

ORIGINAL



Connecticut Department of Energy & Environmental Protection
Bureau of Water Protection & Land Reuse
Office of Long Island Sound Programs

DEPARTMENT OF ENVIRONMENTAL PROTECTION
CENTRAL PERMIT PROCESSING UNIT

JUN 29 2012

RECEIVED BY _____

Office of Long Island Sound General Permit Registration Form

Please complete this form in accordance with the instructions (DEP-LIS-GP-INST) to ensure the proper handling of your registration. Print or type unless otherwise noted. You must submit the registration fee along with this completed form.

- If your town has a Harbor Management Commission, you must submit a copy of this completed registration to the Commission. Please check here if to indicate you have done so.
- Please check here if your town does *not* have a Harbor management Commission.

CPPU USE ONLY	
App #:	<u>201205445</u>
Doc #:	<u>63591</u>
Check #:	<u>10513 \$700.00</u>
Program: Long Island Sound General Permits	
Registration #:	_____
Analyst Assigned:	_____

Part I: Registration Type and Fee Information

Check the appropriate box in the left column identifying the general permit type (check only one general permit type per registration form).

General Permit Type	Fees
<input type="checkbox"/> 4/40 Docks (DEP-LIS-GP-001)	\$700.00
<input type="checkbox"/> Non-Harbor Moorings (DEP-LIS-GP-003)	\$100.00
<input type="checkbox"/> Osprey Platforms and Perch Poles (DEP-LIS-GP-004)	None
<input type="checkbox"/> Residential Flood Hazard Mitigation (DEP-LIS-GP-005)	\$100.00
<input type="checkbox"/> Swim Floats (DEP-LIS-GP-007)	\$100.00
<input type="checkbox"/> Pump-out Facilities (DEP-LIS-GP-008) <i>Registration not required for CVA grant recipients</i>	\$100.00
<input checked="" type="checkbox"/> Coastal Remedial Activities Required by Order (DEP-LIS-GP-009)	\$700.00
<input type="checkbox"/> Removal of Derelict Structures (DEP-LIS-GP-011)	\$100.00
<input type="checkbox"/> Beach Grading (DEP-LIS-GP-012)	\$100.00
<input type="checkbox"/> Marina and Mooring Reconfiguration (DEP-LIS-GP-013)	\$700.00
<input type="checkbox"/> Dock Reconstruction (DEP-LIS-GP-015) <i>approval not required</i>	\$300.00

Part I: Registration Type and Fee Information (continued)

Please identify any previous or existing permit/certificate/registration or order numbers associated with the site where the activity is proposed. SRD-193

Town where site is located: Fairfield

Brief Description of Project: Hydraulic dredging, dewatering & disposal of lead-impacted river sediment

Fee Information: A non-refundable fee in the amount specified for each general permit is to be submitted with each registration that you are submitting. You may only register one general permit type per registration form. For municipalities, the 50% discount applies. The registration will not be processed without the fee. The fee shall be paid by check or money order to the Department of Energy and Environmental Protection.

If there are any changes or corrections to your company/facility or individual name, mailing or billing address or contact information, please complete and submit the Request to Change Company/Individual Information to the address indicated on the form. For any other changes you must contact the specific program from which you hold a current DEEP license. If there is a change in ownership, please contact the Permit Assistance Office for questions concerning license transfers at 860-424-3003.

Part II: Registrant Information

- **If a registrant 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, registrant's name shall be stated **exactly** as it is registered with the Secretary of State. Please note, for those entities registered with the Secretary of State, the registered name will be the name used by DEEP. This information can be accessed at CONCORD.*
- *If a registrant 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.).*

1. Registrant Name: Exide Group, Inc.

Mailing Address: 1213 Culbreth Drive c/o Landfall Executive Suites, LLC

City/Town: Wilmington

State: NC Zip Code: 28405

Business Phone: 910-509-7211

ext.: Fax:

Contact Person: K.L. Money

Phone: 910-509-7211 ext.

*E-mail: Ken.Money@Vale.com

*By providing this e-mail address you are agreeing to receive official correspondence from the department, at this electronic address, concerning the subject registration. Please remember to check your security settings to be sure you can receive e-mails from "ct.gov" addresses. Also, please notify the department if your e-mail address changes.

- a) Registrant Type (check one): individual *business entity federal agency
 state agency municipality tribal

*If a business entity:

- i) check type: corporation limited liability company limited partnership
 limited liability partnership statutory trust Other: _____

ii) provide Secretary of the State business ID #: _____ This information can be accessed at CONCORD

iii) Check here if you are **NOT** registered with the *Secretary of State*.

Check here if any co-registrants. If so, attach additional sheet(s) with the required information as requested above.

Part II: Registrant Information (continued)

b) Registrant's interest in property at which the proposed activity is to be located:

- site owner option holder lessee easement holder operator
 other (specify): _____

2. Billing contact, if different than the registrant.

Name:

Mailing Address:

City/Town:

State:

Zip Code:

Business Phone:

ext.:

Fax:

Contact Person:

Phone:

ext.

E-mail:

3. Primary contact for departmental correspondence and inquiries, if different than the registrant.

Name: **CCA, LLC**

Mailing Address: 40 Old New Milford Rd.

City/Town: Brookfield

State: CT

Zip Code: 06804

Business Phone: 203-775-6207

ext.:

Fax: 203-775-3628

Contact Person: Ralph Klass

Phone: 203-775-6207

ext. 16

*E-mail: ralphklass@ccaengineering.com

*By providing this e-mail address you are agreeing to receive official correspondence from the department, at this electronic address, concerning the subject registration. Please remember to check your security settings to be sure you can receive e-mails from "ct.gov" addresses. Also, please notify the department if your e-mail address changes.

4. Property Owner, if different than the registrant:]

Name:

Mailing Address:

City/Town:

State:

Zip Code:

Business Phone:

ext.:

Fax:

Contact Person:

Phone:

ext.

E-mail:

5. Engineer(s) or other consultant(s) employed or retained to assist in preparing the registration or in designing or constructing the activity.

Name: **CCA, LLC**

Mailing Address: 40 Old New Milford Rd.

City/Town: Brookfield

State: CT

Zip Code: 06804

Business Phone: 203-775-6207

ext.:

Fax: 203-775-3628

Contact Person: Ralph Klass

Phone: 203-775-6207

ext. 16

E-mail: ralphklass@ccaengineering.com

Service Provided: **Environmental Engineering**

Check here if additional sheets are necessary, and label and attach them to this sheet.

Part III: Site and Resource Information

1. SITE NAME AND LOCATION

Name of Site : **The Former Exide Battery Facility**

Street Address or Location Description: **2190 Post Rd. and adjacent +/- 4000 ft. stretch of Mill River**

City/Town: **Fairfield**

State: **CT**

Zip Code: **06824**

2. TAX ASSESSOR'S REFERENCE: Map 231

Block

Lot **381**

3. ENDANGERED OR THREATENED SPECIES: According to the most current "State and Federal Listed Species and Natural Communities Map", is the project site located within an area identified as a habitat for endangered, threatened or special concern species or located less than 1/2 mile upstream or downstream of such an area? Yes No Date of Map: **December 2011**

If yes, complete and submit a *Request for NDDB State Listed Species Review 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 registrant.**

A **copy** of the completed *Request for NDDB State Listed Species Review Form* and the CT NDDB response **must** be submitted with this completed registration as Attachment B.

For more information visit the DEEP website at www.ct.gov/dep/nddbrequests or call the NDDB at 860-424-3011.

Registrants for the following general permits are not required to complete item 4 concerning Aquifer Protection Areas: Non-Harbor Moorings, Osprey Platforms and Perch Poles, Residential Flood Mitigation, Swim Floats, Beach Grading and Dock Reconstruction

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

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

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

If your site is on a Level A map, check the DEEP website, Business and Industry Information (www.ct.gov/deep/aquiferprotection) to determine if your activity is required to be registered under the Aquifer Protection Area Program.

If your site is on a Level B map, 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.

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 registration to the holder of such restriction or a letter from the holder of such restriction verifying that this registration is in compliance with the terms of the restriction, must be submitted as Attachment C.

Part IV: Project Information (continued)

3. *For Registrants for the General Permit for Dock Reconstruction Only:*

- a. Will the commencement of work be initiated no later than 3 days after submitting this completed registration? Yes No
- If yes, this completed registration will serve as your notice of commencement, required in Attachment E of this registration form.
 - If no, you must submit a written notification of commencement of work no later than 3 days prior to the commencement to: Office of Long Island Sound Program, Department of Energy and Environmental Protection, 79 Elm Street, Hartford, CT. 06106-5127
- b. Is the dock currently in a serviceable state? Yes No
- c. If the dock is **not** currently in a serviceable state, identify the date of damage or casualty loss:

Continued on next page

Part V: Supporting Documents

Check the applicable box below for each attachment being submitted with this registration 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 registrant's name as indicated on this registration form.

The specific information required in each attachment is described in the *Instructions for Completing a General Permit Registration for the Office of Long Island Sound Programs* (DEP-LIS-GP-INST)

Registrants for the General Permit for Dock Reconstruction are not required to submit Attachment A.

- Attachment A: Project Plans, Vicinity Map, Tax Assessor's Map
- Provide plans of the project in Attachment A. The plans must be 8 ½" x 11" scaled plans of the site and proposed work including: a) Plan Views and b) An Elevation or Cross-Section View. *Please refer to instructions for identification of plan components.*
- Provide in Attachment A, a USGS topographic vicinity map. *Refer to the instructions for information on accurately delineating the project site.*
- Provide in Attachment A, a tax assessor's map. *Refer to the instructions for information on accurately delineating the project site.*
- Attachment B: Copy of the completed *Request for NDDDB State Listed Species Review Form* (DEP-APP-007) and the NDDDB response, if applicable.
- Attachment C: Conservation or Preservation Restriction Information, if applicable
- Attachment D: Any additional information relevant to the registration. In addition:
- *If the Registrant is not the property owner, include in Attachment D, documentation from the property owner acknowledging the proposed activity.*
 - *Registrants for the General Permit for Residential Flood Mitigation must include in Attachment D, copies of any municipal building permit, coastal site plan approval, or other legal authorization for the proposed residential flood hazard mitigation.*
 - *Registrants for the General Permit for Coastal Remedial Activities Required by Order must include in Attachment D, a remediation or restoration plan, if one has been prepared pursuant to the order.*
- Attachment E: *For Registrants for the General Permit for Dock Reconstruction Only:*
- *A copy of the prior authorization, including plans referenced in or otherwise approved with such authorization.*
- The following documents must be submitted at the applicable time:***
- *Written Notification of Commencement of Work, if applicable. See Part IV, 3a. of this registration form; and*
 - *Appendix A: Compliance Certification (DEP-LIS-REG-015A), when the work is completed (the form is attached).*

Part VI: Registrant Certification

The registrant *and* the individual(s) responsible for actually preparing the registration must sign this part. A registration will be considered incomplete unless all required signatures are provided.

"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 general permit registration is on complete and accurate forms as prescribed by the commissioner without alteration of the text.

I also certify that I have sent a copy of this completed registration to the local harbor commission, if applicable.

K.L. Money
Signature of Registrant

JUNE 22, 2012
Date

K.L. Money
Name of Registrant (print or type)

Vice President, EGI
Title (if applicable)

Ralph A. Klass
Signature of Preparer (if different than above)

6/22/12
Date

Ralph A. Klass
Name of Preparer (print or type)

Director of Environmental Eng.
Title (if applicable)

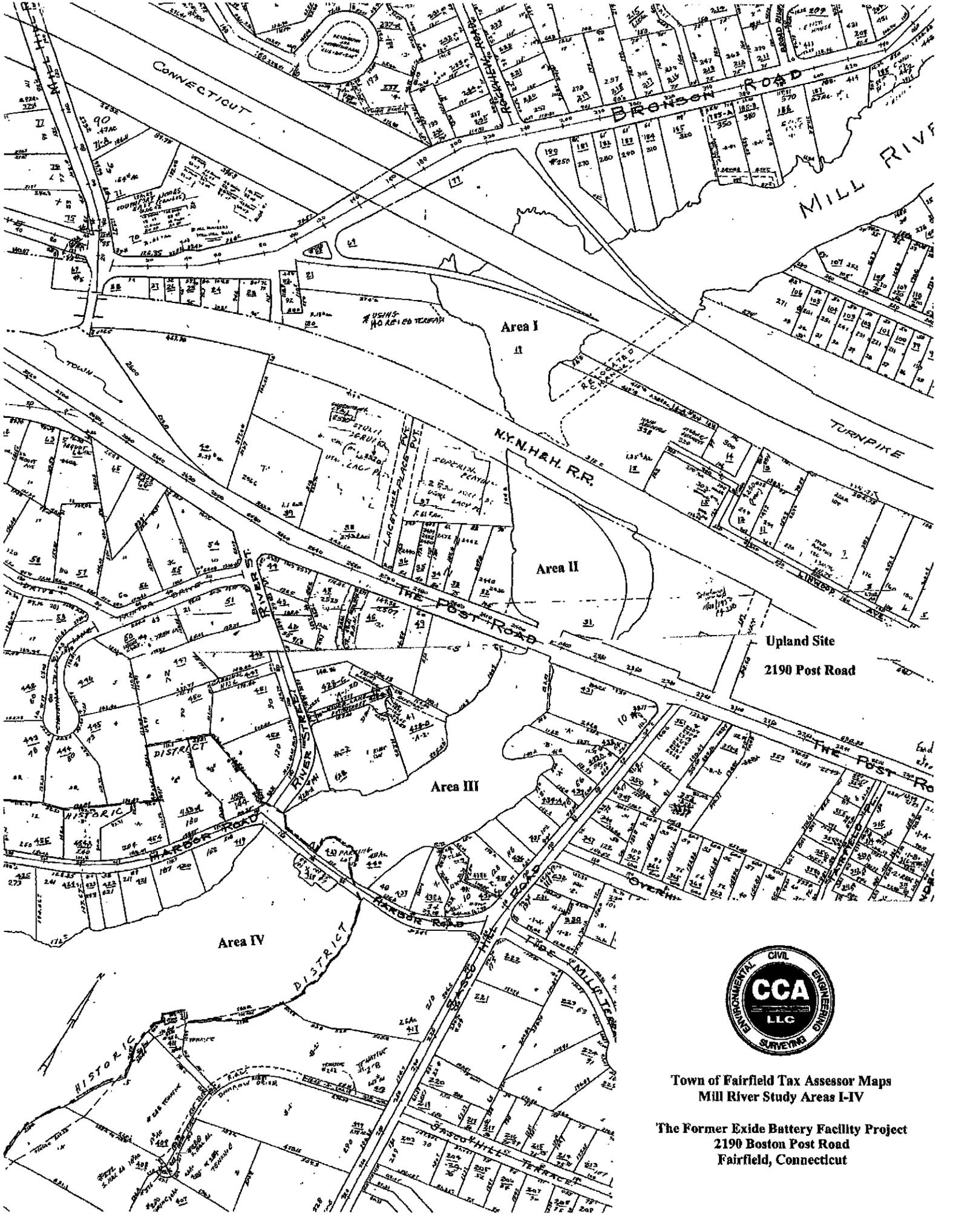
Check here if additional signatures are required. If so, please reproduce this sheet and attach signed copies to this sheet. You must include signatures of the property owner and any person preparing any report or parts thereof required in this registration (i.e., professional engineers, surveyors, soil scientists, consultants, etc.)

Note: Please submit the completed Registration Form, Fee, and all Supporting Documents to:

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

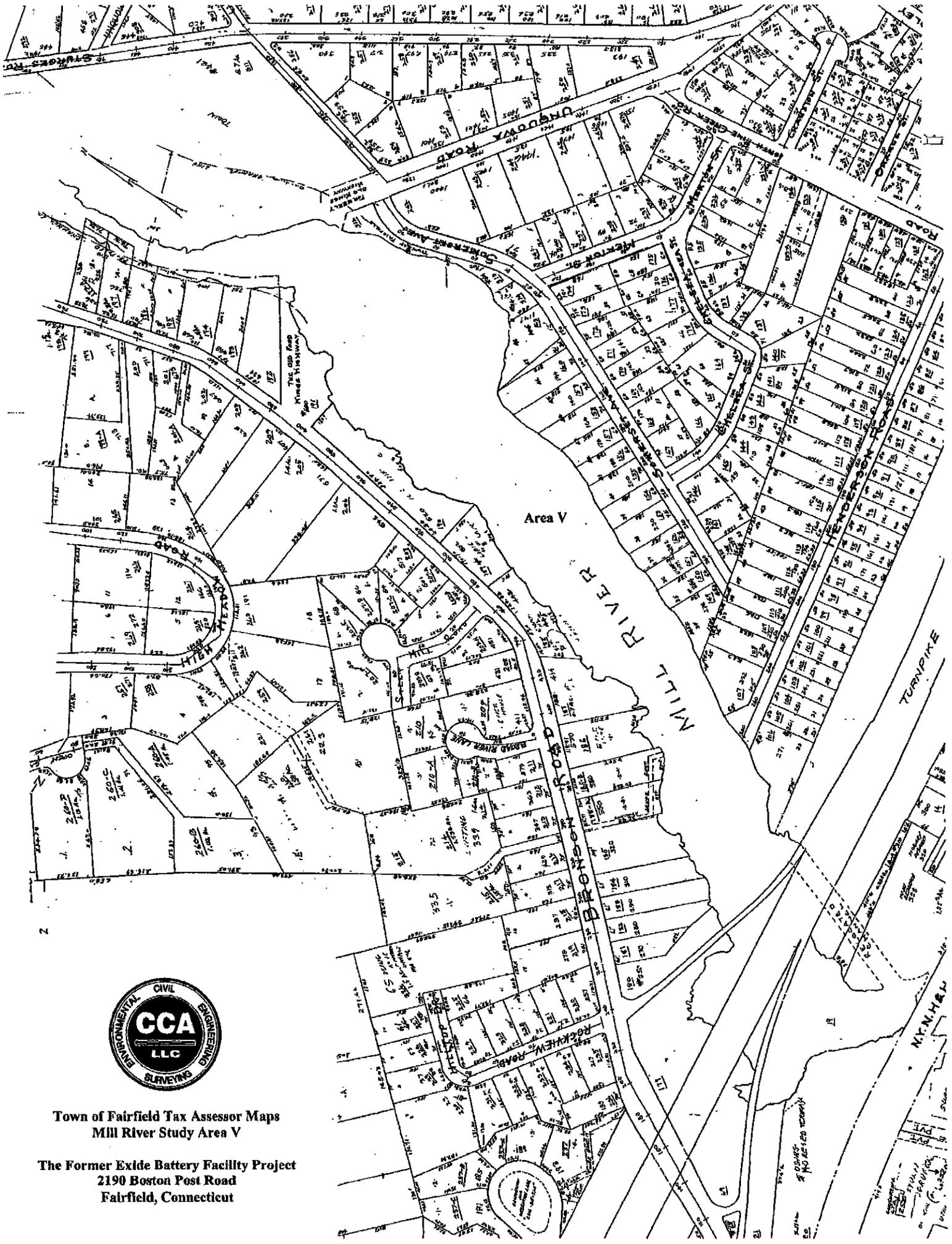
With the exception of the General Permit for Dock Reconstruction, please be aware that once you submit your registration, the work is not authorized until you receive an approval of registration or a letter of approval from the DEP. You must have these documents before initiating any work authorized under the subject general permit. For the General Permit for Dock Reconstruction, the department requires a written notification of commencement of work no later than 3 days prior to the commencement. See Part IV, 3a. of this registration form.

ATTACHMENT A: (See Attached SedRAP)



Town of Fairfield Tax Assessor Maps
 Mill River Study Areas I-IV

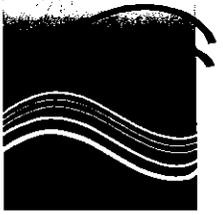
The Former Exide Battery Facility Project
 2190 Boston Post Road
 Fairfield, Connecticut



Town of Fairfield Tax Assessor Maps
Mill River Study Area V

The Former Exide Battery Facility Project
2190 Boston Post Road
Fairfield, Connecticut

ATTACHMENT B: CT NDDB Information



Connecticut Department of

**ENERGY &
ENVIRONMENTAL
PROTECTION**

May 9, 2012

Mr. Ralph Klass
CCA, LLC
40 Old New Milford Road
Brookfield, CT 06804
ralphklass@ccaengineering.com

Project: Dredging and Staging of Contaminated Sediment (Former Exide Battery Facility) in the Mill River in Fairfield, Connecticut

Request No.: 201203901

Dear Mr. Klass,

I have reviewed Natural Diversity Data Base maps and files regarding the area delineated on the map you provided for the proposed dredging and staging of contaminated sediment (from the former Exide Battery facility) in the Mill River in Fairfield, Connecticut. According to our information, there are records for State Special Concern *Alosa aestivalis* (blueback herring) in the Mill River which is in the vicinity of this project. Please be advised that a DEEP Fisheries Biologist will review state permit applications you may submit to DEEP regulatory programs to determine if your project could adversely affect blueback herring. DEEP Fisheries Biologists are routinely involved in pre-application consultations with regulatory staff and applicants in order to identify potential fisheries issues and work with applicants to mitigate negative effects, including state-listed species. If you have not already talked with a Fisheries Biologist about your project, you may contact the Permit Analyst assigned to process your state permit application for further information, including the contact information for the Fisheries Biologist assigned to review your application.

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 and cooperating units of DEEP, private conservation groups and the scientific community. This information is not necessarily the result of comprehensive or site-specific field investigations. Consultations with the Data Base should not be substitutes for on-site surveys required for environmental assessments. 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 Data Base as it becomes available.

Please contact me if you have further questions at (860) 424-3592, or dawn.mckay@ct.gov. Thank you for consulting the Natural Diversity Data Base. Also be advised that this is a preliminary review and not a final determination. A more detailed review may be conducted as part of any subsequent environmental permit applications submitted to DEEP for the proposed site.

Sincerely,

Dawn M. McKay
Environmental Analyst 3

Part II. Requester Information (continued)

2. List Primary Contact to receive Natural Diversity Data Base correspondence and inquiries, if different from requester.

Company: **CCA, LLC**

Contact Person: **RALPH KLASS**

Title: **DIR. OF ENV. ENGINEERING**

Mailing Address: **40 OLD NEW MILFORD ROAD**

City/Town: **BROOKFIELD**

State: **CT**

Zip Code: **06804**

Business Phone: **203-775-6207**

ext.

Fax: **203-775-3628**

E-mail: **RALPHKLASS@CCAENGINEERING.COM**

By providing this email address you are agreeing to receive official correspondence from the department, at this electronic address, concerning this request. Please remember to check your security settings to be sure you can receive emails from "ct.gov" addresses. Also, please notify the department if your e-mail address changes.

Part III: Site Information

This request can only be completed for one site. A separate request must be filed for each additional site.

1. SITE NAME AND LOCATION

Site Name or Project Name: **THE FORMER EXIDE BATTERY FACILITY**

Town(s): **FAIRFIELD, CT**

Street Address or Location Description:

A section of the Mill River, extending from +/-100ft south of Harbor Road. Northerly +/-4000ft to a point +/-1000ft south of Sturges Bridge. 2190 Post Road is the +/-6.23acre former facility (open field) to be used for staging and transfer.

Size in acres, or site dimensions: **See above**

Latitude and longitude of the center of the site in decimal degrees (e.g., 41.23456 -71.68574):

Latitude: **41.140463**

Longitude: **-73.274345**

Method of coordinate determination (check one):

GPS Photo interpolation using CTECO map viewer Other (specify):

- 2a. Describe the current land use and land cover of the site.

The section of Mill River is currently not used recreationally or commercially. The former Exide battery facility property is now a vegetated open field.

- b. Check all that apply and enter the size in acres or % of area in the space after each checked category.

<input checked="" type="checkbox"/> Industrial/Commercial +/- 6.23 acres	<input type="checkbox"/> Residential _____	<input type="checkbox"/> Forest _____
<input type="checkbox"/> Wetland _____	<input type="checkbox"/> Field/grassland _____	<input type="checkbox"/> Agricultural _____
<input checked="" type="checkbox"/> Water +/- 36 acres	<input type="checkbox"/> Utility Right-of-way _____	
<input type="checkbox"/> Transportation Right-of-way _____	<input type="checkbox"/> Other (specify): _____	

Part IV: Project Information

1. PROJECT TYPE:
 Choose Project Type: Dredging , If other describe: _____

2. Is the subject activity limited to the maintenance, repair, or improvement of an existing structure within the existing footprint? Yes No If yes, explain.
 DREDGING OF CONTAMINATED SEDIMENT.

3. Give a detailed description of the activity which is the subject of this request and describe the methods and equipment that will be used.
 The dredging of +/- 27,600 cu yds of lead-contaminated sediment. Hydraulic dredging methodology will be used, with sediments transported via pipeline to the site and dewatered via either mechanical dewatering or permeable textile bags; the filtrate being treated (if necessary) in holding tanks before returned to the river.

4. Provide a contact for questions about the project details if different from Part II primary contact.
 Name:
 Phone:
 E-mail:

Part V: Request Type and Associated Application Type

Check *one* box from either Group 1 or Group 2, indicating the appropriate category for this request.

Group 1. If you check one of these boxes, fill out Parts I – VII of this form and submit the required attachments A and B.

- Preliminary screening was negative but an NDDB review is still requested
- Request regards a municipally regulated or unregulated activity (no state permit/certificate needed)
- Request regards a preliminary site assessment or project feasibility study
- Request relates to land acquisition or protection
- Request is associated with a *renewal* of an existing permit, with no modifications

Group 2. If you check one of these boxes, fill out Parts I – VII of this form and submit required attachments A, B, and C.

- Request is associated with a *new* state or federal permit application
- Request is associated with modification of an existing permit
- Request is associated with a permit enforcement action
- Request regards site management or planning, requiring detailed species recommendations
- Request regards a state funded project, state agency activity, or CEPA request

If you are filing this request as part of a state or federal permit application enter the application information below.

Permitting Agency and Application Name:

COASTAL REMEDIAL ACTIVITIES REQUIRED BY ORDER

State DEEP Application Number, if known: _____

State DEEP Enforcement Action Number, if known: **CONSENT ORDER SRD-193**

State DEEP Permit Analyst/Engineer, if known: _____

Is this request related to a previously submitted NDDB request? Yes No

Enter the previous NDDB Request Number(s), if known: **NDDB FILE NO.17119, REQUEST NO, 201106245**

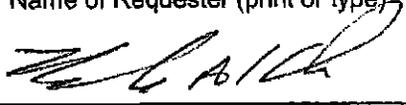
Part VI: Supporting Documents

Check each attachment submitted as verification that *all* applicable attachments have been supplied with this request form. Label each attachment as indicated in this part (e.g., Attachment A, etc.) and be sure to include the requester's name, site name and the date. **Please note that Attachments A and B are required for all requesters.** Attachment C (DEP-APP-007C) is supplied at the end of this form.

<input checked="" type="checkbox"/> Attachment A:	Overview Map: an 8 1/2" X 11" print/copy of the relevant portion of a USGS Topographic Quadrangle Map clearly indicating the exact location of the site.
<input checked="" type="checkbox"/> Attachment B:	Detailed Site Map: fine scaled map showing site boundary details on aerial imagery with relevant landmarks labeled. (Site boundaries in GIS [ESRI ArcView shapefile, in NAD83, State Plane, feet] format can be substituted for detailed maps, see instruction document)
<input checked="" type="checkbox"/> Attachment C:	Supplemental Information, Group 2 requirement (attached, DEP-APP-007C) <input checked="" type="checkbox"/> Section i: Supplemental Site Information and supporting documents <input checked="" type="checkbox"/> Section ii: Supplemental Project Information and supporting documents

Part VII: Requester Certification

The requester *and* the individual(s) responsible for actually preparing the request must sign this part. A request will be considered incomplete unless all required signatures are provided.

<p>"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."</p>	
Signature of Requester	Date
K.L. MONEY	VICE PRESIDENT
Name of Requester (print or type)	Title (if applicable)
	4/16/12
Signature of Preparer (if different than above)	Date
RALPH A. KLASS	DIR. OF ENV. ENGINEERING
Name of Preparer (print or type)	Title (if applicable)

Note: Please submit the completed Request Form and all Supporting Documents to:

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

Or email request to: dep.nddbrequest@ct.gov

Attachment C: Supplemental Information, Group 2 requirement

Section i: Supplemental Site Information

1. Existing Conditions

Describe all natural and man-made features including wetlands, watercourses, fish and wildlife habitat, floodplains and any existing structures potentially affected by the subject activity. Such features should be depicted and labeled on the site plan that must be submitted. Photographs of current site conditions may be helpful to reviewers.

SEE ATTACHMENT C-i

- Site Photographs (optional) attached
- Site Plan/sketch of existing conditions attached

2. Biological Surveys

Has a biologist visited the site and conducted a biological survey to determine the presence of any endangered, threatened or special concern species Yes No

If yes, complete the following questions and submit any reports of biological surveys, documentation of the biologist's qualifications, and any NDDB survey forms.

Biologist(s) name:

Habitat and/or species targeted by survey:

Dates when surveys were conducted:

- Reports of biological surveys attached
- Documentation of biologist's qualifications attached
- NDDB Survey forms for any listed species observations attached

Section ii: Supplemental Project Information

1. Provide a schedule for all phases of the project including the year, the month and/or season that the proposed activity will be initiated and the duration of the activity.

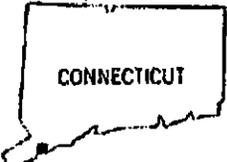
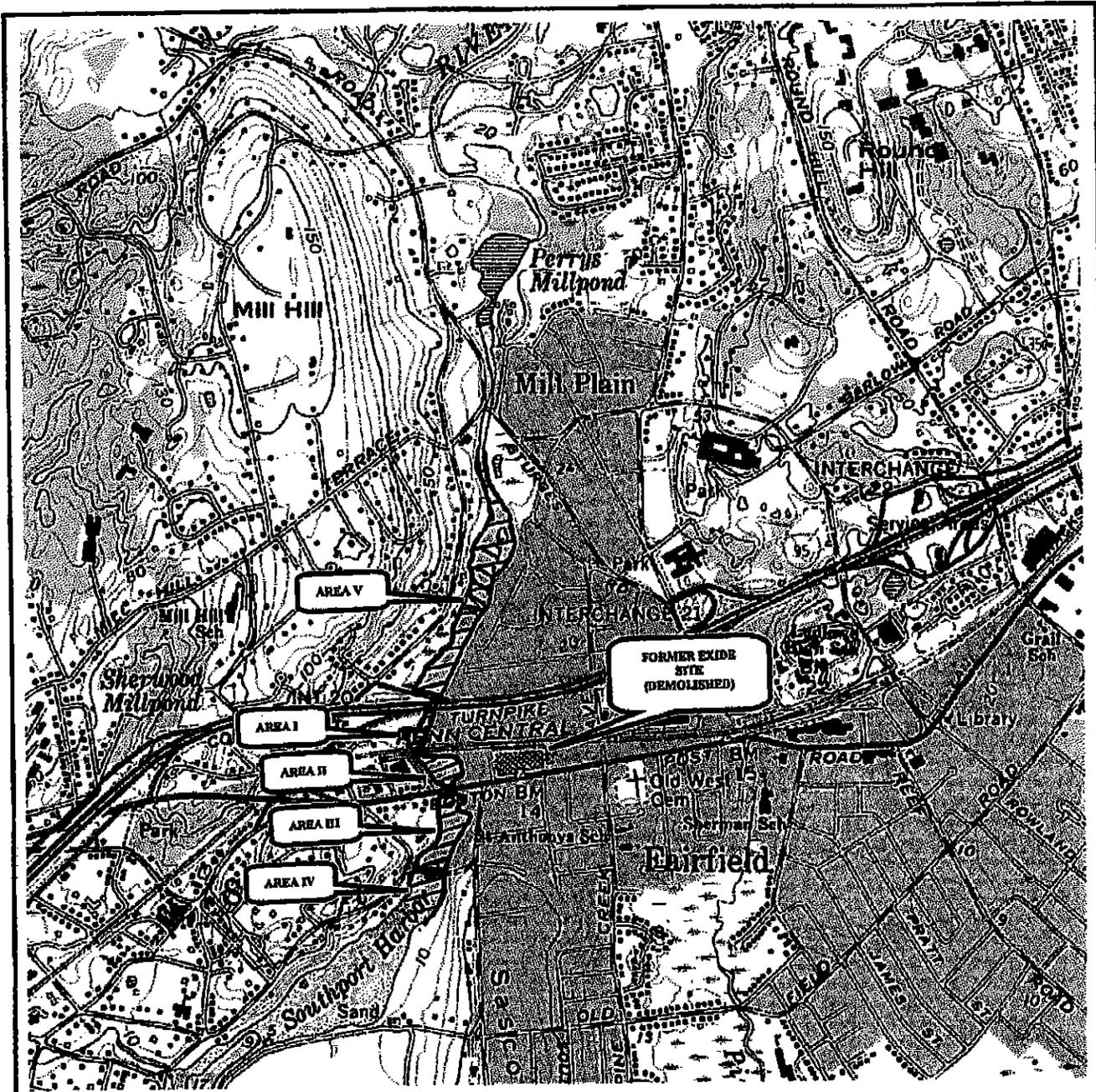
Dredging/dewatering activities will commence in August/September 2012 and shut down for winter in November 2012. Dredging/dewatering and off-site transport of sediments will re-start during March 2013 and come to completion by June 2014

2. Describe and quantify the proposed changes to existing conditions and describe any on-site or off-site impacts. In addition, provide an annotated site plan detailing the areas of impact and proposed changes to existing conditions.

The following volumes of in-situ sediment will be removed from the following River Study Areas: Area I: 5,215 cu. yds; Area II: 6,590 cu. yds; Area III: 7,832 cu. yds; Area IV: 1,156 cu. yds; and Area V: 6,786 cu. yds., for a total of 27,578 cu. yds. of in-situ sediment. Impacts include the destruction of benthic habitat, and the possibility of resuspension of contaminated sediments. Dredged material will be managed on the upland parcel (2190 Post Road) for off-site disposal.

- Annotated Site Plan attached

ATTACHMENT A
OVERVIEW MAP



CONNECTICUT

QUADRANGLE LOCATION
 FIGURE TAKEN FROM THE
 WESTPORT, CONN
 U.S.G.S. TOPOGRAPHIC
 QUADRANGLE MAP
 (PHOTO TAKEN 1971
 PHOTOREVISED 1974)

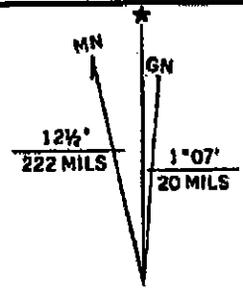
**SITE LOCATION PLAN
 MILL RIVER
 FAIRFIELD, CONNECTICUT**



40 Old New Milford Road
 Brookfield, CT 06804
 (203) 775-6207
 FAX (203) 775-3628

33 Village Green Drive
 Litchfield, CT 06759
 (860) 567-3179
 FAX (860) 567- 1716

Date: 3/28/08
 Project Number 8014
 Analyst: J.A.B
 Scale: 1"=1500'



UTM GRID AND 1971 MAGNETIC NORTH
 DECLINATION AT CENTER OF SHEET

ATTACHMENT B
DETAILED SITE MAP



Figure 2 MILL RIVER SEDIMENT STUDY AREA

EXIDE GROUP INCORPORATED
FAIRFIELD, CONNECTICUT

LEGEND:
★ STORM-WATER OUTFALL (AS FIELD LOCATED DURING JAN. 2009 SURVEY)

⬇ WETLANDS AREA

IMAGE SOURCE:
TOWN OF FAIRFIELD PLANNING AND ZONING COMMISSION, FAIRFIELD CT
AERIAL HIGH RESOLUTION TRUE COLOR COASTAL IMAGERY (SEPTEMBER 2004)

Date	6/27/00	
Scale	1" = 400' +/-	
Proj. No.	8014	
File No.	8014	
Acad. No.	ACAD	
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ATTACHMENT C
SUPPLEMENTAL INFORMATION

ATTACHMENT C-I
EXISTING CONDITIONS

ATTACHMENT C-I

Exide Group, Inc – c/o Vale

Attachment C: Supplemental Information, Group 2 requirement

Section i: Supplemental Site Information

1. Existing Conditions

Describe all natural and man-made features including wetlands, fish and wildlife habitat, floodplains and any existing structures potentially affected by the subject activity. Such features should be depicted and labeled on the site plan that must be submitted, Photographs of current site conditions may be helpful to reviewers.

A habitat survey of the study area was conducted in June 2001 by trained wildlife biologists from Woodlot Alternatives. The study area contains three main habitats: aquatic bed habitat, emergent vegetation habitat and open water habitat that will be affected by dredging operations. Below is a short description of the habitats and lists of common species that will be affected by dredging operations.

As shown on Figures 1 and 2, aquatic bed habitat is prevalent in Areas I, II, III, and V. Area V has the largest area of aquatic bed habitat. Adjacent to the dam, in Area III, the aquatic vegetation consisted primarily of hollow green algae (*Entromorpha* sp.). In Areas I and II, hollow green algae co-dominant with horned pondweed (*Zannichellia palustris*). Horned pondweed is the dominant vegetation in Area V. These areas are habitats for invertebrates, such as juvenile blue crabs (*Callinectes sapidus*), grass shrimp (*Palaemonetes pugio*) and scuds (*Gammarus* sp.), as well as fish, such as mummichogs (*Fundulus heteroclitus*), four-spined sticklebacks (*Apeltes quadracus*), and seasonally migrating fish, such as blue fish (*Pomatomus saltatrix*) and striped bass (*Roccus saxatilis*), that use these habitats for shelter or while foraging for food. This habitat is also utilized by mallards (*Anas platyrhynchos*), Canada geese (*Branta canadensis*), mute swans (*Cygnus olor*), Black-crowned night-herons (*Nycticorax nycticorax*), snowy egrets (*Egretta thula*), great blue herons (*Ardea herodias*), and green herons (*Butorides virescens*).

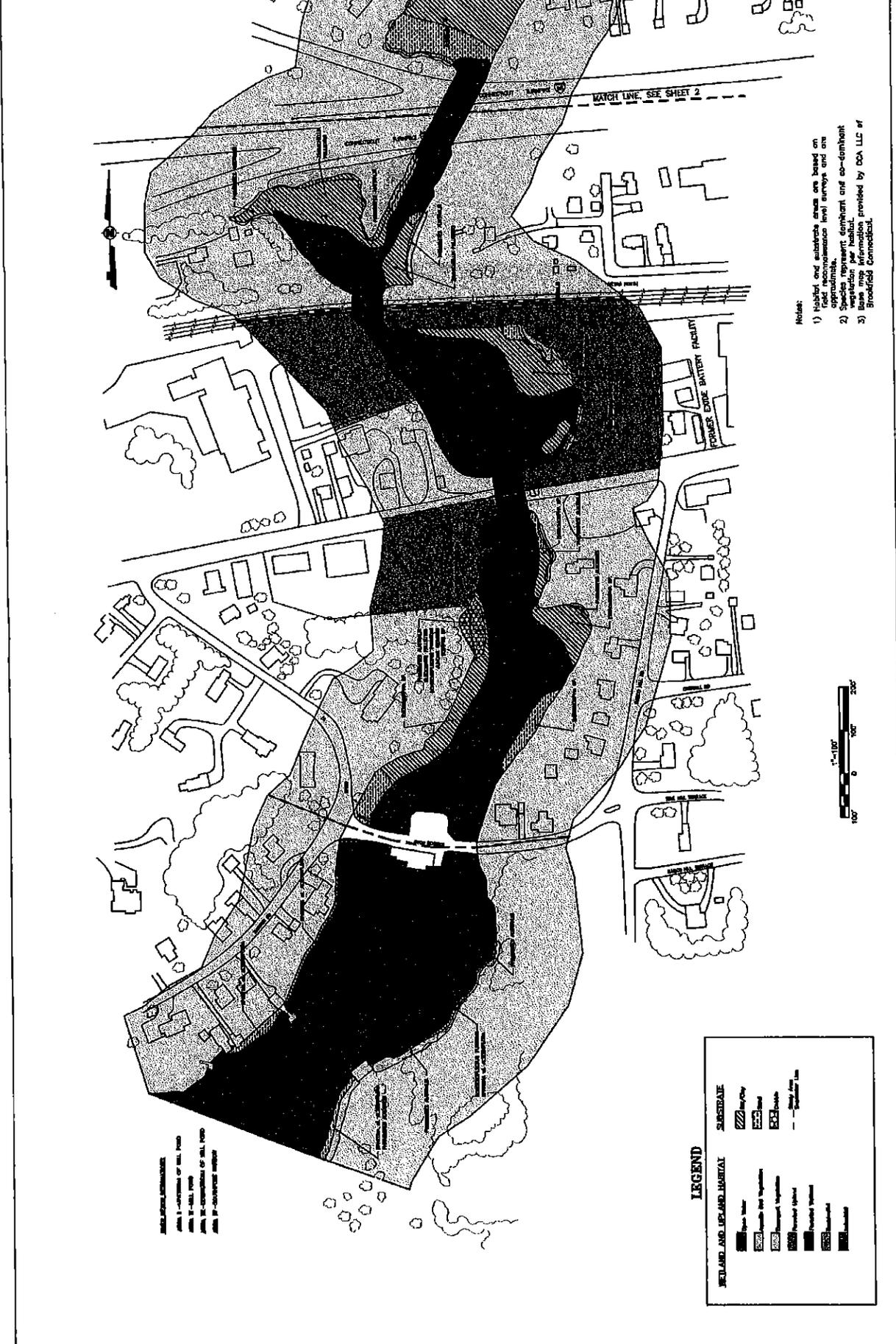
Emergent vegetation habitat is present in all five areas of the Site (Figures 1 and 2). Area I has the largest area of emergent vegetation and is dominated by the common reed, *Phragmites*. Emergent vegetation in the area above the dam consisted mainly of common reed (*Phragmites australis*), with small amounts of cattail (*Typha angustifolia*), and yellow iris (*Iris pseudacorus*). The emergent

vegetation in Area IV consisted primarily of cordgrass (*Spartina cf. alterniflora*) and common reed. Ribbed mussels (*Geukensia demissa*) were observed utilizing the cordgrass as attachment sites in Area IV. Atlantic marsh fiddler crab (*Uca pugnax*) and scuds were observed burrowing among the cordgrass root system in Area IV. Bird species that may utilize emergent vegetation habitat include mute swans, mallards, Canada geese, marsh wren (*Cistothorus palustris*), yellow warbler (*Dendroica petechia*), common yellowthroat (*Gethylps trichas*), red-winged blackbird (*Agelaius phoeniceus*), spotted sandpiper (*Actitis macularia*), mourning dove (*Zenaida macroura*), song sparrow (*Melospiza melodia*), and common grackle (*Quiscalus quiscula*).

Open water habitat is present in all five areas of the Site (Figures 1 and 2). Areas II, III, and IV have the largest areas of open water habitat. Areas of open water habitat are utilized by blue fish and striped bass. Bird species that may utilize open water habitat for feeding include osprey (*Pandion haliaetus*), ring-billed gull (*Larus delawarensis*), herring gull (*Larus argentatus*), great black-backed gull (*Larus marinus*), belted kingfisher (*Ceryle alcyon*), tree swallow (*Tachycineta bicolor*), bank swallow (*Riparia riparia*), northern rough-winged swallow (*Stelgidopteryx serripennis*), barn swallow (*Hirundo rustica*), and purple martin (*Progne subis*).

SITE PLAN OF EXISTING CONDITIONS

PROJECT NO.	1
DATE	June 2001
SCALE	1"=100'
PROJECT NAME	Mill River HERA Study Area Habitats
LOCATION	Patfield, Connecticut
DATE SURVEYED	June 4-6 2001
PROJECT NO.	WOODLOT ALTERNATIVES INC. 122 LAW STREET, DEPT. 1000, NEW BRITAIN, CT 06103



Note:
 1) Habitat and substrate areas are based on topographic and stream channel level surveys and on field observations of vegetation.
 2) Species represent dominant and co-dominant vegetation per habitat.
 3) Base map information provided by DCA LLC of Storrsford, Connecticut.

LEGEND

WETLAND AND RIPARIAN HABITAT	
[Symbol]	Open Water
[Symbol]	Emergent Wetland
[Symbol]	Shrub Wetland
[Symbol]	Forest Wetland
[Symbol]	Wetland
[Symbol]	Riparian
[Symbol]	Substrate
[Symbol]	Open Water
[Symbol]	Emergent Wetland
[Symbol]	Shrub Wetland
[Symbol]	Forest Wetland
[Symbol]	Wetland
[Symbol]	Riparian
[Symbol]	Substrate

Habitat and substrate areas are based on topographic and stream channel level surveys and on field observations of vegetation. Species represent dominant and co-dominant vegetation per habitat. Base map information provided by DCA LLC of Storrsford, Connecticut.

ATTACHMENT D: (See attached SedRAP)

ATTACHMENT I
PART III-8

A tide gate is in place across the river at Harbor Rd.; therefore river waters north of the tide gate (Areas I, II, III, and V) do not vary significantly in elevation. Area IV experiences a higher water elevation difference between tides, being fully subject to tidal influences. See table below for Mill River water elevations.

Study Area	Time Period	High Water Elevation	Low Water Elevation	Mean Water Elevation
AREA I	12/3-12/4/08	2.24	2.02	2.14
AREA II	11/21-12/2/08	3.31	1.81	2.28
AREA III	11/10-11/21/08	4.07	2.09	2.44
AREA IV	10/27-11/6/08	2.97	-4.44	-1.76
AREA V	12/8/08-3/20/09	5.69*	1.89	2.79

Notes:

Elevations based on NGVD 1929 datum. Readings taken with GPS instrument over different stages of tide cycle during 2008-2009 river sediment sampling.

* = recorded during a coastal flood event

ATTACHMENT II: Part III-9

Exide Group, Inc – c/o Vale

Part III: Site and Resource Information (continued)

9. Identify all aquatic (coastal) resources on and adjacent to the site and describe the characteristics and condition of each resource. (Identify the location of resources on plans submitted.)

The following submitted by Exponent, 2011:

Intertidal Flats- During low tide intertidal flats are present in Area IV (Southport Harbor). Due to the dam present along Harbor Road, the downstream portion of Areas I, II, III and V do not drain completely during low tide, and subtidal areas are not exposed. Despite residential, commercial and industrial development along the Mill River, the flats in Area IV are functional and provide habitat for shellfish.

Tidal Wetlands-There is a forested wetland in the northern portion of Area V, Mill Hollow Park (Figure 2). This area is functional and not impacted by development. There are fragmented areas of emergent vegetation wetlands along the entire study area (Figures 1 and 2). Most of these wetlands are in parts of Areas I, II and III that will likely undergo remediation.

Watercourses-The open water habitat is present in all five areas of the Site (Figures 1 and 2). A dam constructed at the downstream reach of Area III impounds water in Areas I, II, III and V. Therefore, while the study area receives some tidal influence, it no longer receives the twice-daily flushing from Southport Harbor to the extent that it once occurred. The dam also limits the use of the river by anadromous and catadromous fish. The CTDEEP water quality classification of the Mill River is SB, with a goal of SA. Class SB coastal and marine surface water are designated for use as habitat for marine fish, other aquatic life, and wildlife; commercial shellfish harvesting; recreation; industrial water supply; and navigation. Similar uses are designated for Class SA coastal and marine waters, except that they are designated for shellfish harvesting for direct human consumption.

Near shore Waters- The Mill River empties into the near shore water of Long Island Sound through Southport Harbor. Although Southport Harbor is heavily developed, the near shore waters do provide habitat for shellfish, fish and wildlife.

Shorelands- The shorelands of Long Island Sound near Mill River are heavily developed, but do provide habitat for shellfish, fish and wildlife.

Shellfish Concentration Areas-The dam downstream of Area III limits the tidal influence from Southport Harbor. Shellfish are found in Southport Harbor and to a lesser extent in Areas I, II, and III. The Mill River-Southport Harbor shellfish resource area supports high and well-balanced populations of hard and softshell clams as well as significant populations of oysters. These are natural shellfish grounds for public use. However, contamination of river sediment caused by past industrial discharges is a concern, and the Fairfield Health Department prohibits collection of shellfish from the area of the river between I-95 and Tide Mill Dam (Areas I, II and III).

Wildlife Resources and Habitat-As described above, wildlife and their habitat are present throughout the study area. Important wildlife habitats include the emergent vegetation that fringe Areas I, II, III, IV and V as well as the extensive aquatic bed in Areas V. The emergent vegetation in Areas I, II, III and V is dominated by *Phragmites australis* (common reed). Higher quality emergent vegetation is present in Area IV, where *Spartina alterniflora* (cord grass) dominates the marsh vegetation.

Benthic (bottom) Habitat-This habitat is present throughout the study area. However, the emergent vegetation and submerged aquatic vegetation areas shown on Figures 1 and 2 likely provide better habitat for benthic organisms than do open water habitats. Studies conducted as part of the ecological risk assessment of the Mill River found that the benthic invertebrate community was potentially affected by the presence of elevated lead in sediment. The areas of elevated lead concentrations in sediment are the target of the sediment remediation project and will be removed.

Indigenous aquatic life, including shellfish and finfish-Studies conducted as part of the ecological risk assessment of the Mill River found that benthic invertebrate community, fish and plant-eating birds were potentially affected by the presence of elevated lead in sediment. The areas of elevated lead concentrations in sediment are the target of the sediment remediation project and will be removed.

Submerged aquatic vegetation- Hollow green algae and horned pondweed are prevalent in Areas I, II, III, and V (Figures 1 and 2). Area V has the largest area of aquatic bed habitat (Figure 2). Observations made during the ecological risk assessment indicated abundant growth of species and no apparent stress related to contaminants.

WETLAND AND UPLAND HABITAT		SUBSTRATE	
	Open Water		Sand
	Emergent Wetland		Gravel
	Forested Wetland		Silt/Clay
	Shrubland Wetland		Rock
	Upland Forest		Bare Soil
	Upland Shrubland		Other
	Upland Meadow		
	Upland Pasture		
	Upland Field		
	Upland Barren		
	Upland Bare		

LEGEND

AREA 1 - WETLAND OF MILL RIVER
 AREA 2 - UPLAND PASTURE
 AREA 3 - UPLAND FIELD
 AREA 4 - UPLAND BARREN
 AREA 5 - UPLAND BARE



- Note:
- 1) Habitat and substrate areas are based on field reconnaissance level surveys and one year old aerial photography.
 - 2) Vegetation per habitat.
 - 3) Base map information provided by CCA, LLC of Brookfield Connecticut.

PREPARED BY WOODLOT ALTERNATIVES, INC. 122 MAIN STREET, BROOKFIELD, CONNECTICUT 06804 www.woodlot.com	PROJECT: Mill River HHERA Study Area Habitats	SHEET TITLE: Study Area I-IV Surveyed June 4-8 2001			
	ADDRESS: Fairfield Connecticut	SCALE: 1"=100'	DATE: June 2001	NO.	REVISED

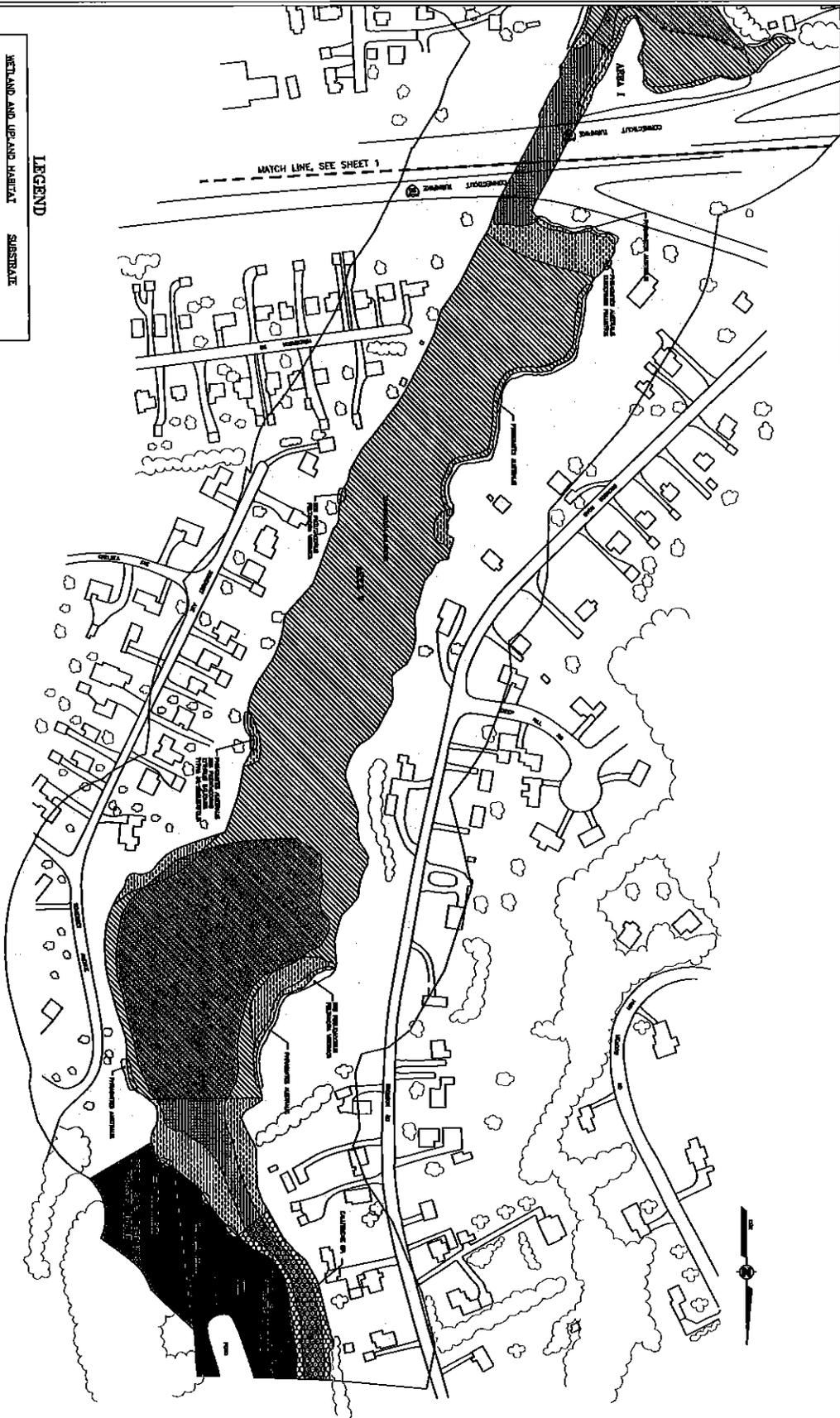
WETLAND AND UPLAND HABITAT

- Open Water
- Aquatic Plant Vegetation
- Emergent Vegetation
- Forest Upland
- Rural Upland
- Industrial
- Urban

SUBSTRATE

- Gravel
- Sand
- Silt/Clay
- Clay
- Bedrock
- Shale
- Sandstone
- Limestone

LEGEND



Notes:

- 1) Habitat and substrate areas are based on field reconnaissance level surveys and are approximate.
- 2) Vegetation dominant and co-dominant vegetation per habitat.
- 3) Base map information provided by CDA LLC of Brookfield Connecticut.

PREPARED BY: WOODPLOT ALTERNATIVES, INC. 122 MAIN STREET, TOPSHAM, MAINE 04086 www.woodplot.com	PROJECT: Mill River HHERA Study Area Habitats	SHEET TITLE: Study Area V Surveyed June 4-6 2001	NO.	REVISIONS	DATE
	ADDRESS: Fairfield Connecticut	SCALE: 1"=100'	DATE: June 2001		