - For any existing or proposed dam identify the following:
    a. Maximum Height: the greatest vertical distance from the toe of any proposed or existing dam to the expected or actual elevation of the top of dam (not to spillway crest).
    b. Total Length: the distance in feet along the center line of any proposed or existing dam, measured from the right abutment contact to the left abutment contact.
    c. Description of Dam: select type of dam from the following:
        i. Earth fill Dam
        ii. Zone Embankment Dam
        iii. Masonry Dam
        iv. Rubble Dam
        v. Concrete Dam
        vi. Masonry wall Earth Dam
        vii. Concrete wall earth dam
        viii. Masonry and concrete dam
        ix. Timber crib dam
        x. Other

6. Characteristics of Spillway - For any existing or proposed spillway identify the following:
    a. Type: select the type of spillway from the following:
        i. Broad crested weir

ii. Sharp crested weir
iii. Ogee spillway
iv. Intake Structure
v. Drop inlet
vi. Vertical pipe
vii. Horizontal pipe
viii. Weir-board structure
ix. Armored overflow area
x. No spillway
xi. Other*

b. Description of Material: Give a brief description of the type of material existing and proposed spillway.
c. Spillway Width: the measurement of the total weir; specify pipe diameter if applicable.
d. Height above Stream Bed: the vertical distance from the toe of the spillway to the spillway crest.
e. Amount of Freeboard: the distance in feet from the spillway crest to the lowest point on the crest of the dam.
f. Water Surface Elevation: the elevation (in feet Geodetic North American Vertical Datum (NAVD88)) at which the impoundment is currently maintained and the proposed water surface elevation at which the impoundment will be maintained after any proposed modifications.
g. Historic Water Surface Elevation: the normal elevation (in feet NAVD88) at which any existing impoundment had been maintained in the past.
h. Historic Water Surface Elevation maintained until which year: specify the year such elevation (from paragraph g.) was last maintained.

7. Hydraulic Factors

a. Spillway Design Storm: The "spillway design storm" is used to determine the appropriate spillway size and capacity based on the dam's size, classification, and its hazard potential. The size classification of dams' ranges from small to large based on their height and storage capacity. The hazard potential is the extent to which loss of life and economic damage can be expected in the event of a dam's failure. The minimum spillway design storm which DEEP accepts is the 100-year return frequency storm with one foot of freeboard. Design storms may range from the 100-year return frequency storm to the Probable Maximum Flood event. In selecting a spillway design storm, you should consider, among other things, the downstream hazard, and the volume of water which would be discharged following such storm.

Table 1: Minimum suggested Design Criteria for Spillway Capacity

Hazard	Size	Existing Dams	New Dams
A- Low	Small	100 Year	100 Year
A- Low	Intermediate	100 Year	100 Year
A- Low	Large	100 Year	100-500 Year
BB- Moderate	Small	100 Year	100-500 Year
BB- Moderate	Intermediate	100-500 Year	500 Year
BB- Moderate	Large	500 Year	500 Year – ½ PMF
B- Significant	Small	100-500 Year	500 Year – ½ PMF
B- Significant	Intermediate	500 Year – ½ PMF	½ PMF - PMF
B- Significant	Large	1000 Year – ½ PMF	PMF
C- High	Small	1000 Year – ½ PMF	1000 Year – ½ PMF - PMF
C- High	Intermediate	PMF	PMF
C- High	Large	PMF	PMF

Table 2: Minimum suggested Criteria to define the Dam size

Dam Size	Dam Size Defined either by height or storage, whichever gives the larger size category
Small	Structures that are less than 40 feet high and that impound less than 1,000 acre-feet of water.
Intermediate	Structures that are 40 to 100 feet high and that impound 1,000 to 50,000 acre-feet of water.
Large	Structures that are more than 100 feet high or that impound more than 50,000 acre-feet of water.

b. Design Storm Duration: the actual length in hours of the design storm. Typically, the duration of a design storm ranges from one hour to seventy-two hours. For drainage areas of less than one square mile, only the 1, 6, and 24-hour duration storms need to be analyzed.
c. Capacity at Design storm Elevation: the maximum amount of flow, expressed in cubic feet per second, which the spillway is capable of conveying with the water surface elevation at the design storm elevation.
d. Capacity at top of dam: the maximum amount of flow, expressed in cubic feet per second, which the spillway is capable of conveying with the water surface elevation at the top of the dam.
e. Peak Inflow: the maximum flow resulting from the design storm, expressed in cubic feet per second, that is conveyed into the impoundment.
f. Peak Outflow: the maximum flow, expressed in cubic feet per second, that is conveyed through the water control structure(s) during the design storm.
g. Impoundment Elevation at Peak Outflow: the maximum water surface elevation in feet NAVD88 reached in the impoundment during conveyance of the design storm.

8. Use of Fill Material - If fill material will be placed in a wetland or watercourse, quantify the amount of such fill in cubic yards and the area of such fill in acres or square feet. If fill is to be placed, it must be shown on plans and submitted as Attachment Q.
9. Rate of Flow - Identify the minimum instantaneous flow in cubic feet per second that will be maintained downstream of the dam when the impoundment is being filled or refilled.
10. Potable Water Supply Wells - If the production capacity of wells on properties surrounding the impoundment will be adversely affected by drawing down the impoundment, a plan to provide potable water will be required as Attachment O.

Part VI: Supporting Documents

All permit applications must include Attachments A through T, unless otherwise noted in these instructions. Please label all attachments as referenced in the permit application form and in these instructions, being sure to include the name of the applicant as indicated on the application form.

Consult DEEP staff - Regulated activities vary widely in their effect on the environment. The type and nature of the technical documentation required for a complete application will vary depending on the nature of the environmental effects and the relative significance of the impacts of the proposed activity. For this reason, DEEP strongly recommends that applicants consult with DEEP staff prior to conducting environmental and engineering studies. Depending on the nature of proposed activities, DEEP may require information that is not specifically described in these instructions or may require clarification or additional explanation of information that is submitted. Applicants will require the assistance of a professional engineer, soil scientist, hydrogeologist, or biologist to adequately prepare supporting documentation.

Professional Certification and Seals as required per CGS section 20-306a - All surveys, plans and reports prepared for the purpose of documenting property or ownership boundaries of land must be prepared by a Connecticut-registered land surveyor and must bear his or her certification and seal. For projects where public welfare or the safeguarding of life, health or property is involved or where design criteria need to be incorporated, surveys, plans and reports must be prepared by an engineer, land surveyor or architect registered in Connecticut and bear his or her certification and seal.

Part VII: Applicant Certification

After the application has been completed it must be reviewed and signed by both the applicant and the individual(s) who prepared the application and any part thereof required by the application. This includes consultants, professional engineers, surveyors, soil scientists, etc. By their signature, they certify that to the best of their knowledge and belief, the information contained in the application, including all attachments, is true, accurate and complete.

The certification of the application package must be signed as follows:

1. For an individual(s) or sole proprietorship: by the individual(s) or proprietor, respectively;
2. For a corporation: by a principal executive officer of at least the level of Vice President;
3. For a limited liability company (LLC): a manager, if management of the LLC is vested in a manager(s) in accordance with the company's "Articles of Organization", or a member of the LLC if no authority is vested in a manager(s);
4. For a partnership: by a general partner;
5. For a municipal, state, or federal agency or department: by either a principal executive officer, a ranking elected official, or by other representatives of such applicant authorized by law.

An application will be considered insufficient unless all required signatures are provided.

Part VIII: Application Submission

Please follow the instructions on Page 14 in the Individual Permit Application for Dam Safety.

Instructions for Attachments

Attachment A: Notice of Permit Application

Refer to the Public Notice Requirements for Permit Applications (DEEP-INST-005A). The public notice of application must be published prior to submitting an application, as required in CGS section 22a-6g. A copy of the published notice of application and the completed Certification of Notice Form - Notice of Application (DEEP-APP-005A) must be included as Attachment A to this application as required in CGS section 22a-6l. Your application will not be processed if Attachment A is not included.

Attachment B: Executive Summary

Submit Attachment B, an executive summary which includes:

1. a brief description of the proposed activity;
2. a synopsis of the documentation included in the application including the environmental and engineering analyses conducted and the results of such analyses;
3. a brief summary of the drawdown plan, if applicable;
4. the anticipated time frame for initiation and completion of the proposed activities; and
5. any other information the applicant deems relevant to an understanding of the proposed activity.

Attachment C: Location Map

Submit as Attachment C, an 8 1/2" x 11" Location Map at an appropriate scale to clearly identify the location of the regulated activity with the project site outlined or pinpointed. DEEP will use this map to enter your project location into its Geographic Information System (GIS). It is important that you accurately locate the project site and proposed activities, because GIS generates natural resource information relevant to your site. Inaccurate description of the project location will delay processing of your application.

The location of the project site and regulated activities should be indicated on the map as follows: outline the parcel(s) of land upon which the proposed project will be located and pinpoint or circle the precise areas where activities are proposed. Where there are multiple areas of proposed activities, each area should be pinpointed or circled and numbered for reference purposes. If the size of the parcel is so small that outlining its boundaries and pinpointing regulated activities on the map is impractical, simply pinpoint the approximate center of the parcel. See Figure A, at the end of these instructions for example of how a location map must be labeled when submitted.

Attachment D: Plan Sheets and Drawings

Submit as Attachment D, plans and drawings showing existing and proposed conditions at the subject property and any other regulated areas. The plans should represent final design that is ready for construction. All such plans and drawings should be clearly labeled and be sufficiently detailed to fully describe what is being proposed, where, and by whom. Clear, well-drawn plans are an important tool to help DEEP staff understand the potential effects of the proposed activity and to assess the adequacy of its design. All plan views and cross sections should be drawn to an appropriate scale. There should be at least one plan view which shows the locations of all work items in relation to the dam.

The following is a checklist of requirements that need to be completed and submitted as part of the project plans.

- ☐ Title Sheet. Include location map (e.g., USGS topographic map), list of drawings, standard general notes, original and revised plan dates, name of the applicant, name of the individual and the firm that prepared the plan, and plan scale. Please note that any final permit will refer to this title page for the approved plan set. Any revisions made during the application review process must be noted on a revised title sheet. If more than one company prepares plans for the application, use additional sheets.
- ☐ Plan Preparation. All proposed plans must bear appropriate professional certifications and seals. Each sheet of the proposed plans must be sealed and signed.
- ☐ Tax Assessor's Map. Show the Map, Block and Lot #, subject property and immediately adjacent properties, and, and the names of the owners of record of such abutting properties.
- ☐ Plan Views, Elevation or cross-section views. Provide existing and proposed plan views and cross-section views (on separate sheets), based on a site survey prepared by a licensed land surveyor ("surveyor"). Include topography and all proposed excavation, filling, and structures (Contour intervals should be no greater than two (2) feet; cross sections may also be useful to clarify grade changes).
- ☐ A-2 Boundary Survey. If the survey is older than five years, provide a certification that no changes have been made to the boundaries since the time of the survey. The survey must include any easements, right-of-ways, and utility crossings in the project area.

☐ Plan Standards. Plans must include a North arrow, the direction of water flow, the topographic datum, scale (numeric and graphic), legend/key and title block**.**

- Activity Specific Details. Detailed plan views and cross-sections must be prepared for each separateproposed activity.
- Resource Boundaries. The location of wetlands, watercourses and other waterbodies potentially affected by the proposed activity and the description of the type of any wetlands and wetland soils at the subject property and reference to the soil scientist's or biologist's report (title, author and date) wherein the delineation of such wetlands is described; Wetlands and watercourses should be delineated in accordance with CGS section 22a-38 (Inland Wetlands and Watercourses Act), except in the case of an application for water quality certification under Section 401 of the Federal Clean Water Act. In such case, wetland delineations should be accomplished using the current federal delineation method;

☐ Permanent and temporary tidal and inland wetland impacts. Impact areas need to be graphically shown with temporary and permanent impacts clearly differentiated. A table should be included to quantify these impacts. Impacts to wetlands and watercourses should be quantified by area. Layout an area that the Contractor will be restricted to, all areas located within wetlands or watercourses will be counted as an impact area. Sufficient room should be provided to perform the work, but disturbance to wetland resources need to be minimized to the extent feasible. Submit the Water Resource Impact Table as Attachment Q.

☐ Extent of Inundation. For those activities which will affect the hydrologic or hydraulic characteristics of a non-tidal watercourse or inland wetland, show the pre- and post-construction aerial extent of inundation for 100-year storm frequency events.

☐ Flow Arrows. Show for both existing and proposed watercourses and drainage systems, including swales within the project limits.

☐ FEMA Floodplain Lines. Show the location of the floodplain and floodway and the elevation contour of the base flood based on information provided by the National Flood Insurance Program (NFIP).

☐ Worksite Access and Staging. A proposed construction sequence, including a narrative detailing related water handling and sedimentation and erosion controls and the operation and maintenance procedures for such controls.

- Show the proposed construction access. Staging plans should include the temporary locations of: vehicles, material, equipment storage, access roads and stockpile areas that the applicant expects to use during construction.
- Depict how access roads will be treated after construction.
- For long access roads, it may provide insight to a regulatory reviewer to show a small-scale view of the entire length of the access road in relation to regulated areas, and only focus detail on the actual impact locations.

☐ Stormwater Control Structures Design. Should be in conformance with the Connecticut Stormwater Quality Manual to the extent possible. For DOT projects, the design shall be in accordance with the DOT Drainage Manual (unless otherwise determined by DOT Hydraulics and Drainage).

☐ Water Handling. Include detailed plans and specifications for proposed water handling, including dewatering methods, anticipated rates of dewatering and refilling, the drawn down elevation of the impoundment and the duration of such draw down. The water-handling plan must demonstrate that construction has been sequenced to minimize changes in water surface elevations in the

impoundment and to minimize the length of time the impoundment is drawn down. It must also provide for a continuous instantaneous release downstream of the dam while the impoundment is being refilled. When construction is not active (e.g., weekends, winter shutdown), the specifications must also require the construction site to be monitored by the contractor at least weekly, and at least daily when at least 0.5 inches of precipitation is forecasted until 24 hours after precipitation has ended.

☐ Dewatering Basins. Show approximate size and location. Basins shall always be located outside of wetlands and placed outside of floodplain/floodway areas to the extent possible.

- Address the handling and disposal plan for wet dredged/excavated sediment.
- "Clean" stormwater runoff within, or passing through, the project limits should be temporarily handled (via, berms, swales, pipes, etc.) as necessary to divert flows around the work area.

☐ Erosion and Sediment Controls. Must be shown on plans and comply with standards in the Connecticut Guidelines for Soil Erosion and Sediment Control Manual. Provide detailed plans and specifications for controlling erosion of accumulated sediments during drawdown and for controlling the erosion of exposed pond bottom sediments while the impoundment is drawn down. Provide details of any proposed measures (best management practices) for minimizing adverse impacts during construction.

☐ Slope Protection and Permanent Stabilization Details. Include plantings, turf, erosion control matting (biodegradable whenever possible), riprap, etc. where they will be used. Show location and call out type.

☐ Tree Removal. Show any trees or areas of trees that will be required to be removed to complete the project. Specify if the stumps and roots are going to be removed and provide a typical detail of the work.

Attachment E: Engineering Documentation

Documentation and calculations provided by a professional engineer licensed to practice in the State of Connecticut for all proposed measures identified in the Guidelines as having "design criteria;" Submit as Attachment E, engineering studies signed and sealed by a professional engineer licensed in the State of Connecticut, and other documentation as appropriate to fully and clearly describe the design of proposed facilities or other actions and the hydrologic and hydraulic effects thereof. The engineering documentation should include a narrative clearly describing the contents of the engineering report, including summary tables as applicable.

Design Criteria: The application should contain, in addition to the hydrologic and hydraulic analyses described above, the design engineer's report, design computations, and construction specifications that address the following if applicable:

1. primary and emergency spillway and outlet structure erosion protection:
   - follow the design and size criteria mentioned in the Table 1 and Table 2 (available in Part V: Dam Specific Activity Information – 7(a) Hydraulic Factors -Spillway Design storm). At a minimum the spillway for existing structures should have enough capacity to pass the 100-year design storm with one (1) foot of freeboard. Minimum rainfall data used must be the amount listed in NOAA Atlas 14;
   - erosion/scour prevention measures with design computations;
   - debris control structure sizing for inlets
2. geotechnical evaluation:

- foundation conditions as established through borings or test pits;
- assessment of foundation seepage potential;
- stability analysis if re-grading the embankment for slopes steeper than 3H:1V

3. construction specifications:
   a. foundation preparation:
      - excavation to the embankment and structures and adequate preparation of suitable foundation materials must be provided; (This is particularly important if borings or test pits have not been performed during the design phase.)
      - the area on which an embankment is to be constructed must consist of material that has sufficient bearing strength to support the embankment without excessive consolidation.

   b. embankment material:
      - soil gradation must be specified as well as the method of placement, including maximum lift dimensions and degree of compaction to be achieved.
      - describe the method of permanent embankment stabilization by establishing a permanent grass cover or other acceptable alternative.
      - The embankment material on the upstream and crest areas of the dam must be impervious and the downstream area may be pervious.

   c. outlet structure:
      Placement methods for outlet conduit(s) must be specified to assure adequate bedding preparation, seepage collar installation, and compaction effort to preclude settling and seepage.

   d. construction inspection:
      A licensed professional engineer shall inspect construction activities to approve the following:
      - foundation subgrade suitability and preparation;
      - embankment material gradation and suitability;
      - embankment material placement and compaction including finished slope of the embankment;
      - spillway and low-level outlet materials and installation;
      - core material suitability, gradation and placement, if applicable;
      - erosion/wave protection material (riprap) installation.

Attachment F: Flood Contingency Plan

Submit as Attachment F, a flood contingency plan consisting of a written description of the measures to be taken by the applicant during and after construction to protect life and property and to prevent pollution during significant rainfall events. A flood contingency plan consists of two parts:

1. **Construction Flood Contingency Operation Plan** - The purpose of this part of the plan is to ensure that, during construction, all structures, materials, and equipment will be anchored or restrained to prevent displacement, flotation or removed from the floodplain prior to a flood. The storm events that will adversely affect construction activities should be identified.

   Materials that are buoyant, hazardous, flammable, explosive, soluble, expansive or radioactive, or any other materials which could be injurious to human, animal or plant life in the event of a flood will be protected from flood damage, secured or removed from the floodplain to prevent pollution and hazards to life and property.

Flood contingency plans must identify contingency actions, procedures and specific time factors for informing persons at the project site at the onset of flooding, and for securing the site during floods. Include the name, address and telephone number of the person(s) responsible for implementing such plans.

2. **Post Construction Flood Contingency Operation Plan** - The purpose of this part of the plan is to protect people and property from flooding and flood hazards after construction has been completed and to prevent the pollution of waters of the state. Update the existing Emergency Action Plan (EAP) for Hazard Class C Dams (High Hazard Potential) and Hazard Class B Dams (Significant Hazard Potential) and Operations and Maintenance Plan for all hazard class dams to reflect the modifications proposed in the permit application. The above-mentioned updates may be submitted separately from the Dam Safety Permit Applications.

Attachment G: Alternatives Assessment

All permit applicants should submit as Attachment G, an alternatives assessment consisting of an analysis of alternatives to the proposed activity and documentation that the proposed activity is the least environmentally damaging alternative for fulfilling the basic objective(s) of the applicant. This analysis should consider alternatives which might enhance environmental quality or have a less detrimental effect on the environment than the proposed activity and must demonstrate that there is no feasible and prudent alternative that will have a less environmentally damaging effect.
An alternative is feasible if it is consistent with sound engineering principles. That is, if the applicant can successfully construct or implement the alternative, it is a feasible alternative. An alternative is prudent if it is economically reasonable in light of the benefits the activity would provide but cost alone does not render an alternative imprudent.
The analysis should evaluate at least the following alternatives:

- taking no action;
- postponing action pending further study;
- taking actions of a different nature; and
- conducting the proposed activity at a different location.

To support the analysis of alternatives, documentation must be provided that demonstrates that the proposed activity is:

- necessary;
- the least environmentally damaging design; and
- proposed to take place in the least environmentally damaging location.

This documentation must include, at a minimum, identification and analysis of alternative on-site configurations or designs and alternative off-site locations for the project, and the reasons, including environmental effects and cost factors for each alternative considered, why such alternative designs, configurations, and locations were rejected by the applicant. The on-site alternatives must be shown schematically on a drawing or plan in relation to the proposed activity.

Attachment H: Applicant Compliance Information Form

CGS section 22a-6m provides for DEEP review of an applicant's record of compliance with the environmental laws of Connecticut, any other state and the federal government. Under the law, DEEP may consider the applicant's environmental compliance record, as well as the record of the applicant's principals and any parent companies or subsidiaries, when reviewing a permit application. All permit applications for activities not previously permitted by DEEP must include a completed Applicant Compliance Information Form (DEEP-APP-002) as Attachment H.

Attachment I: Applicant Background Information

A completed *Applicant Background Information Form* (DEEP-APP-008) must be submitted as Attachment I for all permit applications.

Attachment J: Coastal Consistency Review

If applicable, include as Attachment J, a completed *Coastal Consistency Review Form for Dam Safety Activities*. See Part IV- Site Information of this document for reference.

Attachment K: Natural Diversity Data Base (NDDB)

A copy of the NDDB Determination response letter that has not expired, if applicable. Include a copy of any mitigation measures developed for this activity and approved by NDDB. Do *not* submit any NDDB Preliminary Site Assessments with your application. Be aware that you must renew your NDDB Determination if it expires before project work commences.

Attachment L: Fisheries Consultation Form

Submit an approved Fisheries Dam Consultation Form (DEEP-FISH-APP_006).

It is required that you submit the completed form prior to submitting the Dam Safety permit application to allow the review process to be more efficient. Instructions are included on the form.

The DEEP Fisheries Division will review this form, make a determination, and may make recommendations for the project.

Attachment M: Streamflow Release Determination

Submit a copy of the completed, returned Request for Determination of Stream Flow Release Requirement for Dam Safety Permit signed by staff of the Water Monitoring Program of DEEP Water Planning Unit.

Attachment N: Sediment Management Plan

If the project includes removal and management of sediment and/or soil, a Sediment Management Plan (Plan) must be submitted as Attachment N.

The Plan shall propose how the applicant plans to manage excess sediment and/or soil (excess dredged material) generated from the project. Management options for the excess dredged material include: reuse on-site and immediately upgradient of the dredging area; reuse at an alternative location either on-site or off-site; and disposal at a permitted facility At a minimum, the Plan shall include the volume and origin of the excess dredged material, a figure illustrating the location of the material to be removed including the horizontal and vertical limits, and a figure that illustrates the proposed upland location for the excess dredged material. If the excess dredged material is proposed to be reused on the upland at an off-site location, then the property owner's written permission to accept the excess dredged material must be included in the Plan. The Plan must be signed by a licensed environmental professional (LEP), unless otherwise directed by DEEP.

The LEP shall develop and implement a Sediment Sampling Plan that includes the collection of samples representative of the excess dredged material proposed to be reused on the upland; and shall include, at a minimum, volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), CT Extractable Total Petroleum Hydrocarbons (ETPH), metals, polychlorinated biphenyls (PCBs), and pesticide and herbicide analyses. Additional analyses may be required depending on surrounding land

uses and activities. The number of samples should be based on a general understanding of the environmental setting and potential variability in sediment quality, with a frequency in the range of 1 sample per 500 cubic yards (CY) to 1,000 CY of dredged material proposed to be reused. A minimum of 3 samples must be collected. Analytical results must be included in the Sediment Management Plan and shall be compared to criteria outlined in the Released-Based Cleanup Regulations (RBCRs) for evaluating reuse options. If the excess dredged material will be disposed of at an off-site permitted facility, the final disposal location and schedule for transportation to the disposal facility should be provided in the Plan. The disposal facility will have their own sampling and analysis requirements.

Attachment O: Potable Water Supply Plan

If applicable, submit a contingency plan that addresses potential impacts regarding the yield of residential wells directly affected by an authorized drawdown. This plan should include a public outreach meeting and correspondence with the local/ municipal health director.

Attachment P: Flood Management Documentation

Non-state funded projects – The applicant shall notify the Municipality about the proposed activities within the FEMA mapped 100-year floodplain and/or floodway. (Special Flood Hazard Area – SFHA)

Projects funded through the State – Please note that according to CGS section 22a-403(b), an applicant for a dam safety permit shall not be required to obtain approval of a certification under Section 25-68d. Information required under the Flood management statutes will be reviewed within the dam safety permit application. However, activities proposed within or affecting a floodplain, or that impact natural or man-made storm drainage facilities must conform with the state's flood management standards. Such activities include:

- any proposed structure, obstruction, encroachment or work in a floodplain or coastal high hazard area;
- any proposed construction or other development which affects drainage and stormwater runoff;
- any grant or loan administered by the state for a proposal that involves land use or land use planning within or affecting a floodplain; and
- the disposal of state lands or buildings located within a floodplain.

The Flood Management Statutes require state agencies to plan and carry out their activities so as to: avoid flooding and flood hazards, comply with the requirements of the National Flood Insurance Program and technical requirements of municipal floodplain regulations, consider flood-proofing and other practical alternatives to constructing flood and erosion control structures, promote long-term non-intensive uses of the floodplain, and locate utilities so as to discourage floodplain development. See "Available Resources" section at the end of these instructions for assistance in obtaining National Flood Insurance Program (NFIP) information.
Projects involving state action or state funding may be subject to public scoping under the Connecticut Environmental Policy Act (CEPA). CEPA requires an assessment for any state agency action (as defined in CGS section 22a-1c), including funding, that could have significant impact on Connecticut's environmental, social, or economic resources. Consult the funding agency to determine CEPA applicability and time frames.

Please submit the following documents as Attachment P.

- A brief supporting document of the available funds, the name of the funding source, and the name of the agency which will be administering the funds.

- Name of Contact within Agency
- Contact Information
- Flood Management Documentation Form
- CEPA documentation if applicable

The flood management certification requirements of CGS section 25-68d do not apply to any proposal by the Department of Transportation, the Department of Housing or the Department of Economic and Community Development for a project within a drainage basin of less than one square mile.

Attachment Q: Wetlands Impact Documentation

Complete and submit Water Resource Impact Table to quantify any Wetlands impact.

Attachment R: Soil Scientist Report

If wetlands or watercourses will be altered or otherwise affected, directly or indirectly, by the proposed activities, the wetlands must be delineated and their boundaries shown on application plans (Attachment D) and the applications must include a soil scientist report as Attachment R. The report must describe, in detail, the soils on the subject property and be consistent with the standards set by the National Cooperative Soil Survey of the United States Department of Agriculture, Natural Resources Conservation Service (NRCS) formerly known as the Soil Conservation Service. This report must include a map showing the soils on the subject property, a summary of the investigation performed, and the results of such investigation. The primary focus of the soils report is to identify soil-based constraints on development and to delineate the limits of wetlands and watercourses consistent with CGS subsection 15 and 16 of section 22a-38.

Attachment S: Environmental Report

Submit as Attachment S, a report and supporting documentation evaluating, as applicable, the effects of the proposed activity on wetlands (functions and values), fish and wildlife resources (habitats and populations), state and federal endangered and threatened species and state species of special concern, stream flows, state water quality standards and designated uses of waters of the state, public water supplies, wastewater treatment needs, the capacity of waters to assimilate wastes, ground water recharge/discharge, ground water availability, private and public water supply wells, agriculture, and water-based recreation.
The evaluation of project effects should be based upon but not limited to, the following as applicable:

- instream flow studies;
- vegetation surveys;
- wetland and soil delineations;
- wetland function and value assessments;
- systematic habitat and biological field sampling;
- habitat mapping and habitat evaluations;
- fish and wildlife surveys and population census;
- natural resource inventories, which include natural resource value and impact assessments;
- field surveys for the presence of state and federal species listed as endangered or threatened and for species listed by the state as species of special concern;

- water quality modeling and analyses;
- waste load allocation modeling and analyses;
- water quality testing and evaluations.

All data collection and studies must be performed in accordance with valid and accepted scientific methods, and should identify the following:

- the existing biological, ecological and geological characteristics of all potentially affected areas;
- the nature and extent of any short-term and long-term effects of the proposed activity on such characteristics; and
- the nature and extent of any cumulative effects of the proposed activity on such characteristics.

"Cumulative effects" means the effects of the proposed activity in conjunction with the effects of previous activities and any known future activities proposed in the area by the applicant or by others of record.
Regulated activities should be designed to avoid environmental impacts, and the environmental impacts that are unavoidable should be minimized. Where unavoidable impacts occur as a result of construction and/or operation of the proposed activity, mitigation for adverse impacts to wildlife, fish habitat, wetlands, watercourses, waterbodies and other natural resources should be incorporated into project plans.

Attachment T: Other Information

Submit as Attachment T, any other information deemed relevant by the applicant or required by DEEP.

Available Resources:

Below is a list of possible resources for specific information required for this application. Be sure to also check the DEEP website, Department of Energy and Environmental Protection and your local town hall or library for maps and other reference materials.

The DEEP File Room, 860-424-4180, is located on the basement level at 79 Elm Street, Hartford, CT. For general assistance regarding the subject permit application contact Dam Safety Program at 860-424-3706 or by email at DEEP.DamSafety@ct.gov. Please call the appropriate office in advance for hours of operation.

- Coastal Boundary Areas and Coastal Resource Maps: Town Hall and/or DEEP Store, deep.store@ct.gov, 860-424-3555; "Coastal Boundary Map".
  Additional information: DEEP LWRD: 860-424-3034
  - https://cteco.uconn.edu/map_catalog.asp
  - magic.lib.uconn.edu/connecticut_data.html#water
- DEEP Connecticut Coastal Management Manual
- Connecticut Stream Flow Standards and Regulations
- USGS Topographic Quadrangle Map:

Geographic Information Systems (ct.gov); DEEP Store, 860-424-3555, or USGS Office, 303-202-4700, or US Geological Survey, Western Distribution Branch, Box 25286, Denver Federal Center, Denver, CO 80225 (sells USGS maps and publications) www.usgs.gov

- Endangered or Threatened Species Areas: DEEP.RecordsCenter@ct.gov; "State and Federal Listed Species and Natural Communities";

  Endangered Species (ct.gov)

- Aquifer Protection Area Maps:
  Aquifer Protection Program,
  DEEP Store, 860-424-3555

- DEEP's Environmental Equity Policy, Environmental Justice Program, Environmental Justice Public Participation Guidelines: Environmental Justice (ct.gov)

- Pollution Prevention: A variety of pollution prevention publications are available from DEEP's Office of Pollution Prevention DEEP.pollutionprevention@ct.gov; 860-424-3297

- Aerial Photographs: DEEP LWRD 860-424-3034
  - CTECO internet site maintained by the University of Connecticut [https://maps.cteco.uconn.edu/]

- Historic Aerial Photographs:
  - State Library: 860-566-4301
  - Connecticut Historical Aerial Photography (Map & Geographic Information Center at UCONN) magic.lib.uconn.edu/

- Tidal Wetland Boundary Maps: DEEP Store, deep.store@ct.gov ,860-424-3555

- Wetlands of Connecticut: DEEP Store, deep.store@ct.gov ,860-424-3555

- National Wetland Inventory Maps: https://www.fws.gov/wetlands/, DEEP Store, 860-424-3555

- Connecticut Guidelines for Soil Erosion and Sediment Control

- Connecticut Stormwater Quality Management

- Drainage Basins: DEEP Maps and Publications, "Natural Drainage Basins in Connecticut", 1988; Geographic Information Systems (ct.gov)

- ConnDOT Drainage Manual

- Archeological or Historical Landmarks: Town Hall or Connecticut Historical Commission

- Connecticut State Historic Preservation

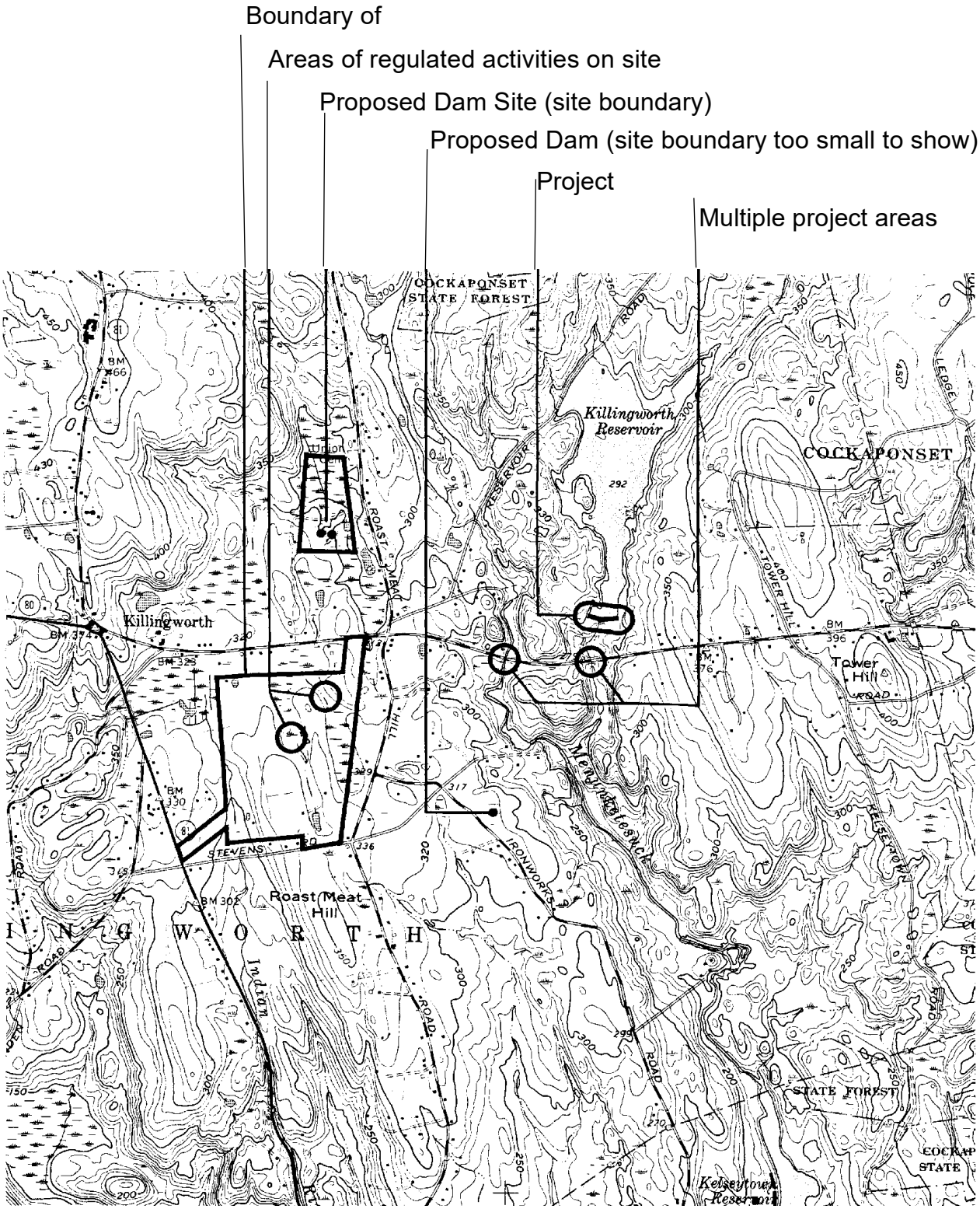
- Land Conservation Areas: Town Hall and/or DEEP Store, deep.store@ct.gov, 860-424-3555; "Open

Space Map”

- 401 Water Quality Certification
- DEEP Aquifer Protection Area Program
- DEEP Emergency Action Plans
- Guidelines for Inspection and Maintenance of Dams
- National Flood Insurance Program
- US Army Corps of Engineers
  - Regulatory Program
    https://www.usace.army.mil/Missions/Civil-Works/Regulatory-Program-and-Permits/
  - New England District, Regulatory Office
    696 Virginia Road
    Waltham, MA 02254
    Concord, MA 01742-2751
    www.usace.army.mil
    800-343-4789; 978-318-8335; 978-318-8338
- US Department of Agriculture, Natural Resource Conservation Service Web Soil Survey
- US Department of Homeland Security, FEMA Flood Map Service Center
- US Fish and Wildlife Service, National Wetlands Inventory Wetlands Mapper
- US Geological Survey Stream Stats
- State and federal statutes and regulations:
  - State Statutes: Legislative Commissioners' Office of the Connecticut General Assembly
  - DEEP website for Statutes and Regulations: Laws and Regulations (ct.gov)

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. Please contact DEEP Office of Diversity and Equity at (860) 418-5910 or by email at **deep.accommodations@ct.gov** if you are requesting a communication aid or service, have limited proficiency in English, need some other type of accommodation, or if you wish to file an ADA or Title VI discrimination complaint. In order to facilitate efforts to provide an accommodation, please request all accommodation as soon as possible following notice of any agency hearing, meeting, program or event.

Figure A: Dam Safety Example

USGS Quadrangle Map: Clinton
Map Scale: 1:24,000 (1"=2,000')